Cargo and Industrial Real Estate

Truck Drayage Charging Depot Operator

REQUEST FOR PROPOSALS

THE PORT OF LOS ANGELES

January 29, 2024

RAMP ID #212512

January 29, 2024

Prospective Consultants:

SUBJECT: REQUEST FOR PROPOSALS FOR TRUCK DRAYAGE CHARGING DEPOT OPERATOR

The City of Los Angeles Harbor Department (Harbor Department) invites the submittal of proposals from qualified proposers to lease, operate, and maintain a truck drayage charging depot. These services shall commence after a contract is approved by the Board of Harbor Commissioners.

Instructions and forms to be used in preparing the proposal are found in the information included in the Request for Proposals (RFP).

The schedule for this RFP will be as follows:

Request for Proposals Published	Monday, January 29, 2024
Questions and Comments Due	Tuesday, February 20, 2024 by 3pm
Responses Posted	Tuesday, February 27, 2024
Proposals Due	Tuesday, March 5, 2024 by 3pm

If your firm cannot agree to the requirements exactly as set forth in this RFP, please do not submit a proposal.

For questions regarding this RFP, please contact Tanisha Herr by email at THerr@portla.org. Questions must be submitted by 3pm on Tuesday, February 20, 2024. Responses will be posted on the Regional Alliance Marketplace for Procurement (RAMP), at www.rampla.org, by Tuesday, February 27, 2024. It is the responsibility of all proposers to review the Port's website for any RFP revisions or answers to questions prior to submitting a proposal in order to ensure their proposal is complete and responsive.

In addition to providing information requested in this RFP, it should be noted that there are administrative documents that must be submitted with the proposal. Please refer to the Contract Administrative Requirements section of this RFP. **In order for your proposal to be deemed responsive, these documents MUST be included with your proposal.**

Proposer **MUST** also include an acknowledgement in its cover letter that submittal of a proposal constitutes a covenant to sign the Term Permit as attached, and that any deviations from that covenant will invalidate the proposal. In order for your proposal to be deemed responsive, this covenant **MUST** be included, exactly as written here, with your proposal. See Section 2.6.

All consultants and subconsultants must be registered on RAMP at the time proposals are due. If selected for award, for-profit companies and corporations must comply with RAMP's demographic reporting requirements, per the Mayor's Executive Directive 35.

Sincerely,

Tanisha Herr for
TRICIA J. CAREY
Director, Contracts and Purchasing Division

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1. INTRODUCTION

1.1 Brief Overview of the Project

The Cargo and Industrial Real Estate Division of the City of Los Angeles (City) Harbor Department (Harbor Department) is soliciting proposals from qualified entities to design, build, finance, operate and maintain publicly accessible electric vehicle heavy-duty drayage truck charging facility at two lots located at East I Street and Alameda Street in Wilmington, California. The facility would be specifically designated for battery-electric drayage trucks. See Exhibit A.

The Agreement arising from this solicitation (i.e. Term Permit) will have a term of ten years, plus two, five-year options exercisable by the successful Proposer subject to payment of an extension option fee. The commencement date will be determined by the terms of the Agreement and only after all City approvals are secured. More specifically, the effectiveness of the Agreement is subject to the full completion of all review and approval processes required by the City Charter and Administrative Code, inclusive of approval by the Board of Harbor Commissioners and Los Angeles City Council.

Except as noted herein, all leasing and development costs would be borne by the successful Proposer. Proposers are expected to make a rent offer for the right to use and occupy the property in an amount not less than fair market rental value. Grant funding opportunities may be available from public agencies; conditions and restrictions may apply. See Section 2.7 for details.

1.2 The Port of Los Angeles

The Port of Los Angeles is America's Port®, the nation's premier gateway for international commerce and the busiest seaport in the Western Hemisphere. Located in San Pedro Bay, 25 miles south of downtown Los Angeles, the Port encompasses 7,500 acres of land and water along 43 miles of waterfront.

The Port features both passenger and cargo terminals, including cruise, container, automobile, breakbulk, dry and liquid bulk, and warehouse facilities that manage billions of dollars' worth of cargo each year. One of the world's busiest seaports and leading gateway for international trade in North America, the Port of Los Angeles has ranked as the number one container port in the United States each year since 2000. In 2023, the Port handled a total of 8.6 million container units, its second busiest calendar year on record.

The Port of Los Angeles is a department of the City of Los Angeles (also known as the Los Angeles Harbor Department) and is governed by the Los Angeles Board of Harbor Commissioners, a panel appointed by the Mayor of Los Angeles. Although the Port is a City department, it is not supported by City taxes. Operating as a landlord port with more than 200 leaseholders, the Port instead generates its revenues from leasing and shipping service fees. The Port's jurisdiction is limited to the Harbor District, which includes property in San Pedro, Wilmington, and Terminal Island.

2. DESCRIPTION

2.1 Project Goals and Objectives

The Harbor Department seeks to support the battery-electric segment of the zero emission (ZE) drayage truck market; provide charging options for fleets and independent owner- operators, particularly those without a home base for charging; and contribute to the Harbor Department's Clean Air Action Plan goal of having a 100% fleet of ZE drayage trucks servicing the port complex by 2035.

This action is intended to develop a charging facility to support early adopters of ZE drayage trucks. Current models of battery-electric ZE trucks are limited in their operational range in comparison to standard diesel models, and there are very few options for recharging during a work shift. Having a charging station available near the port complex is expected to reduce driver concerns by ensuring access to power is available if needed.

The charging facility would be "publicly accessible", which means it must be available to anyone who wishes to access the facility for a minimum of 12 hours per day. Publicly accessible charging facilities will be critical to enabling small fleets and independent operators to purchase and operate ZE trucks. While large fleets may have the capacity to install high-powered charging infrastructure at their home facilities, smaller operators currently rely on public fueling stations for their business. This RFP, and similar regional efforts, will be crucial to support the transition of the full drayage fleet to ZE.

2.2 Project Scope of Work

The successful proposer would design, build, finance, operate and maintain publicly accessible electric vehicle heavy-duty drayage truck charging facility on Harbor Department-owned property located on East I Street at Alameda Street in Wilmington, California, under an Agreement with the Harbor Department. Material terms of the Agreement are listed below.

2.3 Opportunity Site

This opportunity site (hereinafter referred to as the "Premises" or "Opportunity Site") is unimproved and is comprised of two areas depicted on Exhibit A and B. Additional details are provided below. Proposals must include use/development of both sites.

<u>Utility Infrastructure</u>

Currently there is no utility service (electrical, water, sewer) present at the Premises. The successful Proposer will be responsible for coordinating with the City of Los Angeles Departments of Public Works and Water and Power to establish required utility connections.

Nearby overhead power lines appear to span parallel to the opportunity site. These transmission lines serve as a promising opportunity to tap into the existing electrical infrastructure and bring power to the site. The electrical service could potentially be integrated by extending distribution lines from the existing transmission lines to the site's periphery. This connection to the power grid may ensure a supply of electricity. The presence of nearby overhead lines also provides potential possibilities for future scalability. As the site evolves and grows, additional power demands could potentially be readily met by reinforcing the electrical infrastructure, allowing for a dynamic power supply to support the site's future needs. The above is provided for information purposes only;

Proposers must conduct their own due diligence to determine how to bring power, and other utilities to the Premises.

The electrical service supplier is the Los Angeles Department of Water and Power. Additional information can be found at this link: www.ladwp.com. Information concerning the Department of Public Works can be found at this link: https://dpw.lacity.gov/. The Harbor Department does not have utility rate information. Please contact the utility companies, as rates are highly variable.

Harbor Department's Contribution

The Harbor Department will lease the Premises to the Successful Proposer "as-is." See Section 2.3 - Premises of the Draft Term Permit. Also, see Section 2.7 for details on the Harbor Department's planned financial contribution to the project.

Soil Management Activities

Successful Proposer will develop the site in accordance with a soil management plan to be prepared by the Harbor Department. The soil management plan will identify known contamination at the property and appropriate training and soil management practices during development. A Baseline Report is provided as Exhibit G of the draft Term Permit (Attachment 1). Harbor Department staff estimates soil remediation to cost approximately $1.5 million (i.e.; rough-order-magnitude-cost estimate noted below) however, it is the responsibility of the Proposer to confirm for itself costs associated with development of the Premises.

Provided below is a summary of the information contained in the Baseline Report for ease of review. Although the Harbor Department is providing this summary, nothing relieves the Proposers from determining for themselves the condition of the Premises, level of site remediation necessary to execute the project, and associated costs.

Parcel 1 (Exhibit A)

A limited environmental investigation was conducted at Parcel 1. Soil in the upper 2-feet was found to be impacted with arsenic and mercury, and deeper soils to 10-feet with arsenic, at concentrations above industrial screening levels for protection of human health. Additionally, Non-RCRA California Hazardous waste concentrations of lead were detected across the Parcel 1 and at one location for mercury within the upper 2-feet of soil. Volatile organic compounds (VOCs) were detected in soil gas but at concentrations below industrial screening levels considered protective of human health. Therefore, soil mitigation is required at Parcel 1 to eliminate potential site user exposure to contaminants above industrial screening levels.

A rough-order-magnitude-cost estimate (ROM) was provided to mitigate the potential exposure issue. The ROM assumed that development of Parcel 1 requires the removal of the upper 14-inches of soil across the Parcel, and a 300-foot long, 3-feet deep, and 3-feet wide trench would be excavated to bring power to the Parcel. The total in-situ volume of soil to be excavated was estimated to be 1,447 cubic yards. It was estimated that 60% of excavated soil would be disposed as a non-hazardous waste and 40% would be disposed as non-RCRA hazardous waste. The ROM estimate also includes costs for waste characterization sampling (i.e., analytical costs), pre-excavation planning, mobilization, air monitoring, excavation, demobilization, and environmental oversight and reporting. The costs assume no building structure will be constructed on the premises due to the potential for vapor intrusion and the entirety of the Parcel will be covered by asphalt, not included in the ROM estimate, at the completion of development.

Parcel 2 (Exhibit A)

More extensive environmental investigations, compared to Parcel 1, were conducted at Parcel 2. Soil contamination is extensive and consists of total petroleum hydrocarbons (TPH), metals (arsenic, cadmium, and lead), VOCs, semi-volatile organic compounds (SVOCs), dichlorodiphenyltrichloroethane (DDT), and polychlorinated biphenyls (PCBs). Non-RCRA California Hazardous waste concentrations of lead were detected across Parcel 2. In soil gas, benzene concentrations were detected above the industrial screening levels considered protective of human health. Methane was also detected at a concentration exceeding the City of Los Angeles Department of Building and Safety criteria. Methane mitigation would be required if an aboveground structure were to be constructed.

A ROM was provided to mitigate the potential exposure issues, excluding methane mitigation. The ROM assumed that development of Parcel 2 requires the removal of the upper 14-inches of soil across the Parcel, and a 300-foot long, 3-feet deep, and 3-feet wide trench would be excavated to bring power to the Parcel. The total in-situ volume of soil to be excavated was estimated to be 2,510 cubic yards. It was assumed that all 80% of excavated soil would be disposed as a non-RCRA hazardous waste and 20% would be disposed as RCRA hazardous waste. The ROM estimate also includes costs for waste characterization sampling (i.e., analytical costs), pre-excavation planning, mobilization, air monitoring, excavation, demobilization, and environmental oversight and reporting. The costs assume no building structure will be constructed on the premises due to the potential for VOC vapor intrusion and methane and that the entirety of Parcel 2 will be covered by asphalt, not included in the ROM estimate, at the completion of development.

Contractor

Due to known hazardous waste concentrations at both Parcels, earthwork must be conducted by a contractor licensed to handle hazardous waste and field personnel must complete the training requirements of Occupational Safety and Health Administration (OSHA) hazardous communication 29 Code of Federal Regulations (CFR) 1910.1200.

Cost Estimate

Cost to develop the site is estimated at $10-15 million (2024 USD), including paving and grading, electrical, and equipment. However, it is the proposer's responsibility to determine scope and costs for itself. As noted below, grant funds may be available to offset the Proposer's capital costs. For informational purposes, site improvements that may be necessary are provided below:

Paving and Grading
Concrete (6")
CMB (8")
LID planters
12" HDPE
Re-stripe parking lot stalls
Connect to Ex. SD
Curb and Gutter
Electrical
LADWP Connection
Service Switchboard
Conduits
600V, Conductors
Charger
Lighting

Proposers' scope must comply with all applicable laws, rules and regulations. Proposers are referred to the following:

Permits | Business | Port of Los Angeles

Low Impact Development (lacitysan.org)

Installation Parameters

All electric vehicle charging infrastructure and equipment located on the customer side of the electrical meter must be installed by a contractor with the appropriate license classification, as determined by the Contractors' State License Board, and at least one electrician on each crew, at any given time, who holds an Electric Vehicle Infrastructure Training Program (EVITP) certification. Projects that include installation of a charging port supplying 25 kilowatts or more to a vehicle must have at least 25 percent of the total electricians working on the crew for the project, at any given time, who hold EVITP certification. One member of each crew may be both the contractor and an EVITP certified electrician. The requirements stated in this paragraph do not apply to electric vehicle charging infrastructure installed by employees of an electrical corporation or local publicly owned electric utility.

The Proposer must obtain valid Certificates of Reported Compliances (per California Air Resources Board Off-Road Diesel Regulation[1]) prior to awarding installation contractors or sub-contractors that will use off-road diesel equipment for the installation of charging infrastructure and equipment. Installation contractors with invalid Certificates of Reported Compliance are prohibited from being contracted.

[1] https://ww2.arb.ca.gov/our-work/programs/use-road-diesel-fueled-fleets-regulation

Operational Parameters

- There is no required brand of charger nor is there a specific hardware vendor required; however, please review information in Section 2.7 below as it relates to grant funding should proposers wish to utilize that Federal funding towards the project.

- The Harbor Department is looking for proposers to determine how many chargers will be required to operate simultaneously based on their knowledge of the market and likely needs of the ZE trucks operating in and around the Port.

- The Harbor Department does not have a projection of the typical number of drayage vehicles requiring charging in connection with this opportunity or an estimate of charging cycles. The proposer should plan to submit that information under its business plan.

- The Harbor Department is looking for Proposers to provide information on what resilience measures may be required to support public charging at the site.

- The focus of this RFP is on battery-electric heavy-duty trucks. Terminal tractors and other off-road port equipment are not included in the targeted vehicles as this will be an off-terminal facility.

- Equipment must achieve hardware uptime and availability requirements of 97%+ annually.

- It's envisioned that the pricing structure will be set by the successful Proposer, and that the pricing structure may be changed over the course of the project.

Studies and additional information

Please see attached for reference Public Access Charging Infrastructure Assessment as Exhibit C and also see this link: https://www.portoflosangeles.org/environment/air-quality/zero-emissions-technologies

- Public Access Charging Infrastructure Assessment, is provided for informational purposes only. Proposers should be aware that Pages 5 of 11 and 6 of 11 of Exhibit C (i.e. figures 4, 5 and 6) include a depiction of the opportunity sites; however, dimensions of the opportunity sites noted in Exhibit C are inaccurate for purposes delineating the boundaries and dimensions of the Premises.

- Proposers should refer to Exhibits A-Site Map and B-Premises Map of the RFP, and Exhibit A of the draft Permit (Attachment 1) for the correct dimensions of the Premises.

Disclaimer

The Harbor Department makes no guarantee as to the accuracy or reliability of the data provided in connection with this RFP. Availability of data will in no way relieve the Proposers from the responsibility of determining for themselves the business potential of the opportunity outlined in this RFP.

2.4 Regulatory Environment

A. Environmental Assessment

The necessary environmental assessment(s), up to and including an Environmental Impact Report (EIR) and/or an Environmental Impact Statement (EIS), will be determined by the lead agencies which include the Harbor Department under the California Environmental Quality (CEQA) and any applicable federal lead agency under National Environmental Policy Act (NEPA). The Proposer may request to prepare the CEQA environmental assessment, subject to review and approval by the Harbor Department, including any applicable procedures and guidelines for CEQA compliance and consultant peer review by the Harbor Department. The Proposer is responsible for securing required environmental permits and obtaining NEPA clearance by the federal lead agency, if applicable. All costs associated with preparation and review of the required CEQA and/or NEPA process, or any other permit or entitlement, will be at the sole cost of the Proposer. Further, the Proposer shall indemnify and hold harmless the Harbor Department for any and all liabilities resulting from the CEQA and/or NEPA process. The documents will address potential environmental impacts from the operation of the facility and may impose environmental requirements and mitigation measures to reduce or lessen environmental impacts of the proposed occupancy and use of the site. Except as otherwise noted in this solicitation, all remediation and other environmental costs required to occupy and use the site will be the sole responsibility of the Proposer.

B. Applicable Laws

The selected Proposer will be required to comply with all rules and regulations governing use of the site, including those of the Los Angeles City Building Code, California Coastal Act, the State Tidelands Trust, all required California Environmental Quality Act (CEQA) or National Environmental Policy Act (NEPA) assessments and compliance measures including funding the Harbor Department's performance or review of any environmental assessment, the Los Angeles City Charter, Administrative Code, the Port of Los Angeles Leasing Policy, and any other applicable policies or laws, rules or regulations. The site and potential use and occupancy thereof, are at all times subject to the limitations, conditions, restrictions, and reservations contained in and prescribed by the Act of the Legislature of the State of California titled "An Act Granting to the City of Los Angeles the Tidelands and Submerged Lands of the State Within the Boundaries of Said City", approved June 3, 1929 (Stats. 1929, Ch. 651), as amended, (Act) and provisions of Article VI of the Charter of the City of Los Angeles (Charter) relating to such lands. In addition, the site is subject to all other existing entitlements and rights-of-way.

2.5 Proposer Structure and Qualifications

The Harbor Department does not intend to limit the type of entity that may submit a proposal in response to this RFP. The Harbor Department recognizes that given the breadth of the scope of services, it may be necessary to create special-purpose entities for this opportunity. Proposing entities may include individuals, corporations, partnerships, limited liability companies, or joint ventures. In addition, Harbor Department does not intend to place any limits on who takes the lead role in an entity. The proposer, i.e., the submitting entity, will be the legal entity that will execute the Term Permit. Such entity may be one that is newly created for the purpose of submitting on this opportunity.

If the Proposer is a newly created entity for purpose of submitting on this opportunity, all partners/shareholders/members in the newly created entity are subject to the Contract Administrative Requirements in Section 3.9, including executing all requisite documents.

Proposers (including any affiliated company under its sole ownership) that are a current or former tenant of the Harbor Department must have a history of good standing that includes timely rent payment, compliance with contractual terms and applicable laws. See the Port of Los Angeles Leasing Policy provided at this link:

https://kentico.portoflosangeles.org/getmedia/35eef436-9b6c-4e72-82ab-c4a31201eb00/Leasing-Policy-080815

2.6 Commercial Terms of the Proposed Agreement

2.6.1 Draft Agreement

The draft Agreement (i.e. Term Permit) for this opportunity is provided as Attachment 1 to this RFP and is substantially complete. Proposers will have an opportunity to comment on the draft Permit. Comments must be submitted by 3pm on Tuesday, February 20, 2024. Following receipt and consideration of comments on the draft Term Permit, the Harbor Department will make reasonable efforts to issue a final draft Term Permit at least seven days prior to the proposal Due Date. The Harbor Department reserves the right to revise the final draft Term Permit to incorporate: (1) the successful Proposer's financial proposal; (2) environmental measures, if any, arising from the environmental review process (e.g. CEQA, NEPA, etc.); and (3) any other terms advantageous to the Harbor Department.

The draft Term Permit is comprised of two sections, Article 1 and Article 2. Article 1 contains commercial terms relative to this specific transaction, and Article 2 contains standard provisions that appear in all term permits (i.e. leases) with the Harbor Department. As such, while the Harbor Department will review and consider all Proposer comments and requested changes to the Draft Term Permit, Proposers should be mindful that the provisions in Article 2 are rarely modified.

2.6.2 Permit Execution

The Harbor Department intends to enter into a Term Permit with the Proposer whose proposal is deemed to be most advantageous to the Harbor Department. After the evaluation process is completed, a maximum time limit will be established for the Term Permit to be executed, without further negotiation. Therefore, it is incumbent upon proposers to carefully review the final draft Term Permit and all exhibits prior to submitting a proposal. If the Term Permit is not completed and executed by the successful Proposer within the time limit, the Harbor Department reserves the right to extend the time period or to enter into a Permit with another Proposer. Proposer must include an acknowledgement in its cover letter that "submittal of a proposal constitutes a covenant to sign the Term Permit as attached, and that any deviations from that covenant will invalidate the proposal."

Proposals that do not contain this acknowledgement will be deemed **non-responsive** and will not be considered.

2.7 Potential Funding Opportunities

This solicitation does not serve as a grant funding opportunity notification. Grant funds may be available via a separate funding contract between the successful Proposer and the funding entity.

- $1.5 million in Federal grant funds is available from Los Angeles Cleantech Incubator (LACI) which was secured through a Congressional earmark (Barragan). The Harbor Department will not be a party to this funding contract.

  A copy of LACI's sample funding agreement is provided as Exhibit E.

- Additional grant funding is authorized through METRO and the Mobile Sources Air Pollution Reduction Review Committee (MSRC). See the following links regarding funding that has been authorized for this project. See the agenda and minutes for the METRO June 22, 2023 Board Meeting, and the agenda from the MSRC Board Meeting on August 17, 2023. It is the Harbor Department's understanding that the $6 million of METRO/MSRC funding will contractually flow through LACI to the Successful Proposer. The Harbor Department will not be a party to this funding agreement. Proposers are reminded that should Proposers be interested in using grant funds towards the project, be aware that certain conditions and restrictions will apply regarding implementation of the project. Proposers are referred to the RFP for more information, see Section 2.7.

- Up to $3 million in funding from the POLA Clean Truck Fund is available for zero emission heavy-duty truck charging infrastructure construction, subject to required City approvals, including funding agreement. Please see this link for information on the Clean Truck Program and Fund Rate: Port of Los Angeles Clean Truck Program | CAAP | Air Quality | Port of Los Angeles

Potential Grant Funding Conditions and Restrictions

Should Proposers be interested in using grant funds towards the project, be aware that certain conditions and restrictions will apply regarding implementation of the project. These conditions and restrictions may inform Proposers' development of proposals, including, without limitation:

- Cost of components manufactured domestically for EV charging equipment deployed in this project must meet the Build America, Buy America Act's requirement of at least 55 percent domestic content for manufactured product.

- Proposed project must comply with all applicable laws, rules and regulations, including, without limitation, those specific to Federally-funded projects: Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards of merit systems for programs.

- Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.

- Flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973\Quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant

to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.).

- Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.

- Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C.§470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq).

- All electric vehicle charging infrastructure and equipment located on the customer side of the electrical meter must be installed by a contractor with the appropriate license classification, as determined by the Contractors' State License Board, and at least one electrician on each crew, at any given time, who holds an Electric Vehicle Infrastructure Training Program (EVITP) certification. Projects that include installation of a charging port supplying 25 kilowatts or more to a vehicle must have at least 25 percent of the total electricians working on the crew for the project, at any given time, who hold EVITP certification. One member of each crew may be both the contractor and an EVITP certified electrician. The requirements stated in this paragraph do not apply to electric vehicle charging infrastructure installed by employees of an electrical corporation or local publicly owned electric utility.

- A Project Labor Agreement (PLA) may be required during the construction of the Tenant's improvements on Harbor Department property. The PLA would be set up with the Los Angeles/Orange Counties Building and Construction Trade Council where they are a signatory.

- Reporting will be required on a regular basis, including provision of data on Electric Vehicle Supply Equipment (EVSE) uptime. Failure to maintain 97% uptime will be subject to negotiated penalties.

- Tenant will be bound by and comply with applicable provisions of the California Labor Code and federal, state, and local laws related to labor, including, but not limited to, assuming all obligations and responsibilities under the California Labor Code related to prevailing wages, apprenticeship and recordkeeping that requires compliance by the contracting or awarding agency or body (i.e., City) when work requires payment of prevailing wages under the applicable federal or California law.

- In connection with any works of improvement constructed or installed by Tenant, Tenant must furnish, at its sole cost and expense, Payment and Performance Bonds.

- Any additional requirements as set forth in Exhibit E – LACI's sample funding contract.

Additional Details Regarding the Harbor Department's Planned Contribution:

Using proceeds generated by the Clean Truck Fund Rate, and subject to securing required City approvals, the Harbor Department plans to make available to the Successful Proposer up to $3 million to construct necessary zero-emission heavy-duty truck infrastructure facilities on the site, on a reimbursement basis.

Funds must be used directly in the preparation of the site and/or construction of the infrastructure facilities, including but not limited to:

- Soil addition and compaction (**EXCLUDING** soil excavation, waste characterization and disposal)
- Paving
- Trenching
- Conduit installation
- Installation of Heavy-Duty EV charging equipment

Funding from the Clean Truck Fund Rate **cannot be used** for any Project costs of hazardous waste characterization and soil transportation and disposal, including without limitation associated permitting fees or taxes.

Subject to required City approvals, the successful Proposer would be reimbursed in an amount equal to the actual costs incurred by Tenant, without markup, in constructing infrastructure facilities, up to an amount not to exceed $3 million. The reimbursement would be executed through a funding agreement between the Harbor Department and the Successful Proposer. The funding agreement will be separate and apart from the Term Permit.

The effectiveness of the funding agreement with the Harbor Department as described herein is contingent upon full completion of all review and approval processes required by the Los Angeles City Charter and Administrative Code, inclusive of approval by the Board of Harbor Commissioners.

3. PROPOSAL REQUIREMENTS

3.1 Proposal Questions

All questions regarding this RFP must be submitted, in writing, exclusively to Tanisha Herr, the Contract Administrator, at THerr@portla.org by no later than 3 p.m. on Tuesday, February 20, 2024.

Attempts to contact any other Harbor Department employee or members of the Board of Harbor Commissioners, either directly or through third-parties acting for or on the proposer's behalf, may be presumed to constitute efforts to bias or influence the competitive process with information not detailed in the RFP and not available on an equal basis to all proposers. Accordingly, such attempts shall constitute grounds to disqualify the proposer undertaking them. Any information provided by the Contract Administrator to one proposer in response to questions shall be provided to all proposers.

3.2 Proposal Submission

One (1) digital copy of your proposal, as one complete file in .pdf format, must be submitted on or before 3:00 p.m. PST on Tuesday, March 5, 2024 to Tanisha Herr at THerr@portla.org

The proposal shall be in searchable PDF (Portable Document Format). Files shall not be password protected or saved with restrictions that prevent copying, saving, highlighting, or reprinting of the contents. The electronic copy will not be returned.

Proposers solely are responsible for the timeliness of their submittals. As such, proposers are cautioned to budget adequate time to ensure that their proposals are delivered before the deadline set forth above.

By submitting a proposal, proposers certify that such proposal constitutes their full and complete written response to the RFP and evidences their acknowledgement that additional written material outside of such proposal shall not be considered by the City in connection with this RFP, unless the City provides a written request that they submit additional written materials. Absent such written request, proposers are instructed to not submit to the City written or other materials outside of the proposal, either in a subsequent interview or otherwise.

3.3 Evaluation Process and Selection Criteria

All proposals meeting the requirements of this RFP shall be reviewed and rated by an evaluation committee according to the following criteria: 1) qualifications, experience, and references; 2) business and operations plan; 3) financial capability; and 4) financial proposal. See Exhibit F.

Selected proposers may be contacted to arrange in-person interviews with the evaluation committee. The evaluation committee will make the final recommendation for selecting the consultant. All recommendations are subject to the approval of the Director of Cargo and Industrial Real Estate Division, the Executive Director of the Harbor Department, the Board of Harbor Commissioners, and the Los Angeles City Council

Proposers are advised that all documentation submitted in response to this RFP will be considered property of the Harbor Department and may become available to the public as a public record and be released without further notification. Any information that the proposer considers confidential should not be submitted with the proposal.

The right to reject any and all proposals shall, in every case, be reserved, as shall the right to waive any informality in the proposal when to do so would be to the advantage of the City.

3.4 Proposal Content

The following items shall be included in your proposal:

1. Cover Transmittal Letter

The cover letter must include the Proposer's name, address, telephone number, facsimile number, email address, primary contact, secondary contact, and any pertinent facts or details of the proposal that the proposer desires to emphasize, subject to the page limitation.

Include an acknowledgement that submittal of a proposal constitutes a covenant to sign the permit as attached, and that any deviations from that covenant will invalidate the proposal.

If a partnership, state the full name, address and other occupation (if any) of each and every partner, whether he or she is full time or part time, whether each partner is a general or limited partner; and the proportionate share of the business owned by each partner. Provide a copy of the partnership agreement in an appendix.

If a joint venture or limited liability company, state the names of the entities or individuals participating in the joint venture or limited liability company and the principal officers in each firm or names of the members of the limited liability company; indicate the proportionate share of the business owned by each joint venture entity, or the number of shares held by each member of the limited liability company. Include a copy of the joint venture agreement or limited liability company operating agreement in an appendix.

If a corporation, state the full name and title of each of the corporate officers. Also, include a copy of the Articles of Incorporation and Bylaws in an appendix.

If the Proposer is wholly owned by another entity or entities, provide sufficient information of such entities that describe its ownership interests, including copies of corporate and/or business documents in an appendix, along with a supplemental ownership chart outlining the connection between each owner for the Harbor Department to get a clear understanding of such entity(ies)'s ownership interest of the Proposer.

Provide an executive summary, which includes a narrative of the conceptual plan, which introduces the proposer and team, highlighting the special strengths of the proposer to perform the operations requested in this RFP. The letter must be signed by a duly authorized representative defined as the person or persons (i.e. Chief Executive Officer, General Manager, Agency Director, Board Chair, etc.) who has/have legal authority to bind the entity in contractual matters with the Harbor Department. The authority should be evidenced in a corporate resolution granting this authorization. A copy of this corporate resolution, or other appropriate evidence of authority, must be included in the proposal.

Proposer must include an acknowledgement in its cover letter that submittal of a proposal constitutes a covenant to sign the Term Permit as attached, and that any deviations from that covenant will invalidate the proposal. Also, include an acknowledgement that the Proposer is pursuing this opportunity at their own risk and, in consideration of the opportunity to propose, will duly hold the City harmless from any costs, fees or liability incurred in connection with the RFP process.

2. Organization and Team

This section should provide the Harbor Department with an understanding of the composition and makeup of the proposed team.

The Proposer Must:

- Please provide information on the Proposer team, including the firm's organizational structure, board of directors, and executive management. Briefly state the "corporate" history, mission, and/or core business objectives. Please provide resumes of members of the Proposer management team. Similar information is requested for any business partners that are proposed to be part of the proposal.

3. Qualifications, Experience and References

This section of the Proposer's response to the RFP should provide the Harbor Department with an understanding of the Proposer's capability to operate the services covered by this RFP.

The Proposer Must:

- Provide a narrative describing the firm's qualifications to perform the work, including past (relevant) experience, experience in working for or together with governmental property owners/landlords, and at least three client references, with contact names and information. Qualifications and experience for proposed sub-contractors, or consultants should also be included.

- Identify any members of the proposed team, including any sub-contractor, or consulting firms, who are former Commissioners, officers or employees of the Harbor Department. Provide names, proposed position, and past position with the Harbor Department as well as the years of employment/appointment with the Department. If the proposed team does not have any such members, please include a statement to that effect in the proposal.

  Proposers are advised that it is a proposer's obligation to determine whether any conflicts of interest exist for team members and the extent to which those conflicts need to be resolved or disclosed prior to engaging in business with the Department.

4. Business and Operations Plan

This section of the Proposer's response to the RFP should provide the Harbor Department with an understanding of the Proposer's ability to successfully implement the proposed project.

The Proposer must submit a Business and Operations Plan that includes the following components:

A. Approach:

- Provide a narrative which shows the Proposer's approach to implementing the business and operations plan for the opportunity site.
- Include justification for the approach to the operation of the site, strategy for operating the site, investment in the site, and sustainability of the site.

B. Work Plan:

- Include a proposed site plan, including a conceptual layout for the charging station facility, with points of access and description of proposed construction activities.
- Describe the proposed equipment and functionality.
- Describe the team's approach to managing the operations of the proposed site.
- Provide information on what type of payment system may be required to support the business model and/or comply with any applicable regulations.

- Identify the diagnostics/service provider for non-electrical maintenance and confirm there is a service contract coterminous with the proposed Agreement.
- Demonstrate Proposers ability to meeting PLA requirements, should a PLA be required.
- Identify the number of chargers to be installed at the site, how many chargers will be required to charge simultaneously based on their knowledge of the market.
- Detail how many EVSE units would considered 'fully public', i.e. accessible on a first-come, first served basis; EVSEs that can be reserved ahead of time, though without a pre-existing utilization contract between driver/fleet and station operator, are considered fully public.
- Provide a projection of the anticipated number of drayage vehicles requiring charging at the facility and estimated charging cycles.
- Provide resiliency plans to ensure continuity of operations at the site.

C. Business Plan

- Provide the proposed business plan and proposed pricing structure.
- Evidence that the proposed plan is implantable and sustainable. (Among other ways of providing such information, this may be done by providing a pro forma of revenues and expenses the Proposer expects to realize if successful.)
- Detail the proposed business model and pricing structure.

D. Timeline:

- Detail the proposed timeline for implementation of the proposed charging facility, including, design, permitting, construction, and commencement of operations.

The Proposer should provide sufficient information to demonstrate the following:

- How will the inclusion of Distributed Energy Resources (DER) benefit the project, whether through reduced interconnection times, reduced peak loads, or lower costs to fleets and drivers. If the Proposer does not plan to deploy any DERs, please explain why.
- How the proposal accounts for future proofing, specifically how the project site could support at least 2 chargers pursuant to CharIn Megawatt Charging Standard (MCS) or comparable standard, once the MCS charging standard or comparable is commercially deployable for both truck and charger manufacturers.
- How the proposer’s business model will accommodate reservations, and will ensure timely throughput.
- The extent to which the proposed project would have a positive economic impact (direct and indirect), include the estimated number of jobs to be created on-site and the estimated amount of sales, payroll or other tax revenue to be generated as a result of the proposed activity on the site.

5. Financial Capability

This section should provide the Harbor Department with an understanding of the Proposer's capability of fulfilling all obligations under the Permit.

The Proposer must:

- Provide financial statements including the elements described below. All financial statements must either be audited and certified by a licensed public accountant or accompanied by a notarized statement from the Chief Financial Officer certifying the accuracy of the financial information contained in such statements. If the financial information was originally prepared using a currency other than U.S. Dollars, then it must be converted to U.S. Dollars using the conversion rate(s) in place as of the applicable date or period to which the financial information applies.

  (1) Audited financial statements including a consolidated balance sheet, income statement and statement of cash flows, prepared in accordance with generally accepted accounting principles (GAAP) or International Financial Reporting Standards (IFRS), for the most recent three complete fiscal years. Footnote disclosures and the accountant's audit report must accompany the financial statements. If the most recent audited statements are for a period ending more than six months prior to the due date for the proposal, then supplement your response by submitting unaudited year-to-date financial statements. If audited statements are not available for the proposer, then so state and submit unaudited statements for the equivalent time periods, accompanied by a notarized statement from the proposer's Chief Financial Officer certifying the accuracy of the financial information contained in such statements and also submit audited statements for the Guarantor (if applicable) for such periods.

  (2) A signed statement from the Chief Financial Officer stating that there has been no material change in the financial condition of the company subsequent to the financial statements submitted in response to this RFP. If such a statement is not possible, enumerate the material changes that have occurred, if any, in lieu of this statement.

  (3) If the proposer intends to organize as a partnership, limited liability partnership or joint venture or limited liability company, then the above-referenced financial information of each general partner, joint-venture member, or LLC member, respectively, must be submitted. Individuals required to provide financial information must submit personal tax returns from the three (3) most recent consecutive years and a current statement of net worth.

  (4) Harbor Department reserves the right to require guarantees. Any person or entity providing a guaranty must provide a written statement indicating the level of commitment together with the financial information detailed in this section as if the Guarantor were the Proposer. If Proposer submits financial statements of an entity other than Proposer (e.g., a parent company) to demonstrate financial capability to provide the service and fulfill the Revocable Permit obligations covered by this RFP, the Harbor Department will require an executed guaranty between the Proposer and the Guarantor in a form acceptable to the Harbor Department and approved as to form by the Los Angeles City Attorney.

- Provide a statement indicating any pending, active, or previous legal action that could reasonably prevent the proposer from fulfilling its obligations under the agreement.

- Provide sufficient information to demonstrate Proposer has potential sources of funding to be used for equipment purchases and working capital. Provide information and source for amounts of working capital to be contributed.

- Note whether the Proposer is seeking to pursue the grant funding opportunity referenced in this solicitation.

- If applicable, explain the relationship between the different firms involved in the proposal and the extent to which they have an equity interest in the proposer. An organizational chart is recommended.

Proposers may request Harbor Department staff to conduct an in-person review of financial statements required under this section in lieu of providing such financial statements with the proposal.

Requests must be submitted by 3pm on Tuesday, February 20, 2024at via email to:THerr@portla.org including in the subject line “Schedule a Review of Proposal Financial Records” to arrange for an appointment.

The location of the in-person review will be the Harbor Department Administration Building, 425 S. Palos Verdes St. San Pedro, CA 90732, at a date and time determined by the Harbor Department in its sole discretion.

The Harbor Department reserves the right to request additional information from Proposers in order to determine if the Proposer has the financial capability to meet the obligations of the Permit. If Harbor Department, in its sole discretion, determines that a Proposer experiences a change in its financial condition that would materially or adversely affect its ability to perform the work contemplated in the RFP, such Proposer may be disqualified from further consideration.

6. Financial Proposal

This section of the Proposer’s response to the RFP should provide the Harbor Department with the rent offer for use and occupancy of the premises under the Agreement.

The Proposer must

- Complete Exhibit D and include with the proposal. Minimum Rent Offer is $345,000.00 per year, commencing on the Effective Date of the Term Permit, and subject to increase per the terms of the Term Permit. Proposals containing rent offers of less than $345,000.00 per year will be deemed non-responsive. Proposers should not propose multiple rent offers or propose any additional compensation outside of the land rent, (e.g. revenue sharing). Please see RFP Selection Evaluation Form for details on scoring parameters.

  Submission of Exhibit D - Financial Proposal Form, signifies that the proposal offered to the Harbor Department is genuine and not the result of collusion or any other anti-competitive activity with other proposers or otherwise. **Proposal that do not have a completed Financial Proposal Form containing the Minimum Rent Offer will be deemed non-responsive**.

The Proposer should provide sufficient information to demonstrate the following:

- How the Proposer arrived at the proposed rent offer, i.e. rates per square foot per month for the land.

7. Contract Administrative Requirements

In order for your proposal to be deemed responsive, the following document MUST be included with your proposal:

INSURANCE VERIFICATION LETTER

Provide a letter from your insurance carrier or broker indicating that the insurance requirements for this project as described below are presently part of the proposer's coverage, or that the insurance company is able to provide such coverage should the proposer be selected. The insurance carrier/broker must be aware of the indemnification requirements also set forth in this RFP. Proposers are not required to purchase the required insurance in order to respond; however, all required insurance will need to be submitted at the time of contract award. ACORD® Certificate of Liability Insurance sheets will not be accepted in lieu of an insurance verification letter. **Proposals submitted without an insurance verification letter, as described above, will be deemed non-responsive.**

1. Indemnification

Except for the sole negligence or willful misconduct of the City, or any of its Boards, Officers, Agents, Employees, Assigns and Successors in Interest, Contractor undertakes and agrees to defend, indemnify and hold harmless the City and any of its Boards, Officers, Agents, Employees, Assigns, and Successors in Interest from and against all suits and causes of action, claims, losses, demands and expenses, including, but not limited to, attorney's fees (both in house and outside counsel) and cost of litigation (including all actual litigation costs incurred by the City, including but not limited to, costs of experts and proposers), damages or liability of any nature whatsoever, for death or injury to any person, including Contractor's employees and agents, or damage or destruction of any property of either party hereto or of third parties, arising in any manner by reason of the negligent acts, errors, omissions or willful misconduct incident to the performance of this Contract by Contractor or its subcontractors of any tier. Rights and remedies available to the City under this provision are cumulative of those provided for elsewhere in this Contract and those allowed under the laws of the United States, the State of California, and the City.

2. Acceptable Evidence and Approval of Insurance

Electronic submission is the required method of submitting Proposer's insurance documents. Proposer's insurance broker or agent shall register with the City's online insurance compliance system **KwikComply** at https://kwikcomply.org/ and submit the appropriate proof of insurance on Proposer's behalf.

Carrier Requirements

All insurance which Proposer is required to provide pursuant to this Agreement shall be placed with insurance carriers authorized to do business in the State of California and which are rated A-, VII or better in Best's Insurance Guide. Carriers without a Best's rating shall meet comparable standards

in another rating service acceptable to City.

Primary Coverage

The coverages submitted must be primary with respect to any insurance or self-insurance of the City of Los Angeles Harbor Department. The City of Los Angeles Harbor Department's program shall be excess of this insurance and non-contributing.

Notice Of Cancellation

For each insurance policy described below, the Proposer shall give the Board of Harbor Commissioners a 10-days prior notice of cancellation or reduction in coverage for nonpayment of premium, and a 30-days prior notice of cancellation or reduction in coverage for any other reason, by written notice via registered mail and addressed to the City of Los Angeles Harbor Department, Attention Risk Manager and the City Attorney's Office, 425 S. Palos Verdes Street, San Pedro, California 90731.

Modification of Coverage

Executive Director, at his or her discretion, based upon recommendation of independent insurance Proposers to City, may increase or decrease amounts an types of insurance coverage required hereunder at any time during the term hereof by giving ninety (90) days' written notice to Proposer.

Renewal of Policies

At least thirty (30) days prior to the expiration of any policy, Proposer shall direct their insurance broker or agent to submit to the City's online insurance compliance system **KwikComply** at http://kwikcomply.org a renewal certificate showing that the policy has been renewed or extended or, if new insurance has been obtained, evidence of insurance as specified below. If Proposer neglects or fails to secure or maintain the insurance required below, Executive Director may, at his or her own option but without any obligation, obtain such insurance to protect the City's interests. The cost of such insurance will be deducted from the next payment due Proposer.

Policy Copies

Upon request by City, Proposer shall furnish a copy of the binder of insurance and/or full certified policy for any insurance policy required herein. This requirement shall survive the termination or expiration of this Agreement.

Limits of Coverage

If Proposer maintains higher limits than the minimums required by this Agreement, City requires and shall be entitled to coverage for the higher limits maintained by Proposer. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to City.

Right to Self-Insure

Upon written approval by Executive Director, Proposer may self-insure if the following

conditions are met:

a. Proposer has a formal self-insurance program in place prior to execution of this Agreement. If a corporation, Proposer must have a formal resolution of its board of directors authorizing self-insurance.

b. Proposer agrees to protect the City, its boards, officers, agents and employees at the same level as would be provided by full insurance with respect to types of coverage and minimum limits of liability required by this Agreement.

c. Proposer agrees to defend the City, its boards, officers, agents and employees in any lawsuit that would otherwise be defended by an insurance carrier.

d. Proposer agrees that any insurance carried by Department is excess of Proposer's self-insurance and will not contribute to it.

e. Proposer provides the name and address of its claims administrator.

f. Proposer submits its most recently filed 10-Q and its 10-K or audited annual financial statements for the three most recent fiscal years prior to the Executive Director's consideration of approval of self-insurance and annually thereafter.

g. Proposer agrees to inform Department in writing immediately of any change in its status or policy which would materially affect the protection afforded Department by this self-insurance.

h. Proposer has complied with all laws pertaining to self-insurance.

Insurance

In addition to and not as a substitute for, or limitation of, any of the indemnity obligations imposed by [Indemnification Section Above], Proposer shall procure and maintain at its sole cost and expense and keep in force during the term of this Agreement the following insurance:

3. General Liability Insurance

Proposer shall procure and maintain in effect throughout the term of this Agreement, without requiring additional compensation from the City, commercial general liability insurance covering personal and advertising injury, bodily injury, and property damage providing contractual liability, independent contractors, products and completed operations, and premises/operations coverage written by an insurance company authorized to do business in the State of California rated VII, A- or better in Best's Insurance Guide (or an alternate guide acceptable to City if Best's is not available) within Proposer's normal limits of liability but not less than Five Million Dollars ($5,000,000) combined single limit for injury or claim. Where Proposer provides or dispenses alcoholic beverages, Host Liquor Liability coverage shall be provided as above. Where Proposer provides pyrotechnics, Pyrotechnics Liability shall be provided as above. Said limits shall provide first dollar coverage except that Executive Director may permit a self- insured retention or self-insurance in those cases where, in his or her judgment, such retention or self-insurance is justified by the net worth of Proposer. The retention or self-insurance provided shall provide that any other insurance maintained by Department shall be excess of Proposer's insurance and shall not contribute to it. In all cases, regardless of any deductible or retention, said insurance shall contain a defense of suits provision and a severability of

interest clause. Additionally, each policy shall include an additional insured endorsement (CG 2010 or equivalent) naming the City of Los Angeles Harbor Department, its officers, agents and employees as Primary additional insureds.

4. Fire Legal Liability

In addition to and concurrently with the aforesaid insurance coverage, Proposer shall also procure and maintain, fire legal liability insurance with a minimum limit of Five Hundred Thousand Dollars ($500,000), covering legal liability of Proposer for damage or destruction by fire or explosion to the works,, structures and improvements owned by City provided that said minimum limits of liability shall be subject to adjustments by Executive Director to conform with the deductible amount of the fire insurance policy maintained by Board.

5. Automobile Liability Insurance

Proposer shall procure and maintain at its expense and keep in force at all times during the term of this Agreement, automobile liability insurance written by an insurance company authorized to do business in the State of California rated VII, A- or better in Best's Insurance Guide (or an alternate guide acceptable to City if Best's is not available) within Proposer's normal limits of liability but not less than Five Million Dollars ($5,000,000) covering damages, injuries or death resulting from each accident or claim arising out of any one claim or accident. Said insurance shall protect against claims arising from actions or operations of the insured, or by its employees. Coverage shall contain a defense of suits provision. Additionally, each policy shall include an additional insured endorsement (CG 2010 or equivalent) naming the City of Los Angeles Harbor Department, its officers, agents and employees as Primary additional insureds.

6. Workers' Compensation and Employer's Liability

Proposer shall certify that it is aware of the provisions of Section 3700 of the California Labor code which requires every employer to be insured against liability for Workers' Compensation or to undertake self-insurance in accordance with the provisions of that Code, and that the Proposer shall comply with such provisions before commencing the performance of the tasks under this Agreement. Coverage for claims under U.S. Longshore and Harbor Workers' Compensation Act, if required under applicable law, shall be included. Proposer shall submit Workers' Compensation policies whether underwritten by the state insurance fund or private carrier, which provide that the public or private carrier waives its right of subrogation against the City in any circumstance in which it is alleged that actions or omissions of the City contributed to the accident. Such worker's compensation and occupational disease requirements shall include coverage for all employees of Proposer, and for all employees of any subcontractor or other vendor retained by Proposer.

7. Environmental Impairment Liability

Where Tenant's operations involve the storage or use of any type of hazardous materials or pollutants, Tenant shall procure and maintain environmental impairment liability insurance which shall include coverage for bodily injury, property damage, including third-party claims for on-site and off-site bodily injury and property damage, clean-up, and defense of suits, with a limit of at least One Million Dollars ($1,000,000) per occurrence, which is to remain in effect at least five (5) years after the Termination Date..

8. All Risk Property

Tenant shall procure and maintain fire and extended coverage insurance covering One

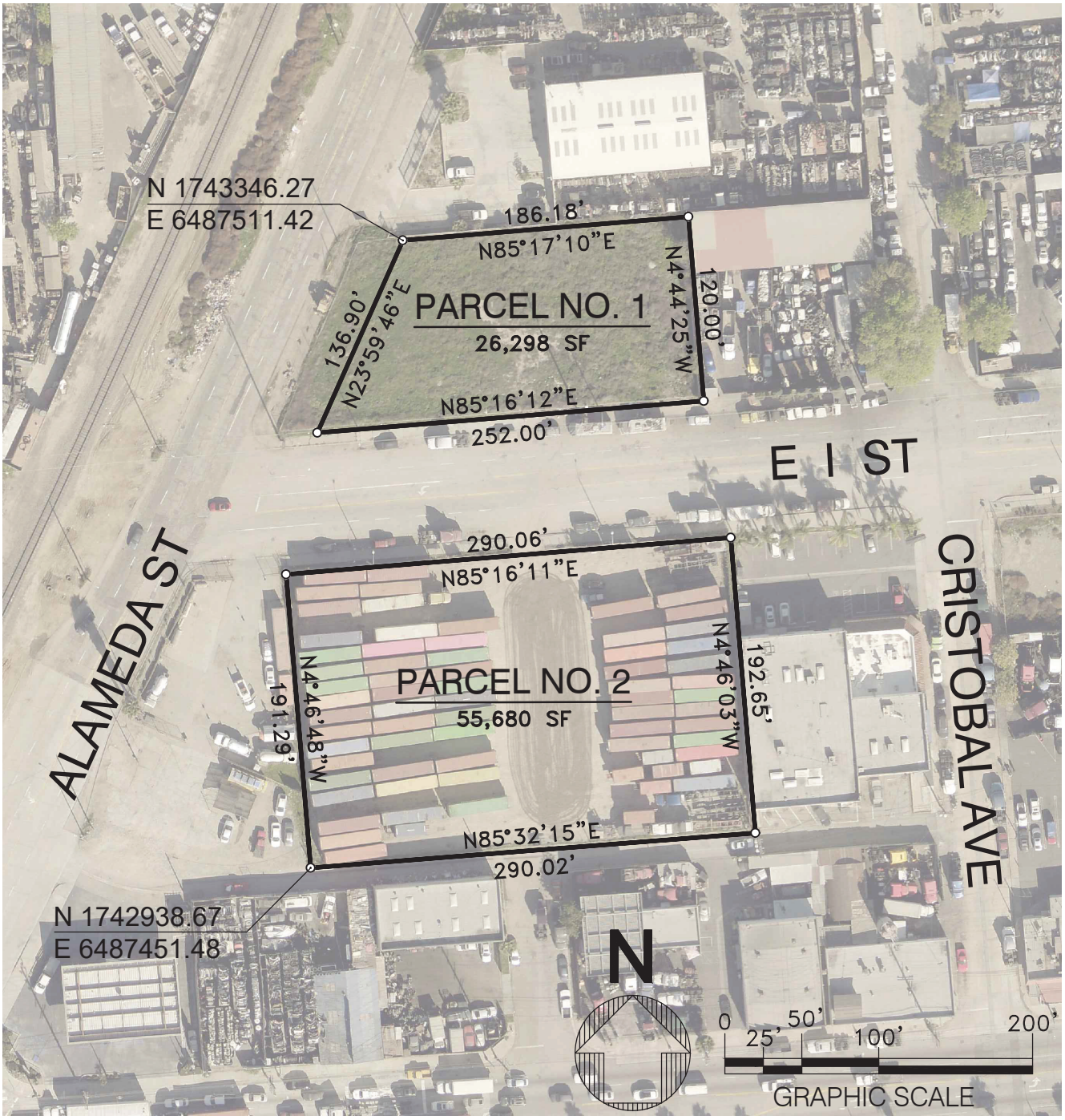
Hundred percent (100%) of the replacement value of high-valued equipment and the works, buildings, and improvements erected or owned by Tenant on the Premises with such provision in the policies issued to cover the same, or in riders attached thereto, as will provide for all losses over Five Hundred Thousand Dollars ($500,000) to be payable to Board to be held in trust for reconstruction. In the event of loss or damage by fire to any of such equipment, works, buildings, improvements, Tenant shall undertake replacement or reconditioning of such items within ninety (90) days following any such loss. As Tenant undertakes such replacement or reconditioning, such proceeds shall be released by Board to Tenant as payments are required for said purpose. Upon the completion of such replacement or reconditioning to the satisfaction of Executive Director, any balance thereof remaining shall be paid to said Tenant forthwith.

3.5 Checklist for RFP Submittal Requirements

A checklist is provided to assist in verification that all elements of the RFP have been addressed. However, firms are encouraged to review the entirety of the RFP, including the Standard Contract Provisions section, to ensure full compliance and not rely solely on this checklist.

- ☐ Cover transmittal letter, signed by an authorized principal of the proposing consulting firm
- ☐ Table of Contents, if included (not required)
- ☐ Proposal with the following sections, in order:
  - Firm Qualifications, Experience and References
  - Business and Operations Plan
  - Financial Capability
  - Financial Proposal
- ☐ Resumes for all proposed staff personnel provided in an appendix
- ☐ Letter from insurance carrier or broker indicating ability to meet insurance requirements for this project, including general liability, fire legal liability, auto liability, environmental impairment liability, all risk property, and workers' compensation. **Do not submit an ACORD® Certificate of Liability Insurance sheet. It will not be accepted in lieu of an insurance verification letter.**

EXHIBIT A



NOTES:

1) NO SUBSTRUCTURES ARE SHOWN ON THIS DRAWING. ACCURATE SUBSTRUCTURE INFORMATION MUST BE OBTAINED FROM LESSEES AND L.A.H.D. ENGINEERING RECORDS.

2) HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83), CALIFORNIA COORDINATE SYSTEM, ZONE 5, FEET.

3) ALL DISTANCES SHOWN ON THIS DRAWING ARE GRID DISTANCES. TO OBTAIN A REASONABLE REPRESENTATION OF THE GROUND DISTANCE, DIVIDE THE DISTANCE HEREIN BY THE AVERAGE SCALE FACTOR OF 1.000076.

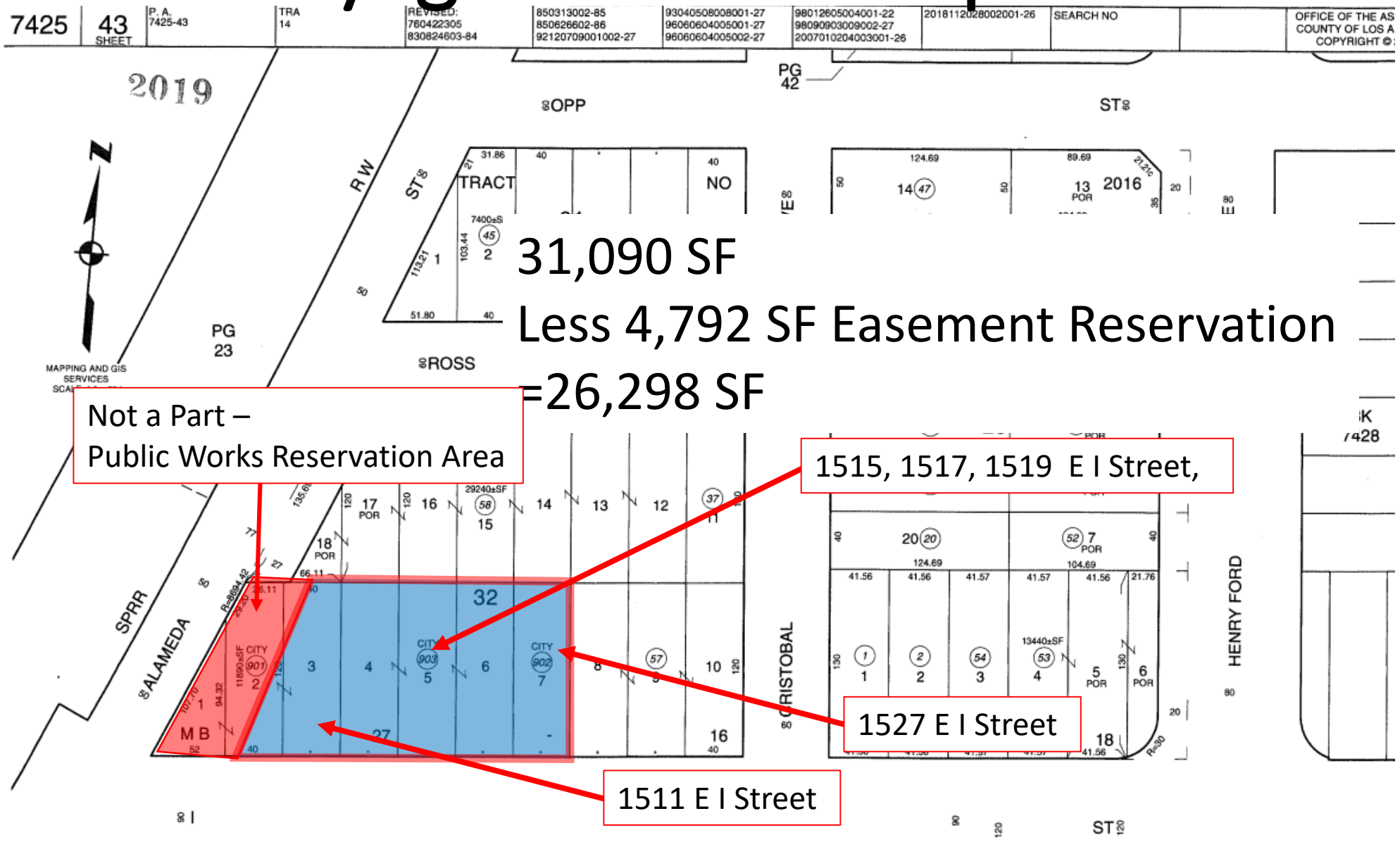
SCALE: AS SHOWN	CHIEF OF DESIGN	PERMIT MAP - AUTHORITY NO. TBD
DRAWN: P. HOANG		DRAYAGE TRUCK EV DEPOT
CHECKED: C. SAR	ASSISTANT CHIEF OF HARBOR ENGINEER	
DESIGNED: P. HOANG		
ENGR/ARCH		THE PORT OF LOS ANGELES ENGINEERING DIVISION 425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309
	CHIEF HARBOR ENGINEER DATE	DRAWING NUMBER DRAFT

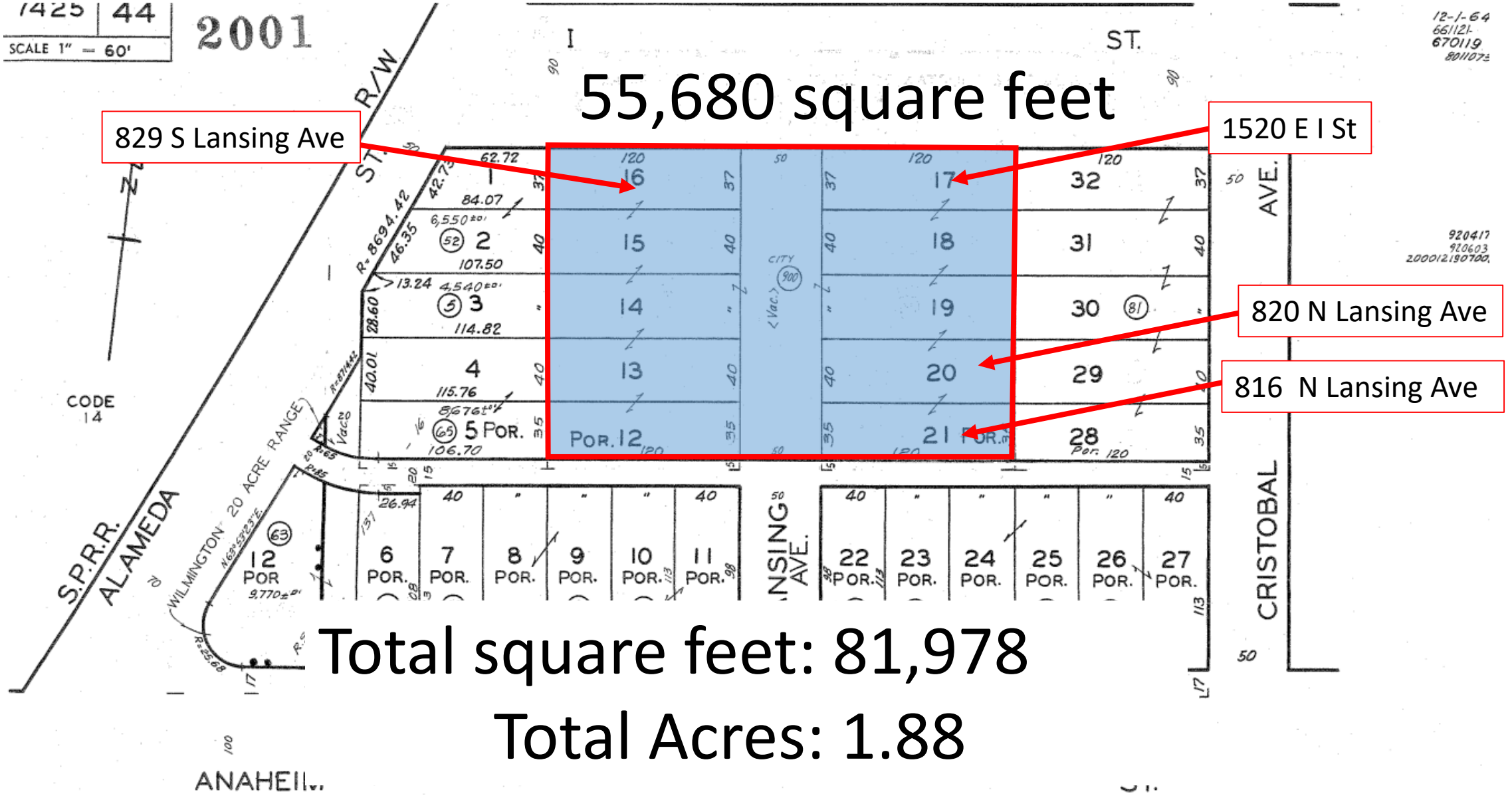
DWG: C:\Users\hoangp\Desktop\Drayage Truck EV Depot.dwg USER: hoangp
DATE: May 31, 2023 2:30pm XREFS:BDRY-PIER 0308213 0338213 IMAGES:L6_6482_1741d L6_6487_1741a

POLAPRO5_VER.1_12/96

Drayage Truck EV Depot

EXHIBIT B




1425 | 44
SCALE 1" = 60'
2001
I ST.
55,680 square feet
829 S Lansing Ave
1520 E I St
820 N Lansing Ave
816 N Lansing Ave
S.P.R.R. ALAMEDA
CRISTOBAL AVE.
LANSING AVE.
CODE 14
WILMINGTON 20 ACRE RANGE
ANAHEIM
Total square feet: 81,978
Total Acres: 1.88

Introduction

The Volvo Low Impact Green Heavy Transport Solutions (LIGHTS) project is an innovative and important freight electrification project deploying heavy- duty battery electric vehicles into goods movement operations in Southern California. Working with fleet partners Dependable Highway Express and National Freight Inc. (NFI), and dealership partner TEC Equipment, LIGHTS seeks to reduce emissions at warehouses and freight facilities in some of the region's most disadvantaged communities. These reductions are realized through the use of zero emission on-and-off-road equipment and warehouse energy efficiency improvements, including Volvo's North American market introduction of Class 8 battery electric trucks capable of drayage service.

In 2017, the Port of Los Angeles (Port, POLA), in partnership with the Port of Long Beach (POLB), adopted the 2017 Clean Air Action Plan Update, setting a goal to transition to a 100 percent zero-emission drayage fleet by 2035. Achieving this goal will require extensive regional charging infrastructure for Class 8 zero-emission trucks to support the majority of the drayage fleet. In support of that goal, the Port has partnered with Volvo on the LIGHTS project to demonstrate the potential of battery-electric trucks and further the understanding of the operational capabilities and charging infrastructure needed for zero-emission drayage trucks.

As of late 2021, approximately 20,000 Class 8 trucks are registered in the Ports Drayage Truck Registry (PDTR). The active drayage fleet on any given day ranges roughly between 9,000 and 13,000 trucks. Drayage trucks making frequent or semi-frequent calls (2.5 times per week or more) number approximately 14,000, suggesting that a range from 14,000 to 20,000 trucks is a reasonable rough estimate of the required drayage fleet needed to support the San Pedro Bay ports (SPBP) gateway.

The Port anticipates that most of the charging infrastructure required to charge the 14,000 to 20,000 zero-emission trucks expected by 2035 will be located at private fleet facilities or at future retail charging facilities located outside of the Port. Indeed, the Port has an interest in encouraging drayage trucks not to dwell in the Port area or surrounding communities to minimize impacts on these communities and avoid congestion in the gateway. However, there is potentially a need for charging infrastructure in the Port region to support a fraction of truck trips, especially early adopter trucks deployed through grant programs, that would have insufficient charge to return to their regular charging facilities. Ultimately, the charging facility would be intended to be utilized for supplemental charging and would not be intended to provide space for overnight parking or charging of trucks.

This report evaluates the potential for a charging facility located near the Port to support a significant portion of these truck trips, defines currently available charging interfaces, and considers the available utility rate structures that would be most beneficial to electric vehicle (EV) charging.

Estimating Facility Demand

The premise of this current study is the development of a facility intended to support a fraction of truck trips that would have insufficient charge to return to their regular charging facilities. This need is expected to occur most often for inland-based drayage fleets that can have one-way trip distances of 40 miles or more. Current Class 8 battery-electric trucks have estimated ranges of 130 to 230 miles and near-term battery electric trucks from Volvo are estimated to have up to 275 miles of range. While these capacities

are sufficient to allow an inland drayage truck to make one or two round trips between charges, additional trips or additional shifts could require limited charging near the Port to complete a return trip.

Very little detailed data on drayage truck trip activity are available in public literature. However, a recent study of NFI's telematics data for their drayage truck operations in 2019 provides a unique example data set for an inland fleet facility.[1] The study evaluated the potential to transition NFI's 2019 drayage fleet of approximately 50 trucks to battery-electric trucks under several scenarios, including the use of a notional truck with a 500-kilowatt hours (kWh) battery pack supported by a 150-kilowatt (kW) charger. This scenario is roughly consistent with existing and near-term Class 8 truck offerings from major truck original equipment manufacturers. A review of the data and analysis for this scenario revealed that 15 percent of trips leaving the San Pedro Bay ports gateway would run out of charge before reaching the Chino facility, which is located 55 miles from the Port.

The distribution of failed trips, by hour of departure from the Port, is shown in Figure 1. The majority of failed trips would have departed the Port between midnight and 04:00, suggesting that trucks used in two-shift operations and in the second half of their second shift are most likely to require supplemental charging to return to their inland facility.

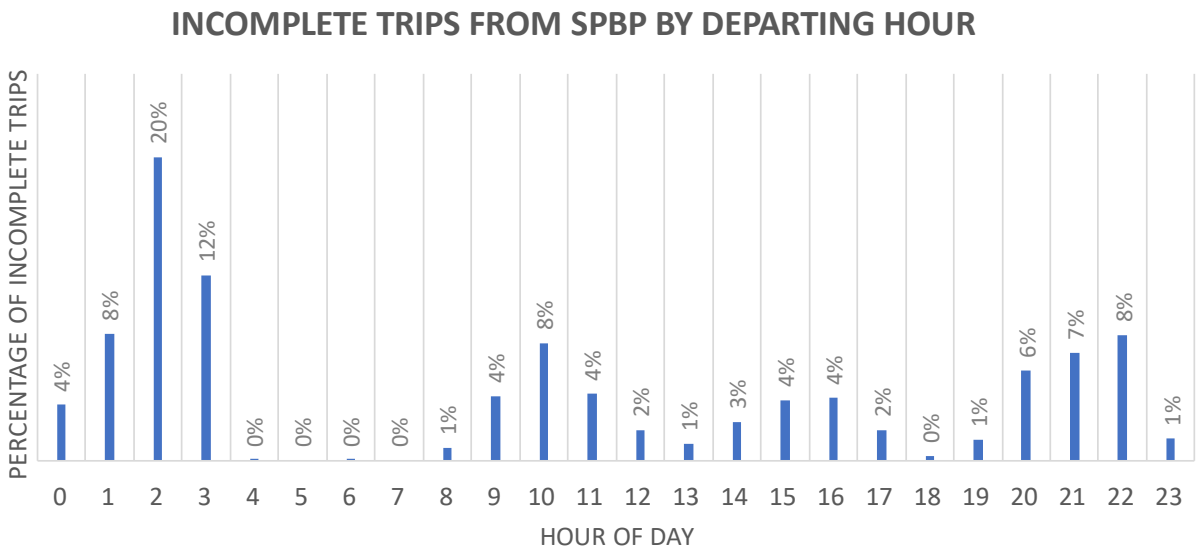


Figure 1. Hourly Distribution of Failed Trips Originating from the Port Gateway

To estimate the potential number of Port-wide truck trips that would require supplemental charging at the Port, the hourly distributions in Figure 1 were applied to the hourly distribution of gate moves as reported in the PDTR (Figure 2) for 2019. The resulting distribution of the annual average daily incomplete trips is shown in Figure 3 and represents approximately 2,000 departing trips per day. Similar analysis was completed for the maximum daily moves in 2019 and represented approximately 3,100 departing trips.

[1] Gladstein, Neandross & Associates, "California Heavy-Duty Fleet Electrification," prepared for Environmental Defense Fund, March 2021. https://www.gladstein.org/research/california-heavy-duty-fleet-electrification/

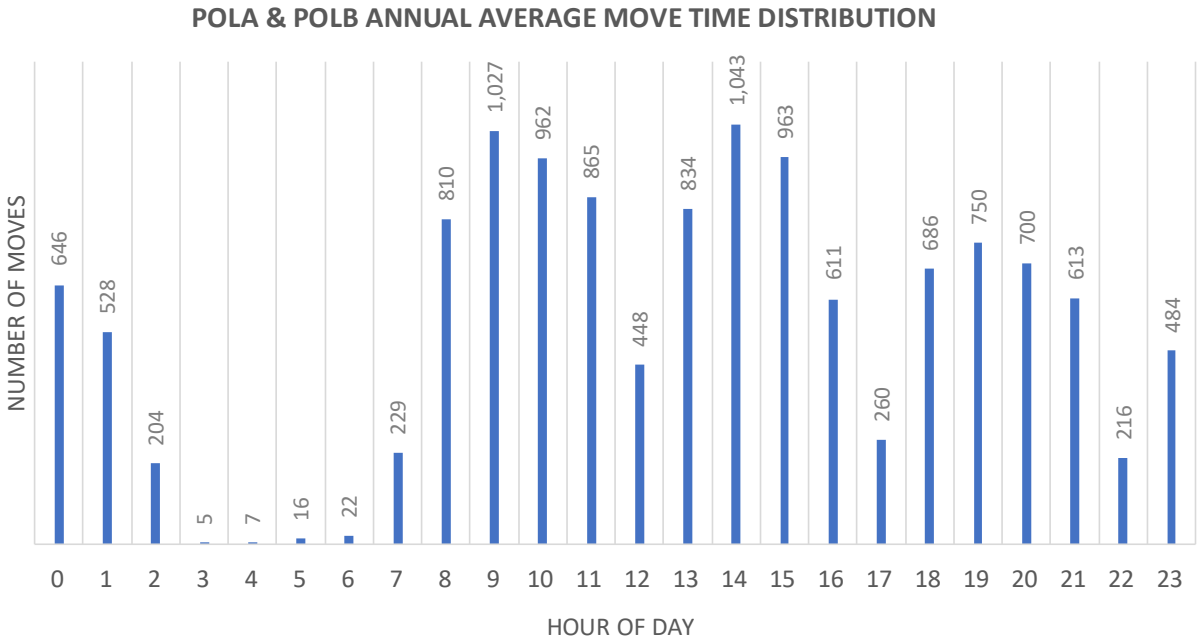


Figure 2. Annual Average Distribution of Gate Move Times

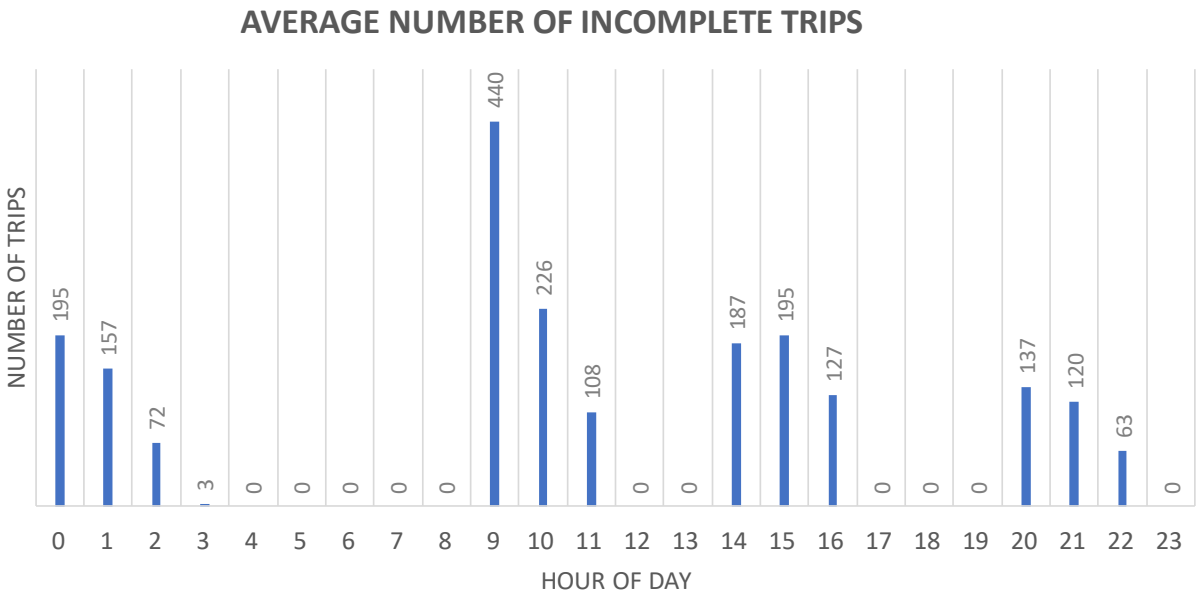


Figure 3. Incomplete Trip Distribution for an Annual Average Day

Potential Site Identification and Design

In parallel with the development of charging demand estimates, the Port surveyed available parcels around the Port for potential use as a public access charging facility. Because the charging facility is intended to support trucks departing the Port gateway, it was determined that the facility configuration should support charging of both bobtail trucks and trucks with connected trailers. The two adjacent parcels on POLA-owned property were identified at Alameda Street and I Street in Wilmington with the potential space and access to power to support these needs.

The two parcels, located at 900 Alameda Street and 1480 East I Street, and the conceptual layout of charging stalls and equipment are shown in Figure 4. These parcels are located just north of the CA-47 and CA-103 interchange at the Heim bridge. Both CA-47 (Alameda Corridor) and CA-103 are major truck routes serving the Port gateway and are conceptually well located to drayage truck charging.

- 900 Alameda Street – 0.8 acres, 15 charging stations, rated at 150 kW each (upgradable to 400 kW) Class 8 trucks, bobtail only.
- 1480 East I Street – 1.5 acres, 25 charging stations, rated at 150 kW each (upgradable to 400 kW), Class 8 trucks with 40 ft containers.

Queuing Assumptions and Analysis

Each parcel's layout maximizes the number of charging stations but limits the available space for queuing of trucks on the parcel. Consequently, a queuing analysis was conducted to determine the maximum number of trucks that could be charged based on the trip distributions shown in Figure 3 and restrictions on the number of trucks queuing for each parcel. Figure 5 and Figure 6 show the assumed queuing locations for each parcel. At the Alameda Street parcel, it is assumed up to three bobtail trucks could queue on the parcel with no on-street queuing. At the I Street parcel, up to two tractor-trailers are assumed to queue on I Street where street parking already occurs.

Due to public concern regarding safety, additional traffic, and pollution in the community, the Port is committed to addressing any negative impacts resulting from this conceptual project. Although no emissions will be associated with battery-electric heavy-duty trucks, the Port recognizes the potential safety and traffic congestion concerns. For this reason, a traffic safety study should be conducted if such a project moves forward.

The queuing analysis is dependent on the arrival rate of trucks, but also on the dwell time of each truck during charging. These dwell times were estimated assuming a constant 150 kW charging rate for the time required provide sufficient charge for the truck to return to its inland facility where it could utilize its regular charging infrastructure. The assumption of a 150-kW constant charge rate is considered reasonable because the use of this facility is expected to largely charge within the bulk charge region of the battery (i.e., not charging from a very low state of charge or charging to near 100 percent state of charge). The energy required to be delivered is based on an assumed 2.4 kWh per mile energy consumption and a required one-way trip length using the trip length distributions for trips of 50 miles or more shown in Figure 7.[2] This approach is shown as an equation below.

[2] Analysis of trip distribution assumptions used in the Port's 2019 Emissions Inventory.

$$\text{Dwell Time} = [\text{Miles Needed}] * \left[2.4\ \frac{\text{kWh}}{\text{mi}}\right] * [\frac{1\ \text{hour}}{150\ \text{kW}}]$$

Using this method, a truck requiring 50 miles would receive the necessary charge in 48 minutes. The trip length distributions shown in Figure 7 indicate that most of the inland trips are less than 50 miles away, meaning that only 12% of trucks would need to charge longer than 48 minutes. Based on the queuing space assumptions, trip distribution profiles, and energy demand estimates, the queuing analysis indicates that the potential facility layouts at the two identified parcels could serve 96 percent of charging demand on an average day and 88 percent of charging demand on a peak day.

Figure 4. Conceptual site layout for the public access charging facility

Figure 5. 900 Anaheim Street Parcel with Queuing Locations

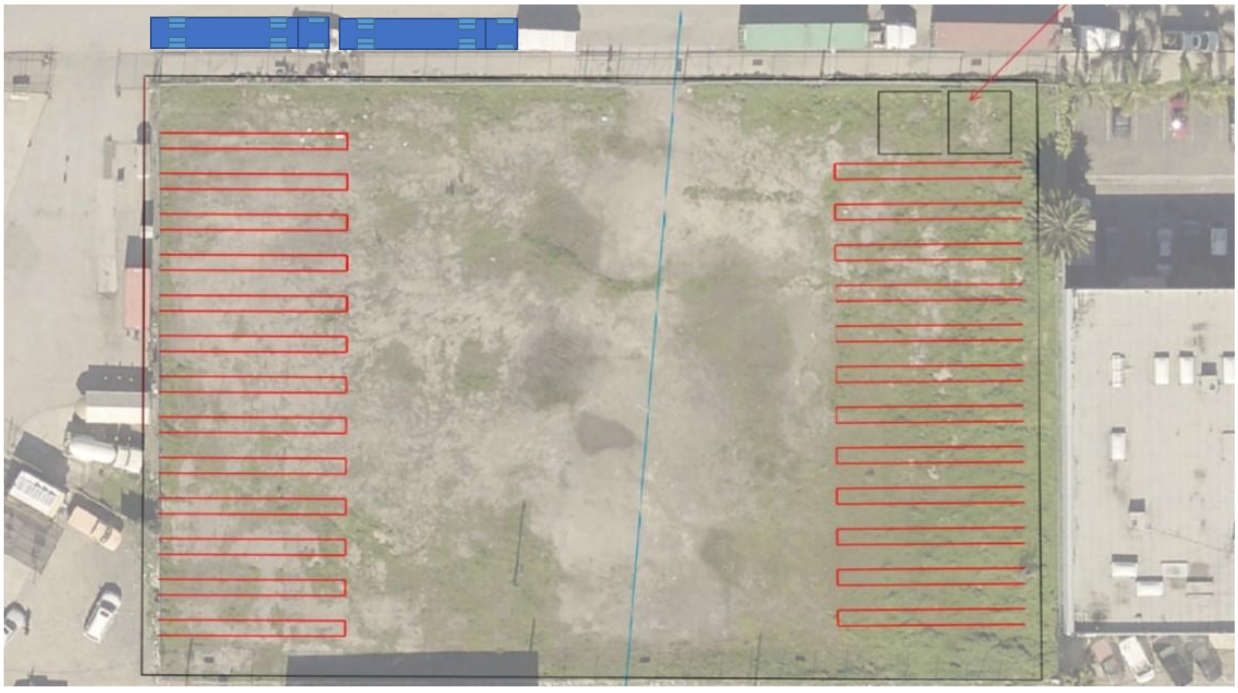


Figure 6. 1480 East I Street Parcel with Queuing Locations

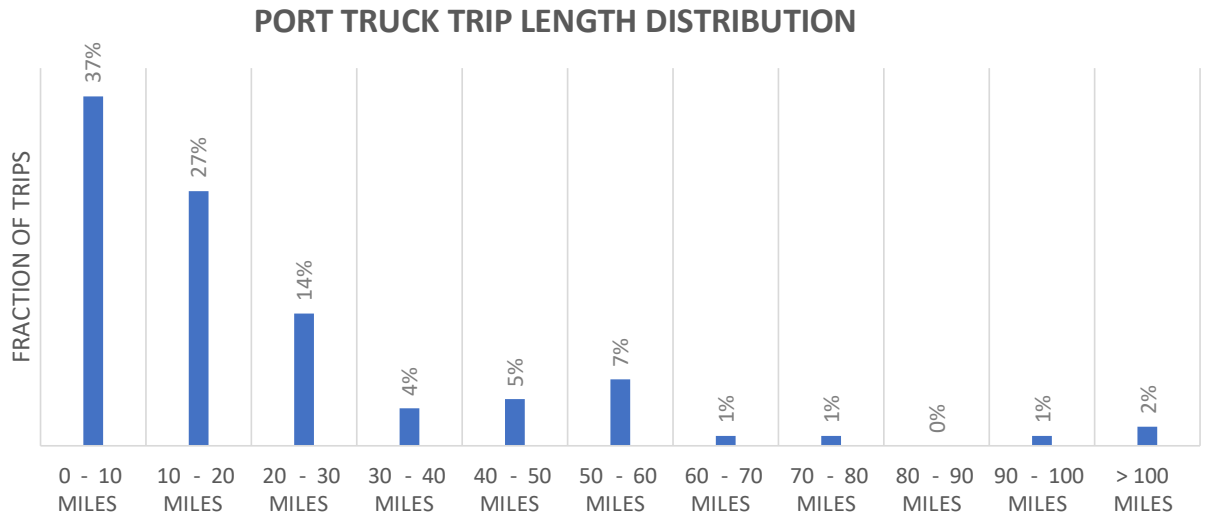


Figure 7. Distribution of Port Truck Trip Lengths

Charging Interface Assumptions

Heavy-duty vehicles in the US currently rely on the Combined Charging System (CCS) interface or manufacturer-specific proprietary interfaces. The North American version of the CCS interface, known as CCS Type 1 or CCS-1, is currently the most commonly used interface for Class 8 battery-electric trucks as manufacturers have moved away from proprietary interfaces. The current version of the CCS standard allows for charging rates of up to 350 kW. Charging rates in excess of approximately 175 kW typically require special liquid cooled cables. These cooled cables also tend to be limited in length, making head-in stall parking of the type assumed in the current site design more difficult to accommodate. Consequently, charging rates of 150 kW, using non-cooled cables, at nominal charging voltages of 750-1,000 volts direct current (VDC) are assumed in the current design. This charging rate is consistent with current Class 8 battery-electric trucks, though the Volvo VNR electric is anticipated to increase its charging rate to 250 kW in the near future.

It is also recognized that a coalition of vehicle and infrastructure manufacturers are currently developing the Mega Charging Standard (MCS) that would define requirements for charging rates of up to 3,000 kW. The timing for commercial release of any truck capable of utilizing the MCS is unknown but anticipated to be at least two years away. Further, no on-road truck utilizing the MCS is expected to support charging rates of 3,000 kW initially. However, the evolving landscape of charging standards and power levels highlights the need for charging facilities to be designed to accommodate future upgrades to new charger/dispenser technologies and higher power levels.

Site Access to Power

The proposed sites do not currently have sufficient installed power capacity to support the conceptual charging infrastructure design. The site is in the vicinity of a 34.5 kilovolts (kV) distribution circuit owned by Los Angeles Department of Water and Power (LADWP). Preliminary estimates for the parcels indicate that the required utility supply could reach 6,000 kW during average or peak days (Figure 8 and Figure 9). Discussions with LADWP indicate that the 34.5 kW circuit should have sufficient power to supply the site. However, LADWP rules effectively limit the maximum power supplied to a single 480V service to 3,750 kW. To meet each parcel's power demand, separate service entrances for each parcel would be required

to limit power delivery to 3,750 kW, or the sites would be required to receiving utility supply at 4,160V or higher. Receiving power at higher voltages is technically possible but entails greater footprints for service entrance equipment, transformers, and switchgear, potentially reducing the number of charging stalls at each location. Alternatively, energy storage could be deployed to mitigate peak loads but would still require additional footprint that may reduce the number of charging stalls.

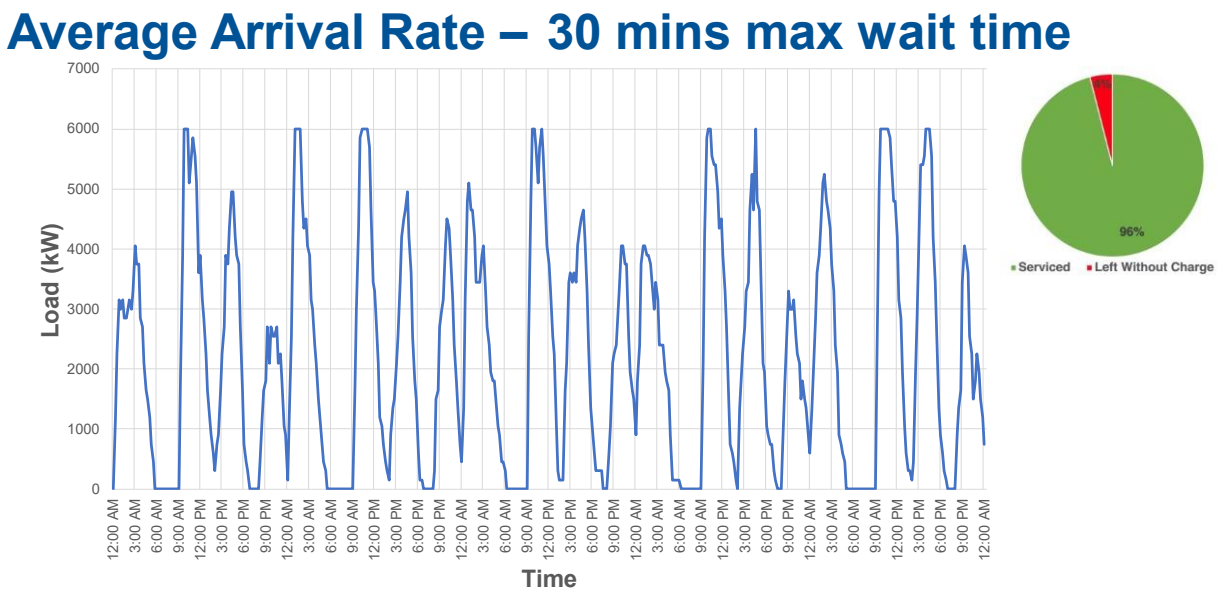


Figure 8. Modeled Aggregate Load Profile and Fraction of Trucks Served – Average Day

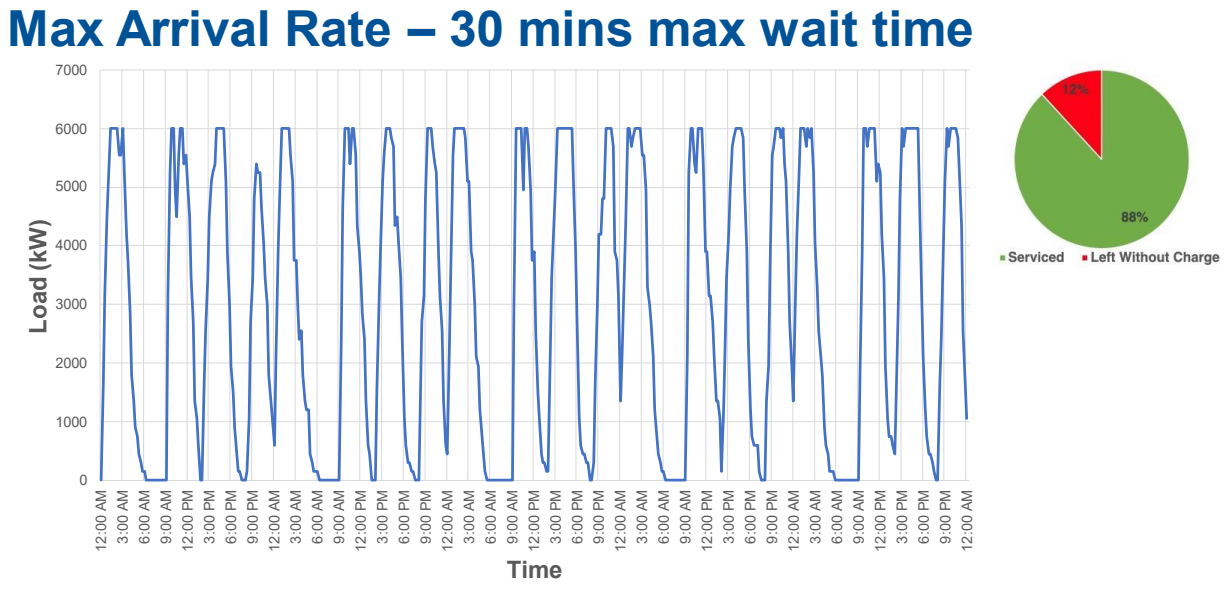


Figure 9. Modeled Aggregate Load Profile and Fraction of Trucks Served – Peak Day

Grid Impacts from the Potential Site

LADWP currently operates utility infrastructure serving 1.5 million residents. In 2020, the system peak load was 6,502 megawatts (MW) and annual average load was approximately 2,400 MW. The peak load of the potential site represents less than 0.1 percent of LADWP's peak load in 2020, consequently the site is not expected to have any significant systemwide impacts. Locally, LADWP anticipates that sufficient power is available from the 34.5 kV distribution system, again indicating that the site will not create significant grid impacts.

Table 1. LADWP System Statistics

Size Indicator	Los Angeles Department of Water and Power[3]
Service Territory (mi^2)	464
Service Population (ppl)	1,500,000
2020 retail sales (MWh)	21,130,000
2020 peak load (MW)	6,502[4]
2020 Capital Projects Budget ($)	1,600,000,000[5]

More broadly, full electrification of the drayage fleet is likely to create significant regional electrical grid impacts. Current estimates by the Ports indicate that much of the daily energy requirements for the drayage fleet would be supplied overnight, with some trucks operating only single shifts and having as much as 14-16 hours available for charging.[6] Based on the weighted average charging rates required for the fleet, it is estimated that total power demand could peak at 2.5 gigawatts (GW) for a 14,000-truck fleet and 3.4 GW for a 19,000-truck fleet. While this is clearly a substantial new electrical load, it only represents about four to 10 percent of the combined peak load of 30 GW in the LADWP and Southern California Edison territories. Additionally, because much of this load is likely to occur predominantly during off-peak periods, EV charging can serve to level the overall demand curves for each utility and potentially reduce costs across the system. Despite these benefits and the relatively small increase in region-wide aggregate load represented by a potential electric drayage fleet, it must also be recognized that these loads would be concentrated in regions where trucks currently park and would create more acute utility infrastructure challenges than if they were spread across utility service territories.

Site Construction Costs and Timelines

The potential site considered in this study represents a type of charging facility that does not currently exist in the United States. Limited examples of public access charging facilities for Class 8 trucks are in operation, including:

- Pier S (Port of Long Beach) – 2 lane, pull through style[7] charging facility.
- Energy Island (Portland, Oregon) – 4 lane, pull through style charging facility with 150-350kW dispensers. Expansion to demonstrate MCS equipment in progress.

[3] Los Angeles Department of Water & Power, "Briefing Book: 2019-2020", https://www.ladwp.com/cs/idcplg?IdcService=GET_FILE&dDocName=OPLADWPCCB629209&RevisionSelectionMethod=LatestReleased.
[4] This peak was set in 2017. Demand reductions since 2017 have reduced this figure in 2020 but specific values were not readily available.
[5] LADWP reported this amount of its budget dedicated to capital projects.
[6] San Pedro Bay Ports, "Drayage Truck Feasibility Assessment", 2022
[7] Refers to chargers located on a central island between the charging lanes, similar to the configuration of diesel and gasoline pumps seen at traditional fueling stations.

Further, companies such as WattEV are developing sites intended to eventually act as high power, electric "truck stops" providing rapid charging for up to 40 trucks. However, the Port recognizes there are many unknowns and concepts left to be proven out for facilities at this scale. The potential site configuration examined by the Port may need to be augmented by access controls, attendant facilities, signage and point-of-sale systems, and other details not explicitly considered in the current study. Given these caveats, the Port estimates that the minimum construction costs for the site would be $5.8 million, with COVID-related impacts potentially increasing this total by as much as 20%. These costs could be significantly higher should additional site features be required and/or site specific issues arise (e.g., traffic impacts, site remediation, adjacent incompatible uses, etc.). The estimated timeline for design, permitting, and utility supply is two years. Additional one year is anticipated for construction and commissioning of the facility.

Charging Cost Estimates

The average cost of electricity to the site was estimated using the load profiles shown in Figure 8 and Figure 9 under LADWP's applicable commercial A-3 rate. LADWP provides $0.015 per kWh discount for electricity supplied to EV charging and this discount was included in the cost analysis. The resulting cost of electricity for average arrival rates over the year is summarized in Table 2. Total annual costs are $2.63 million and an average cost of $0.187 per kWh.

Table 2. Estimated Electricity Costs under TOU-A3 Tariff

Energy Charges	Demand Charges	Fixed Charges	Total Bill	Energy (kWh)	Average Cost ($/kWh)
$1,474,081	$1,156,320	$900	**$2,631,301**	14,102,513	**$0.187**

The cost of electricity is assumed to be the dominant operating cost. Equipment maintenance costs, attendant salaries, point of sale charges, and other costs would add to the total operating cost of the facility. However, as these costs are not well known for first of its kind facility such as the one considered in this study, only electricity costs are considered. In addition to operating costs, capital recovery must be considered. Assuming a 10-year recovery period and a discount rate of 3 percent, capital recovery adds approximately $0.036 per kWh to the delivered cost of electricity, resulting in an estimated cost of $0.22 per kWh. Construction costs are not well known at this point and could be significantly underestimated, but would likely place the delivered cost of charging in the range of $0.22 to $0.30 per kWh. These costs do not include profit or savings for future system upgrades or equipment replacements. It is noteworthy that these costs are not significantly lower than pricing charged by commercial network operators like Electrify America ($0.31 per kWh at the time of this report) and may suggest that such facilities could most efficiently be constructed and operated by established network operators.

Summary

The Port's established goal of zero-emission drayage by 2035 will require extensive investments in zero-emission charging infrastructure in Southern California. While the majority of charging is likely to occur overnight at fleet facilities and at retail charging stations, there is a potential benefit to a limited use, public access station in or near the Port that serves to support inland trip destinations. Specifically, the facility would be intended to provide sufficient supplemental charging to allow a truck to return to an inland facility or retail charging location where routine charging could occur. The estimated charging needs estimated in this study to support inland trips is well matched to the potential site configuration proposed at the two parcels located at 900 Alameda Street and 1480 East I Street in Wilmington. Charging capacity met 96 percent of estimated charging demand on an average day and 88 percent of demand on a peak day using a total of forty 150 kW chargers using a CCS-1 interface. While charging standards and truck designs are likely to significantly increase charging speeds, such increases at the site do not appear necessary to support inland trips for the current fleet, as 87% of trucks would require fewer than 48 minutes of charging to reach their destination under this charging configuration.

Current utility circuits near the site appear to have sufficient power to support the projected power demands. However, the delivery of electricity to each parcel will be limited to 3,750 kW at 480V, placing an upper limit on the site power of 7,500 kW. Higher power levels could be delivered to each parcel using higher delivery voltages of 4,160V or greater, but receiving power at these levels will likely entail reductions in the number of charging stalls to accommodate additional medium voltage equipment. Higher power levels are not currently anticipated to be required unless the peak charging rates supported at the site are increased above approximately 150 kW.

The delivered cost of electricity is estimated at $0.22 per kWh but this pricing is based on high level cost estimates that could be significantly underestimated. Because this facility would be the first of its kind in the United States, it is difficult to provide more precise estimates without extensive site design efforts. Consequently, a range of $0.22 to $0.30 per kWh is considered more likely and would be similar to some commercial charging network operators, suggesting that a commercially developed facility could be a viable or even preferable option.

EXHIBIT D
FINANCIAL PROPOSAL FORM

The proposed rent presented in this financial proposal form will be considered to be a formal offer subject to acceptance by the Harbor Department. Subject to acceptance by the Harbor Department, the Proposer's proposed rent on this form will be populated into the Term Permit – Section 4.2.

Proposers must complete the Total Proposed Rent field to be considered a valid offer amount.

TOTAL PROPOSED RENT PER YEAR[1, 2, 3]
$_____

[1]Minimum Rent Offer is $345,000.00 per year, commencing on the Effective Date. Proposals containing rent offers of less than $345,000.00 per year will be deemed non-responsive.

[2] Rent is subject to adjustment per the terms of the Term Permit. See Sections 4.2 and 4.3 of the draft Term Permit

[3]Harbor Department is expecting the Effective Date to occur on or before December 31, 2024. In the event the Effective Date occurs after December 31, 2024, the Harbor Department will increase the rent offer by the year over year increase in the Consumer Price Index.

Date: _____/____/_____

Proposer Entity Name: _____

Signed: _____/_____

(Signature) (Printed name)

Title: _____

INDEPENDENT CONTRACTOR AGREEMENT

This Independent Contractor Agreement (the "**Agreement**"), dated as of [DATE], is entered into by and between the Los Angeles Cleantech Incubator, a California nonprofit public benefit corporation ("**LACI**") and [CONTRACTOR NAME], [STATE OF ORGANIZATION] [ENTITY TYPE] ("**Contractor**" and together with LACI, the "**Parties**", and each, a "**Party**").

RECITALS

LACI wishes to engage Contractor through this Agreement to perform certain services for LACI, and Contractor desires to perform such services, each upon the terms and conditions as hereinafter set forth.

NOW, THEREFORE, in consideration of the mutual promises of the parties, and other good and valuable consideration (the receipt and sufficiency of which are acknowledged hereby), LACI and Contractor agree as follows:

AGREEMENT

1. Engagement of Contractor

Subject to the terms and conditions set forth in this Agreement, LACI hereby engages Contractor and Contractor hereby agrees to be so engaged, to provide the "**Work**" (as defined in Section 2 below) in support of the "**Project**" as described in **Exhibit A**.

2. Work

2.1. Provision of Services. Contractor shall provide the services, functions, and responsibilities ("**Work**") at all times with the highest professional skill and diligence and in accordance with all applicable law, and in strict compliance with the approved Contractor specifications described in the Statement of Work ("**SOW**") attached hereto as **Exhibit A** and incorporated herein by this reference. The Work shall also include any activities (whether or not specifically described in the SOW) that are necessary for, and inherent to, the proper performance of the services, functions, and responsibilities that are described in the SOW. Contractor shall also perform the work in strict compliance

with LACI's Insurance Requirements (**Exhibit B**) and Administrative Requirements (**Exhibit C**). Copies of **Exhibits B-C** are attached hereto and incorporated by reference.

2.2. Acceptance. LACI shall have the right to monitor performance of one or more aspects of the Work and to notify Contractor if LACI determines that performance of the Work does not meet the requirements of the SOW. If LACI so notifies Contractor, Contractor shall take prompt action to make such Work acceptable. If Contractor is unable to make such Work reasonably acceptable to LACI within a reasonable period of time, LACI may refuse to accept such Work and shall be relieved of its obligation to pay for it. In addition, if LACI deems that the Work is not acceptable after multiple attempts by Contractor and that the Work refused is material to the successful completion of the Project, LACI shall have the right to terminate this Agreement, in addition to all other rights and remedies available to Contractor under this Agreement at law or in equity.

3. Compensation

As sole and exclusive consideration to Contractor for providing the Work, LACI shall pay Contractor the fees and reimburse the expenses (the "**Compensation**") set forth in the SOW, provided that LACI has determined, in accordance with reasonable acceptance criteria that the Work of Contractor for which compensation is due complies with the SOW in all material respects. Unless otherwise expressly provided for in the SOW, the rate of and total amount of Compensation shall not exceed the rate and amount set forth in the budget listed in the SOW. LACI shall make payments as stated on **Exhibit A**. Contractor shall maintain full and complete records relevant to the Work provided under this Agreement, which shall be made available to LACI upon request and for a period of no less than three (3) years after completion or earlier termination of this Agreement.

4. Representations and Warranties

4.1. Performance. Contractor represents and warrants that it has the qualifications and skills necessary to and shall perform the Work under this Agreement in a competent, professional manner; the Work shall be performed in a manner satisfactory to LACI and in accordance with the SOW and with commercially reasonable standards; Contractor shall at its cost prepare and deliver to LACI such reports as are reasonably required from time to time by LACI; and failure to perform all the Work required under this Agreement constitutes a material breach of this Agreement.

4.2. Power and Authority; Binding Obligation. Contractor represents and warrants that it has the full power and authority to enter into this Agreement and perform the Work; the execution, delivery and performance of this Agreement have been authorized by all requisite corporate action; and this Agreement constitutes the legal, valid and binding obligation of Contractor.

4.3. No Violation. Contractor represents and warrants that it possesses all licenses, permits and certifications required to operate its business and to perform its obligations under this Agreement, and shall provide copies of the foregoing to LACI if LACI so requests; Contractor is in full compliance with all applicable laws, rules and regulations, and the execution, delivery and performance of its obligations under this Agreement will not violate any of the foregoing.

4.4. No Infringement. Contractor represents and warrants that the provision and uses of the Work will not violate or infringe any third party rights, including, without limitation, all intellectual property rights.

4.5. Pre-Existing Obligations. Contractor represents and warrants that Contractor has no pre-existing obligations or commitments (and will not assume or otherwise undertake any obligations or commitments) that are directly competitive or would hinder Contractor's performance of its obligations under this Agreement.

4.6. Records. Contractor represents and warrants that it shall maintain and retain all records in connection with the Work as required by and for the time required by all applicable law, regulations and rules. Notwithstanding the foregoing, Contractor shall maintain and retain the records in connection with the Work for a period of not less than three (3) years after completion or earlier termination of this Agreement.

4.7. Remedies. Without limiting any of LACI's rights under this Agreement or at law or in equity, if Contractor fails to fulfill any of the warranties set forth in this Section 4, Contractor shall take all necessary or appropriate actions to correct such failure, at no cost to LACI, except for those actions required by LACI beyond what would be reasonably required to correct such failure.

5. Confidential Information and Proprietary Documents

Contractor acknowledges that Contractor may acquire information and materials from LACI, LACI portfolio companies, and subusers of the La Kretz Campus (collectively, the "**Disclosing Parties**"), regarding knowledge about the business, financial condition, products, programming techniques, experimental work, customers and suppliers of such entities or persons and that all such knowledge, information and materials acquired, and the existence, terms and conditions of this Agreement, are and will be the trade secrets and confidential and proprietary information of the Disclosing Parties (collectively, the "**Confidential Information**"). Confidential Information will not include, however, any information that is or becomes part of the public domain through no fault of Contractor or the Disclosing Parties or which the Disclosing Parties regularly give to third parties without restriction on use or disclosure. Contractor agrees to hold all such Confidential Information in strict confidence, not to disclose it to others or use it in any way, commercially or otherwise, except in performing the Services, and not to allow any unauthorized person access

to it, either before or after expiration or termination of this Agreement. Contractor further agrees to take all action reasonably necessary and satisfactory to protect the confidentiality of the Confidential Information including, without limitation, implementing and enforcing operating procedures to minimize the possibility of unauthorized use or copying of the Confidential Information.

In the event of any disclosure (including any suspected disclosure) or loss of, inability to account for, or unauthorized access to any Confidential Information, Contractor shall (1) notify LACI promptly upon becoming aware of such disclosure (or suspected disclosure) or loss, and (2) take any actions reasonably requested by, and provide all reasonable cooperation with, the Disclosing Parties to minimize the disclosure or loss and mitigate any damage associated with such disclosure or loss.

All surveys, estimates, calculations, drawings, specifications, CAD files, 3D computer models, computations, test data, survey results, sketches, designs, renderings, models, photographs, and other like documents, materials, data files and other written work product prepared or obtained by Contractor or its subcontractors in connection with and/or the rendering of the Work (collectively, the "**Proprietary Documents**") constitute part of the Work, and such Proprietary Documents shall be and remain the exclusive property of LACI, and may be used by LACI for any purpose.

6. Indemnity

To the fullest extent permitted under applicable law, Contractor shall, at all times, defend, indemnify and hold harmless LACI and any and all of its respective parents, partners, subsidiaries, affiliates, employees, agents, officers, directors, and representatives and any and all of their respective successors and assigns (collectively, the "**Indemnified Parties**") in connection with:

6.1. All claims, liabilities, obligations, demands, damages, losses, fines, penalties, actions, judgments, suits, costs, expenses or disbursements of any kind, or nature whatsoever, including but not limited to reasonable attorneys' fees (collectively, "**Losses**"), that may be imposed on, incurred by or asserted against any Indemnified Party in any way relating or arising out of this Agreement, any Work contemplated hereby or any results of the Work (including any Innovations) or an Indemnified Party's use thereof, infringe, misappropriate or violate any patent rights, copyright rights, mask work rights, trade secret rights or any other intellectual property or proprietary rights, including, but not limited to, for such Losses caused by, arising from, or related to the acts or omissions of Contractor, its parents, partners, subsidiaries, affiliates, employees, agents, officers, directors, and representatives and any successors and assigns through which Contractor performs Work for LACI;

6.2. All Losses imposed or sought to be imposed upon any Indemnified Party to pay any withholding taxes, Social Security, unemployment or disability insurance, employee

benefits or similar items, including interest and penalties thereon, in connection with claims therefore made against LACI by any governmental entity, regulatory authority or third party;

6.3. All Losses imposed or sought to be imposed upon any Indemnified Party as a result of loss of use, by reason of injury to, disability or death of, any person, arising from, resulting in any manner directly or indirectly from or connected with or in the course of the performance of the Work; and

6.4. All Losses imposed or sought to be imposed upon and Indemnified Party based on any negligent act or omission or willful conduct of Contractor and which results in: (i) any bodily injury, sickness, disease or death; (ii) any injury or destruction to tangible or intangible property (including computer programs and data) or any loss of use resulting therefrom; or (iii) any violation of any statute, ordinance, or regulation.

7. Term

The term of this Agreement will commence on the date first written above and end on [TERMINATION DATE] unless sooner terminated as provided for in this Agreement or extended by mutual written agreement of the parties (the "**Term**").

8. Termination

As sole and exclusive consideration to Contractor for providing the Work, LACI shall pay Contractor the fees and reimburse the expenses (the "**Compensation**") set forth in the SOW, provided that LACI has determined, in accordance with reasonable acceptance criteria that the Work of Contractor for which compensation is due complies with the SOW in all material respects. Unless otherwise expressly provided for in the SOW, the rate of and total amount of Compensation shall not exceed the rate and amount set forth in the budget listed in the SOW. Contractor shall submit an invoice to LACI on a monthly basis for any undisputed amounts. Provided the Work is acceptable to LACI, LACI shall make payments within thirty (30) days of receiving the invoice. Contractor shall maintain full and complete records relevant to the Work provided under this Agreement, which shall be made available to LACI upon request and for a period of no less than three (3) years after completion or earlier termination of this Agreement.

9. Effect of Termination

Upon the expiration or termination of this Agreement, (i) Contractor shall have no claim against LACI for any damages which may arise as a result of the expiration or termination, unless such damages arise from the breach of a provision of this Agreement by LACI. The expiration or termination of this Agreement will not relieve LACI from its obligations to pay Compensation in

accordance with Section 3 for Work rendered in accordance with this Agreement prior to such expiration or termination, and (ii) Contractor will promptly notify LACI of all Confidential Information, including, but not limited, to any Innovations, in Contractor's possession or control and, at Contractor's expense and in accordance with LACI's instructions, will promptly deliver to LACI all such Confidential Information.

10. Dispute Resolution

10.1. Procedures. Except as otherwise expressly provided in this Agreement, any controversy or dispute relating to or arising out of this Agreement, the interpretation of any of its provisions, its enforcement, arbitrability or because of an alleged breach, default or misrepresentation in connection with any of its provisions, must be submitted to arbitration. Such arbitration will be administered by one arbitrator in accordance with the arbitration rules of JAMS and administered by JAMS (unless the parties agree in writing to another arbitration firm) at JAMS Los Angeles, California office (unless the parties agree in writing to another location) pursuant to JAMS' then current commercial arbitration rules, as modified by the terms and conditions contained in this paragraph, applying California substantive law. The arbitrator shall be selected by mutual agreement of the parties; provided that absent such agreement within fifteen (15) days after the commencement of arbitration, each party will nominate a neutral and impartial arbitrator in writing within fifteen (15) days thereafter. Those two arbitrators will confer in good faith to select a third neutral and impartial arbitrator within fifteen (15) days of the day the last arbitrator is nominated by the parties. If the two arbitrators cannot select such an arbitrator within the allotted time frame, then the JAMS will select the third neutral and impartial arbitrator within fifteen (15) days thereafter. If one of the parties does not select an arbitrator within the initial fifteen (15) day period, then the sole arbitrator selected will arbitrate the matter submitted to arbitration. Any award or decision obtained from any such arbitration proceeding will be final and binding on the parties, and judgment upon any such award can be entered in any court having jurisdiction. No action at law or in equity based upon any claim arising out of or related to this Agreement will be instituted in any court by any party except an action to compel arbitration pursuant to this Section 10(a) or an action to enforce an award obtained in an arbitration proceeding in accordance with this Section 10(a).

10.2. Cost and Expenses. The party that loses the arbitration proceeding will bear its own costs and fees as well as the reasonable costs and fees of the prevailing party. In the event of a dispute as to which party has prevailed in an arbitration under this Section 10(b), or the amount of the reasonable costs or fees incurred by the prevailing party, or both, such matter will be referred, within fifteen (15) days after the date the award in the related matter has been rendered, to the same arbitration panel that rendered the award, for resolution of the question of which party was the prevailing party or for a determination of the amount of costs and fees that was reasonable, or both.

11. Notices

All notices, requests, demands and other communications required or permitted to be given by this Agreement shall be in writing and shall be deemed to have been given upon delivery if delivered by hand, via telephone, electronic mail, facsimile or by overnight mail express, or three (3) days after such notice is deposited in the U.S. mail, certified mail, return receipt requested, postage prepaid:

If to LACI:
Los Angeles Cleantech Incubator
Attn: SVP, Operations and Finance
525 S. Hewitt Street
Los Angeles, CA 90013
Email: contracts@laincubator.org
Telephone: (213) 358-6508

If to Contractor:
[NAME OF CONTRACTOR]
[ADDRESS OF CONTRACTOR]
Email: [EMAIL OF CONTRACTOR]
Telephone: [TELEPHONE NUMBER]

12. Injunctive Relief

Damages may not be an adequate remedy in the event of a breach of obligations under this Agreement. The parties therefore agree that either party shall be entitled (without limitation of any other rights or remedies otherwise available and without the necessity of posting a bond) to obtain an injunction from any court of competent jurisdiction prohibiting the continuance or recurrence of any breach of this Agreement.

13. Relationship of Parties

13.1. Independent Contractor. Contractor is an independent contractor and is not an agent or employee of, and has no authority to bind, LACI by contract or otherwise. Contractor will perform the Work under the general direction of LACI, but Contractor will determine, in Contractor's sole discretion, the manner and means by which the Work is accomplished, subject to the requirement that Contractor shall at all times comply with applicable law. LACI shall regularly communicate and consult with Contractor as to the manner or means by which the Work is accomplished.

13.2. Employment Taxes and Benefits. LACI shall not withhold from the Compensation any taxes or other amounts that would otherwise be withheld from an employee of LACI. Contractor shall be solely responsible for the payment of any taxes imposed on the performance of the Work or its receipt of the Compensation. Contractor shall be solely responsible for the payment of any and all taxes, including but not limited to, withholding of income taxes, payment of estimated income taxes, Social Security taxes, State Disability Insurance taxes, and employer's liability for work-related disabilities with respect to or in connection with the personnel through whom Contractor performs the Work. Upon LACI's request, Contractor shall provide evidence, satisfactory to LACI, of compliance with this Section, including, but not limited to, evidence of Workers' Compensation coverage and payment of employment related taxes. In addition, Contractor will not be entitled to receive any vacation or illness payments, or to participate in any plans, arrangements, or distributions by LACI pertaining to any bonus, equity plan, profit sharing, insurance or similar benefits for LACI's employees.

14. Liability Insurance

Contractor will maintain insurance to protect Contractor from the following: (i) claims under workers' compensation and State Disability acts; (ii) claims for damages because of bodily injury, sickness, disease or death that arise out of any negligent act or omission of Contractor; and (iii) claims for damages because of injury to or destruction of tangible or intangible property, including loss of use resulting therefrom, that arise out of any negligent act or omission of Contractor. Contractor shall, at its own expense, procure and maintain policies of insurance which meet or exceed the coverages, limits of insurance, and other requirements set forth on **Exhibit B**, attached hereto.

15. General Provisions.

15.1. Compliance with Laws. Contractor shall at all times observe and comply with all municipal, state and federal laws, rules and regulations and all applicable City of Los Angeles rules, regulations and requirements now in force or which may hereafter be in force. In addition, Contractor shall be responsible for complying with all applicable present or future rules, regulations, restrictions, ordinances, statutes, laws or orders of a federal, state or local governmental entity regarding airfield security.

15.2. Equal Opportunity. Contractor shall maintain policies of employment as follows: Contractor and any of Contractor's Contractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin; (ii) Contractor shall take action to ensure that employees are treated during employment without regard to their race, religion, color, sex or national origin, and (iii) Contractor shall post in conspicuous places, available to employees and applicants for employment, notices setting forth its policies regarding non-discrimination.

15.3. Solicitations and Advertisements. Contractor and any of Contractor's Contractors shall, in all solicitations or advertisements for employees placed by them or on their behalf, state that all qualified applicants will receive consideration for employment without regard to race, religion, color, sex or national origin. To the extent applicable, during the performance of the Agreement, LACI and Contractor hereby incorporate by reference the provisions set forth in 41 C.F.R. § 60-1.4, § 60-250.5 and § 60-741.5, which provisions apply to all nonexempt contractors and vendors.

15.4. Administrative Requirements. Contractor shall comply with, and shall cause each of its Contractors to comply with, the Administrative Requirements attached hereto as **Exhibit C**, and shall include the Administrative Requirements attached hereto as **Exhibit C** as affirmative obligations in each Agreement or agreement between it and its Contractors. Contractor also shall require in each Agreement or agreement between it and its Contractors that each of its Contractors comply with, and cause each of its Contractors to comply with, the Administrative Requirements attached hereto as **Exhibit C** and that each Contractor include the Administrative Requirements attached hereto as **Exhibit C** as affirmative obligations in each Agreement or agreement between it and its Contractors.

15.5. Safety. Contractor shall be responsible for initiating, maintaining, supervising, and enforcing all safety precautions and programs as required by applicable federal, state and local laws, codes and regulations in connection with the performance of the Work. Contractor shall, while upon or about the premises where the Work is being performed, observe and comply with all applicable federal, state and local safety and fire laws, rules and regulations, including those heretofore or hereafter prescribed by LACI, and shall be responsible for observance thereof by all of Contractor's employees, agents, licensees, permittees, and subcontractors. Contractor shall take all reasonable and necessary precautions to protect all property and persons from damage or injury arising out of the Work. Contractor shall keep the premises and vicinity of the Work clean of debris and rubbish caused by Contractor's Work, and at the completion of the Work shall leave the premises and vicinity of the Work clean and ready for use.

15.6. No Debarment. LACI shall not contract with any party which is debarred, suspended, or otherwise excluded from participation in Federal assistance programs. Contractor hereby self-certifies that Contractor is not a debarred party.

15.7. Reports and Investigations. Contractor shall recommend to LACI the obtaining of such investigations, surveys, tests, analyses and reports as may be necessary for the proper execution or performance of the Work.

15.8. Governing Law and Venue. This Agreement will be construed and enforced in accordance with the internal laws of the State of California irrespective of its conflicts of law rules. The parties hereby consent to the jurisdiction of, and venue in, the federal and

state courts of Los Angeles County, Los Angeles, California to enforce any arbitration award.

15.9. Entire Agreement. This Agreement (and all recitals, and all schedules and exhibits attached hereto, which are hereby incorporated by reference) constitutes the entire understanding between the parties and replaces and supersedes any and all prior and contemporaneous agreements and understandings, whether oral or written, express or implied, between the parties with respect to the subject matter hereof.

15.10. Amendment. Except as otherwise provided herein, neither this Agreement nor any of its provisions may be amended, supplemented, modified or waived except by a writing duly executed by each of the parties hereto.

15.11. Waiver. No waiver of any provision or consent to any action hereunder will constitute a waiver of any of the other provisions or consent to any other action, nor will such waiver or consent constitute a continuing waiver or consent or commit any party to provide a past or future waiver or consent.

15.12. Rights Cumulative. The rights, privileges and remedies provided for herein are cumulative and are not exclusive of any other rights, privileges or remedies provided by law or equity. The assertion of any right, privilege or remedy hereunder shall not prevent the concurrent or successive assertion of any other appropriate right, privilege or remedy.

15.13. Severability. If any provision of this Agreement is determined to be illegal, invalid or otherwise unenforceable by an arbitrator, court or tribunal of competent jurisdiction, then to the extent necessary to make such provision and/or this Agreement legal, valid or otherwise enforceable, such provision will be limited, construed or severed and deleted from this Agreement, and the remaining portion of such provision and the remaining other provisions hereof will survive, and remain in full force and effect.

15.14. Successors and Assigns. This Agreement will be binding upon and inure to the benefit of the parties and their respective successors and permitted assigns.

15.15. Assignment. This Agreement is not assignable or delegable in whole or in part by Contractor without the prior written consent of LACI, and any assignment or attempt to assign, or delegation or attempt to delegate in violation of this Section will be of no force or effect.

15.16. No Third-Party Rights. This Agreement is made solely for the benefit of the parties hereto and does not, and will not be construed to, grant any rights or remedies to any other person or entity other than as expressly provided for in this Agreement.

15.17. Construction. The normal rule of construction that an agreement will be interpreted against the drafting party will not apply to this Agreement.

15.18. Interpretation. In this Agreement, whenever the context so requires, the masculine, feminine or neuter gender, and the singular or plural number or tense, will include the others.

15.19. Headings. Headings and captions are for convenience only and are not to be used in the interpretation of this Agreement.

15.20. Counterparts. This Agreement may be executed in one or more counterparts, each of which will be deemed an original and all of which taken together shall constitute one and the same document. Executed copies of the signature pages of this Agreement sent by facsimile or transmitted electronically in Tagged Image Format Files ("**TIFF**"), Portable Document Format ("**PDF**"), DocuSign, EchoSign or similar web-based electronic signature content management or e-sign verification service, any of which shall be treated as an original, fully binding and with full legal force and effect, including, without limitation, under the Electronic Signatures in Global and National Commerce Act ("**ESIGN**") and the Uniform Electronic Transactions Act ("**UETA**"), and the parties waive any rights they may have to object to such treatment. Any party delivering an executed counterpart of this Agreement by facsimile or electronically also shall deliver a manually executed counterpart of this Agreement but the failure to deliver a manually executed counterpart shall not affect the validity, enforceability and binding effect of this Agreement.

15.21. Further Assurances. Each party shall execute and deliver all such further documents and instruments and take all such further actions as may be reasonably required or appropriate to carry out the intent and purposes of this Agreement.

[Signature Page to Follow]

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the Effective Date.

"**LACI**"

Los Angeles Cleantech Incubator
A California nonprofit public benefit corporation

By_____
Name: Matt Petersen
Title: Chief Executive Officer and President

"**CONTRACTOR**"

[NAME]
[STATE OF ORGANIZATION]
[ENTITY TYPE]

By_____
Name:
Title:

EXHIBIT A

STATEMENT OF WORK

This Statement of Work ("**SOW**"), adopts and incorporates by reference the terms and conditions of the Independent Contractor Agreement (the "**Agreement**"), which was entered into on [DATE] between Los Angeles Cleantech Incubator, a California nonprofit public benefit corporation ("**LACI**") and [CONTRACTOR NAME], [STATE OF ORGANIZATION] [ENTITY TYPE] ("**Contractor**") and together with LACI referred to as the "**Parties**", and each, a "**Party**", as it may be amended from time to time.

1. Project and Deliverables:

   1.1. Project Description: [INSERT BRIEF DESCRIPTION]

   1.2. Project Deliverables: [INSERT DELIVERABLES]

2. Professional Fees and Services:

   2.1. Contractor will be paid per the following payment schedule/hourly rate: [INSERT PAYMENT SCHEDULE OR HOURLY RATE]

   2.2. A maximum of [AMOUNT] will be paid during the term of this Agreement and may be extended at the same rate, with mutual consent by both parties. Payment will be due by LACI on receipt of an invoice for the month of service from Contractor in accordance with the terms outlined above.

   2.3. Reimbursable expenses if any, must be pre-approved in advance and in writing by LACI. Contractor agrees to submit an invoice to LACI for any reimbursable expenses and include relevant supporting documentation. Any and all expenses must be submitted by 30 days after end of this Agreement.

3. Additional SOW Terms and Conditions: [INSERT AS APPLICABLE]

EXHIBIT B

INSURANCE REQUIREMENTS

1. Insurance Requirements for Contractor

For all Agreements with a term maximum that exceeds $10,000, Contractor shall, at its own expense, maintain in effect not less than the following coverages and limits of insurance that shall be maintained with insurers, policy forms and deductibles satisfactory to LACI. If Contractor uses existing coverage to comply with these requirements and that coverage does not meet the requirements set forth herein, Contractor agrees to amend, supplement or endorse the existing coverage to do so, at no additional cost to LACI. Certificates and Endorsements shall be provided to LACI.

1.1. State Workers' Compensation – coverages as required by law.

1.2. General Liability Insurance. Contractor shall carry a Commercial General Liability Policy in the amount of no less that $1,000,000 provided on or equivalent to ISO CGL Form No. CG 00 01 10 01. Policy must include premises and operations, ongoing and completed operations, contractual liability, independent subcontractors, personal injury, products, and broad form property damage. The Commercial General Liability Policy required hereunder shall contain the following:

1.2.1. Project Specific Additional Insured Listing: "*Los Angeles Cleantech Incubator; and any and all of their respective parents, partners, subsidiaries, affiliates, employees, agents, officers and representatives and any and all of their respective successors and assigns, are named as additional insured, as their interests may appear*".

1.2.2. Contractual liability coverage, and such insurance as is afforded by the policy shall also apply to the negligence or other tortious conduct of Contractor or its subcontractors or suppliers or any other person or firm performing Work under the Agreement for which Contractor is responsible, or breach of the Agreement by Contractor, or the performance of defective or non-conforming Work.

1.3. Environmental Impairment Liability. If the Work contemplates handling or hauling other pollutants, Contractor will provide insurance to cover, among other things, claims arising out of all hazardous material and hazardous waste remediation, storage, transportation and disposal. Such insurance shall be written on an occurrence basis with no sunset clause, or on a claims-made basis with a minimum 5 year extended reporting period (tail) and with commercially reasonable limits for each occurrence (if written on an occurrence basis).

1.4. Automobile Insurance. Combined single limit coverage in commercially reasonable amounts to cover any automobile, hired automobiles and non-owned automobiles. Such coverage shall be endorsed to add each of the Indemnified Parties and their respective officers and agents as additional insureds on Contractor's policy for losses arising from activities and operations of the insured in the performance under or in connection with this Agreement, the insured's operations or other related functions.

1.5. Additional Insured Endorsements. Additional Insured Endorsement adding as an additional insured each party noted in Section 1 of this Exhibit with respect to liabilities arising out of Contractor's work under this Agreement.

2. Certificate of Insurance

On execution of the Agreement and prior to commencement of work, Contractor shall provide to LACI a certificate of insurance properly executed and signed by an authorized representative on behalf of the insurer(s) evidencing the above coverages and conditions. Contractor shall maintain the required Insurance and Additional Insured coverage for the period of time for which the Contractor may be held legally liable for its work. Contractor further agrees, upon written request by LACI to furnish copies of such policies, certified by an authorized representative of the insurer(s).

3. Standard of Insurance

All Insurance coverage provided by the Contractor shall be through acceptable insurance carriers licenses in the state(s) where work is being performed with a minimum A.M. Best Company standard of A-:VII or greater.

4. No Cancellation

All Contractor's policies, certificates and endorsements shall provide that the insurance will not be cancelled, reduced or not renewed, or materially changed before LACI has been given not less than thirty (30) days written notice.

5. Deductible Amounts

Contractor shall be responsible for the payment of any deductible amounts and the defense and indemnity obligations set forth in the Agreement in the event that an insurer does not participate in the defense and/or indemnity of a claim tendered by an insured party, including any Indemnified Party, pending exhaustion of a deductible or self-retention amount. It is the parties intent that the

ADDITIONAL INSUREDS, when applicable, shall be fully insured from the first dollar of any claimed loss.

6. Insured Equipment

CONTRACTOR SHALL BE HELD RESPONSIBLE FOR OWN OR HIRED EQUIPMENT AND SHALL HOLD EACH OF THE INDEMNIFIED PARTIES HARMLESS FROM LOSS, DAMAGE OR DESTRUCTION OF SUCH EQUIPMENT.

7. Additional Requirements

All coverages for independent contractors shall be subject to all of the requirements stated herein unless otherwise agreed to in writing by LACI.

EXHIBIT C

ADMINISTRATIVE REQUIREMENTS

1. Nondiscrimination and Affirmative Action Program

1.1. Federal Non-Discrimination Provisions. To the extent applicable, Contractor assures that it will comply with pertinent statutes, Executive Orders, and such rules as are promulgated to assure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or handicap be excluded from participating in any activity conducted with or benefiting from Federal assistance.

1.2. Municipal Non-Discrimination Provisions. During the term of the Agreement, Contractor agrees and obligates itself in the performance of the Agreement not to discriminate against any employee or applicant for employment because of the employee's or applicant's race, religion, national origin, ancestry, sex, sexual orientation, age, physical handicap, marital status, domestic partner status, or medical condition. Contractor shall take affirmative action to ensure that applicants for employment are treated, during the term of the Agreement, without regard to the aforementioned factors and shall comply with the affirmative action requirements of the Los Angeles Administrative Code ("**Code**"), Section 10.8, et seq., or any successor law concerned with discrimination.

1.3. Equal Employment Practices. During the term of the Agreement, Contractor agrees to comply with Section 10.8.3 of the Code ("**Equal Employment Practices**"), which is incorporated herein by this reference. By way of specification but not limitation, pursuant to Sections 10.8.3.E and 10.8.3.F of the Code, the failure of Contractor to comply with the Equal Employment Practices provisions of the Agreement may be deemed to be a material breach of the Agreement. No such finding shall be made or penalties assessed except upon a full and fair hearing after notice and an opportunity to be heard have been given to Contractor. Upon a finding duly made that Contractor has failed to comply with the Equal Employment Practices provisions of the Agreement, notwithstanding anything in the Agreement to the contrary, the Agreement may be forthwith terminated, cancelled, or suspended upon written notice by LACI.

1.4. Affirmative Action Program. During the term of the Agreement, Contractor agrees to comply with Section 10.8.4 of the Code ("**Affirmative Action Program**"), which is incorporated herein by this reference. By way of specification but not limitation, pursuant to Sections 10.8.4.E and 10.8.4.F of the Code, the failure of Contractor to comply with the Affirmative Action Program provisions of the Agreement may be deemed to be a material breach of the Agreement. No such finding shall be made or penalties assessed except upon a full and fair hearing after notice and an opportunity to be heard have been given to Contractor. Upon a finding duly made that Contractor has failed to comply with the Affirmative Action Program provisions of the Agreement, notwithstanding anything in

the Agreement to the contrary, the Agreement may be forthwith terminated, cancelled, or suspended upon written notice by LACI.

2. Prevailing Wage, Living Wage and Service Agreement Worker Retention Requirements

2.1. Prevailing Wage. Construction work performed on City of Los Angeles property will require payment of prevailing wages, if applicable. Contractor is obligated to make the determination of whether the payment of prevailing wages is applicable, and Contractor shall be bound by and comply with applicable provisions of the California Labor Code and Federal, State, and local laws related to labor. Contractor shall indemnify, defend and pay or reimburse LACI and the City of Los Angeles for all Claims arising from noncompliance with applicable prevailing wage laws in connection with the construction work performed in connection with the Agreement. As used in this Exhibit, "**Claims**" shall mean any and all actions, litigation, causes of action, proceedings, charges, claims, costs, damages, demands, defenses, suits, disbursements, expenses (including attorneys' fees, expert fees, costs of court and expenses incurred), fines, judgments, obligations, liabilities, liens, losses, or penalties of every kind and nature whatsoever that may at any time be imposed, incurred, asserted or awarded, including without limitation, any Claims for loss of business or any indirect, incidental, special, consequential, incidental or exemplary damages or lost profits.

2.2. Living Wage Ordinance.

2.2.1. General Provisions: Living Wage Policy. The Agreement is subject to the Living Wage Ordinance (the "**LWO**") (Section 10.37, et seq., of the Code, which is incorporated herein by this reference. The LWO requires that, unless specific exemptions apply, any employees of a Contractor who render services that involve an expenditure in excess of Twenty-Five Thousand Dollars ($25,000) and a contract term of at least 3 months are covered by the LWO if any of the following applies: (1) at least some of the services are rendered by employees whose work site is on property owned by the City of Los Angeles, (2) the services could feasibly be performed by City of Los Angeles employees if the awarding authority had the requisite financial and staffing resources, or (3) the designated administrative agency of the City of Los Angeles has determined in writing that coverage would further the proprietary interests of the City of Los Angeles. Employees covered by the LWO are required to be paid not less than a minimum initial wage rate, as adjusted each year. The LWO also requires that employees be provided with at least 12 compensated days off per year for sick leave, vacation, or personal necessity at the employee's request, and at least 10 additional days per year of uncompensated time pursuant to Section 10.37.2(b). The LWO requires employers to inform employees making less than the applicable LWO wage rate per hour of their possible right to the Federal Earned Income Tax Credit ("**EITC**") and to make available the forms required to secure advance EITC payments from the employer pursuant to Section 10.37.4.

Contractor shall permit access to work sites for LACI and/or City of Los Angeles representatives to review the operation, payroll, and related documents, and to provide certified copies of the relevant records upon request by LACI and/or the City of Los Angeles. Whether or not subject to the LWO, Contractor shall not retaliate against any employee claiming non-compliance with the provisions of the LWO, and, in addition, pursuant to Section 10.37.6(c), Contractor agrees to comply with Federal law prohibiting retaliation for union organizing. Contractor agrees and acknowledges that the City of Los Angeles, as the intended third-party beneficiary of this provision, may (i) enforce the LWO directly against the Contractor with respect to City of Los Angeles property, and (ii) invoke, directly against the Contractor with respect to City of Los Angeles property, all the rights and remedies available to City of Los Angeles under Section 10.37.5 of the LWO, as same may be amended from time to time.

2.2.2. Living Wage Coverage Determination. An initial determination has been made that this is a service agreement under the LWO, and that it is not exempt from coverage by the LWO. Determinations as to whether the Agreement is a service Agreement covered by the LWO, or whether an employer or employee is exempt from coverage under the LWO are not final, but are subject to review and revision as additional facts are examined and/or other interpretations of the law are considered. In some circumstances, applications for exemption must be reviewed periodically. LACI shall notify Contractor in writing about any redetermination by the City of Los Angeles of coverage or exemption status. To the extent Contractor claims non-coverage or exemption from the provisions of the LWO, the burden shall be on Contractor to prove such non-coverage or exemption.

2.2.3. Compliance; Termination Provisions and Other Remedies: Living Wage Policy. If Contractor is not initially exempt from the LWO, Contractor shall comply with all of the provisions of the LWO, including payment to employees at the minimum wage rates, effective on the execution date of the Agreement. If Contractor is initially exempt from the LWO, but later no longer qualifies for any exemption, Contractor shall, at such time as Contractor is no longer exempt, comply with the provisions of the LWO and execute the then currently used Declaration of Compliance Form, or such form as the LWO requires. Under the provisions of Section 10.37.6(c) of the Code, violation of the LWO shall constitute a material breach of the Agreement and notwithstanding anything in the Agreement to the contrary, LACI shall be entitled to terminate the Agreement and otherwise pursue legal remedies that may be available, including those set forth in the LWO, if the City of Los Angeles determines that Contractor violated the provisions of the LWO. The procedures and time periods provided in the LWO are in lieu of the procedures and time periods provided elsewhere in the Agreement. Nothing in the Agreement shall be construed to extend the time periods or limit the remedies provided in the LWO.

2.3. Service Agreement Worker Retention Ordinance. The Agreement may be subject to the Service Agreement Worker Retention Ordinance ("**SCWRO**") (Section 10.36, et seq., of the Code), which is incorporated herein by this reference. If applicable, Contractor must also comply with the SCWRO which requires that, unless specific exemptions apply, all employers under contracts that are primarily for the furnishing of services to or for the City of Los Angeles and that involve an expenditure or receipt in excess of Twenty-Five Thousand Dollars ($25,000) and a contract term of at least 3 months, shall provide retention by a successor Contractor for a 90-day transition period of the employees who have been employed for the preceding 12 months or more by the terminated Contractor or its subcontractors, if any, as provided for in the SCWRO. Contractor agrees and acknowledges that the City of Los Angeles, as the intended third-party beneficiary of this provision may (i) enforce the SCWRO directly against the Contractor with respect to City of Los Angeles property, and (ii) invoke, directly against Contractor with respect to City of Los Angeles property, all the rights and remedies available to the City under Section 10.36.3 of the SCWRO, as same may be amended from time to time. Under the provisions of Section 10.36.3(c) of the Code, the City of Los Angeles has the authority, under appropriate circumstances, to terminate the Agreement and otherwise pursue legal remedies that may be available if the City of Los Angeles determines that the subject Contractor violated the provisions of the SCWRO notwithstanding anything in the Agreement to the contrary.

2.4. Contractor Compliance. Contractor agrees to include, in every subcontract or other agreement covering the City of Los Angeles' property a provision pursuant to which such Contractor or other counterparty (A) agrees to comply with the LWO and the SCWRO with respect to the City of Los Angeles' property, including the Project Site; (B) agrees not to retaliate against any employee lawfully asserting noncompliance on the part of the Contractor or other counterparty with the provisions of either the LWO or the SCWRO; and (C) agrees and acknowledges that the City of Los Angeles, as the intended third-party beneficiary of this provision may (i) enforce the LWO and the SCWRO directly against the Contractor or other counterparty with respect to City property, including the Project Site, and (ii) invoke, directly against the Contractor or other counterparty with respect to City property, including the Project Site, all the rights and remedies available to City under Section 10.37.5 of the LWO and Section 10.36.3 of the SCWRO, as same may be amended from time to time.

3. Equal Benefits Ordinance

Unless otherwise exempt in accordance with the provisions of the Equal Benefits Ordinance ("**EBO**"), Contractor certifies and represents that Contractor will comply with the applicable provisions of EBO Section 10.8.2.1 of the Code, as amended from time to time. Contractor shall not, in any of its operations within the City of Los Angeles or in other locations owned by City of Los Angeles, including the Project Site, discriminate in the provision of Non-ERISA Benefits between employees with domestic partners and employees with spouses, and/or between the

domestic partners and spouses of such employees, where the domestic partnership has been registered with a governmental entity pursuant to state or local law authorizing such registration. As used above, the term "**Non-ERISA Benefits**" shall mean any and all benefits payable through benefit arrangements generally available to Contractor's employees which are neither employee welfare benefit plans nor employee pension benefit plans, as those terms are defined in Sections 3(1) and 3(2) of the Employee Retirement Income Security Act of 1974. Non-ERISA Benefits shall include, but not limited to, all benefits offered currently or in the future, by Contractor to its employees, the spouses of its employees or the domestic partners of its employees, that are not defined as employee welfare benefit plans or employee pension benefit plans, and, which include any bereavement leave, family and medical leave, and travel discounts provided by Contractor to its employees, their spouses and the domestic partners of employees.

Contractor agrees to post the following statement in conspicuous places at its place of business available to employees and applicants for employment, including field offices as may be required:

"*During the term of a contract with the City of Los Angeles, the Contractor will provide equal benefits to employees with spouses and its employees with domestic partners. Additional information about the City of Los Angeles' Equal Benefits Ordinance may be obtained from the Department of Public Works, Bureau of Agreement Administration, Office of Agreement Compliance at (213) 847-6480."*

The failure of Contractor to comply with the EBO will be deemed to be a material breach of the Agreement. If Contractor fails to comply with the EBO, notwithstanding anything in the Agreement to the contrary, LACI may cancel or terminate the Agreement upon notice to Contractor, in whole or in part, and all monies due or to become due under the Agreement may be retained by LACI. LACI may also pursue any and all other remedies at law or in equity for any breach. Failure to comply with the EBO may be used as evidence against Contractor in actions taken pursuant to the provisions of Code Section 10.40, et seq., Subcontractor Responsibility Ordinance. If the City determines that Contractor has set up or used its contracting entity for the purpose of evading the intent of the EBO, LACI may terminate the Agreement upon notice to Contractor, notwithstanding anything in the Agreement to the contrary.

4. Child Support Orders

The Agreement is subject to Section 10.10, Article I, Chapter 1, Division 10 of the Code related to Child Support Assignment Orders, which is incorporated herein by this reference. Pursuant to this section, Contractor (and any subcontractor of Contractor providing services to City under the Agreement) shall (1) fully comply with all State and Federal employment reporting requirements for Contractor's or Contractor's subcontractors employees applicable to Child Support Assignment Orders; (2) certify that the principal owner(s) of Contractor and applicable subcontractors are in compliance with any Wage and Earnings Assignment Orders and Notices of Assignment applicable to them personally; (3) fully comply with all lawfully served Wage and Earnings Assignment Orders and Notices of Assignment in accordance with California Family

Code Section 5230, et seq.; and (4) maintain such compliance throughout the term of the Agreement. Pursuant to Section 10.10(b) of the Code, failure of Contractor or an applicable subcontractor to comply with all applicable reporting requirements or to implement lawfully served Wage and Earnings Assignment Orders and Notices of Assignment or the failure of any principal owner(s) of Contractor or applicable subcontractors to comply with any Wage and Earnings Assignment Orders and Notices of Assignment applicable to them personally shall constitute a default of the Agreement subjecting the Agreement to termination where such failure shall continue for more than 90 days after notice of such failure to Contractor by City (in lieu of any time for cure provided elsewhere in the Agreement), notwithstanding anything in the Agreement to the contrary.

5. Business Tax Registration

If the primary activities of the business occur in Los Angeles, Contractor represents that it has registered its business with the Office of Finance of the City of Los Angeles and has obtained and presently holds from that office a Business Tax Registration Certificate, or a Business Tax Exemption Number, required by City of Los Angeles' Business Tax Ordinance (Article 1, Chapter 2, Sections 21.00 and following, of City of Los Angeles Municipal Code). Contractor shall maintain, or obtain as necessary, all such certificates required of it under said ordinance and shall not allow any such certificates to be revoked or suspended during the term hereof.

6. Intellectual Property and Ownership of Work Product

Contractor agrees that any and all intellectual property including, but not limited to, all ideas, concepts, themes, computer programs or parts thereof, documentation or other literature, or illustrations, or any components thereof, conceived, developed, written or contributed by Contractor and paid for by LACI, either individually or in collaboration with others, shall belong to and be the sole property of LACI. Contractor represents to the best of Contractor's knowledge, that the deliverables provided to LACI will not infringe any intellectual property rights of any third party.

7. Environmentally Favorable Options

Contractor acknowledges for itself and its Contractors that its operation of its activities under the Agreement will be subject to all of City of Los Angeles' policies, guidelines and requirements regarding environmentally favorable construction, use or operations practices (hereinafter collectively referred to as "**City Policies**") as such City Policies may be promulgated, revised and amended from time-to-time.

8. Noncompliance with this Exhibit

Contractor's non-compliance with any provision of this Exhibit shall constitute a material breach of the Agreement for which LACI may, in its sole discretion, seek specific performance or exercise other remedies under the Agreement. Contractor shall indemnify, defend and hold harmless LACI and the City of Los Angeles from any Claims arising from Contractor's non-compliance with any of the provisions of this Exhibit and in case of termination or cancellation of the Agreement as a result of Contractor's failure to comply with the requirements of this Exhibit, Contractor shall indemnify LACI and the City during the remainder of term against any Claim by reason of such termination.

EXHIBIT F
RFP SELECTION EVALUATION FORM

PROJECT: TRUCK DRAYAGE CHARGING DEPOT OPERATOR

SCORING GUIDELINES:

Rater's Score: (Range 0-5) - 0=not included/non responsive; 1= Serious Deficiencies; 2=Marginal Abilities; 3=Adequate, 4=Well Qualified; 5=Exceptionally Qualified.

Scores must be whole numbers only (for example, "3.5" is not acceptable).

Weighing Factor: A range of 1 through 6, with 1 being of relative lower importance and 6 being relative highest importance. Each number (1 through 6) may be used more than once; however, in establishing weights, the total of all the weighing factors (A –D) must equal 20.

Weighted Score= Rater's Score multiplied by (x) Weighing Factor. Totals should be calculated for each criterion.

Total score = Sum of all weighted scores.

Firm Name	**Evaluated by**	**Date**

CRITERIA TO BE RATED		**RATER'S SCORE**	**WEIGHING FACTOR**	**WEIGHTED SCORE**
A. Qualifications, Experience and References	How long has the company been in business? Has the company done similar work? Level of experience and expertise in subject matter area?		**5**	
B. Business and Operations Plan	Ability to successfully implement the proposed project? Quality of proposed work plan to meet project requirements? Quality of project management and timeline?		**6**	
C. Financial Capability	Financial wherewithal to implement the project and fulfil the obligations under the Agreement?		**5**	
D. Financial Proposal	Meets or exceeds minimum rent offer? Proposers that propose the minimum rent will be scored with a 3. Proposers should be given one additional point for each $100,000 increment above the minimum rent, not to exceed 5 maximum points		**4**	
	Maximum points possible=100		**A+B+C+D =20**	**Total Points=**

ATTACHMENT 1

PERMIT NO. _____

GRANTED BY THE CITY OF LOS ANGELES

TO

_____

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THIS PERMIT ("Agreement") is made and entered into this ____ day of _____, 20____, by and between THE CITY OF LOS ANGELES, a municipal corporation ("City") acting by and through its Board of Harbor Commissioners ("Board"), and _____, a _____ [type of business entity], _____ ("Tenant") (individually referred to as "Party" and collectively referred to as "Parties").

ARTICLE 1

Section 1. Agreement.

For good and valuable consideration, the receipt and sufficiency of which is acknowledged by the Parties, City hereby delivers, and Tenant hereby accepts, the non- exclusive use or the Premises hereinafter described, subject to the terms and conditions of this Agreement.

Section 2. Premises.

2.1 Real Property and Improvements; Definition of "Premises." The premises subject to this Agreement are those lands and improvements identified on Exhibits "A" and "B" attached hereto and incorporated herein as if set forth in full ("Premises"). Exhibit "A" states and describes the real property subject to this Agreement, and its square footage, and includes Drawing No. _____ (which drawing is on file in the office of the Chief Harbor Engineer of the Harbor Department ("Harbor Engineer"). Exhibit "B" identifies and describes all improvements on the Premises, and their ownership. Should Exhibit "A" and/or Exhibit "B" be modified in accordance with Applicable Law after the Effective Date, such exhibits shall be renumbered such that, for example, after any such modification and renumbering, Exhibit "B" becomes "Exhibit "B-1." Upon Executive Director's transmittal to Tenant, such modified and renumbered exhibit shall be deemed to be incorporated into this Agreement without further action of the Board or Council, and supersede any earlier issued iterations of that exhibit.

2.2 Acceptance and Surrender. Tenant has inspected the Premises and agrees that they are suitable in all respects for use and occupancy, and for undertaking the Permitted Uses. No officer, agent or representative of City has made any representation or warranty concerning the Premises, and Tenant does not rely on any such representation or warranty for any purpose. Tenant shall surrender the Premises upon the expiration or earlier termination of this Agreement in conformance with the terms and conditions of this Agreement. Tenant acknowledges and agrees that it is taking possession of the Premises in its "AS IS" condition subject only to Section 104. Tenant acknowledges and agrees that it is entering into this Agreement based solely upon its own due diligence and inspections of the Premises.

Section 3. Effective Date; Term and Holdover.

3.1 Effective Date. This Agreement is effective on the last to occur of the date of its approval pursuant to the City's Charter, and execution by the Executive Director of the Harbor Department ("Executive Director") which execution shall occur following approval as to form and legality of this Agreement by the Office of the Los Angeles City Attorney ("Effective Date").

3.2 Term. The Term of this Agreement shall be for an initial period of ten (10) years and shall commence on the Effective Date and expire on the tenth anniversary of the Effective Date ("Expiration Date"), unless sooner terminated in accordance with this Agreement, subject to the following:

(a) Provided Tenant is not in default of any term of this Agreement at the time of exercising the option to renew, Tenant has the option to renew the Term of this Agreement for two (2) consecutive renewal periods of five (5) years each, for a total Agreement term not to exceed twenty (20) years from the Effective Date. Exercise of the option to renew shall be by written notice from the Tenant to Executive Director no later than one-year prior to the end of the current term of the Agreement.

(b) Tenant shall pay a fee equal to ten percent (10%) of the estimated annual base rent of the first year of each exercised renewal period ("Option Fee"), but in no instance shall the Option Fee be less than Fifty-Thousand Dollars ($50,000) per each exercised option period. Such Option Fee shall apply to each renewal period and shall be paid within thirty (30) days of written notice of each exercised renewal period.

3.3 Holdover. Should Tenant remain in possession of all or any part of the Premises after the Expiration Date, with or without the express or implied consent of City, such occupancy shall be a "holdover" from month to month only, and not a renewal or an extension of this Agreement. In such holdover, which may be commenced upon written notice from Executive Director to Tenant, rent or other monetary sums shall be payable in the amount of one hundred fifty percent (150%) of the Rent payable for the last month prior to the holdover or one hundred fifty percent (150%) of the fair market rental at the time of the commencement of the holdover, whichever is greater, plus other charges payable hereunder. Such holdover shall be subject to every other provision, term and condition contained herein. Notwithstanding the foregoing, acceptance by City of Rent after such expiration or earlier termination, if any, shall not: (i) constitute a holdover, (ii) result in a renewal or extension of this Agreement, (iii) waive, alter or affect any provision of this Agreement, or (iv) waive, alter or affect any right of, or remedy available to, City, which rights and remedies expressly are reserved. Tenant shall be responsible for all damages incurred by City due to Tenant's holdover.

Section 4. Rent and Other Tenant Payments.

4.1 Definitions.

4.1.1 Compensation Year. Compensation Year. "Compensation Year" means "calendar year." The first Compensation Year commences on January 1 of the calendar year in which the Effective Date occurs; provided that, unless the Effective Date falls on January 1, the Rent payable for the first partial Compensation Year shall be prorated on the basis of a three hundred and sixty-five (365) day year.

4.1.2 Tariff Charges. "Tariff Charges" means all charges due and owing by Tenant under the Tariff on account of Tenant's use and occupancy of the Premises.

4.1.3 CPI-U. "CPI-U" means the Consumer Price Index for All Items, All Urban Consumers for the Los Angeles-Long Beach-Anaheim, California area, 1982-84=100, as published by the U.S. Department of Labor, Bureau of Labor Statistics, or a successor index selected by the Executive Director in the Executive Director's reasonable discretion.

4.1.4 Base Rent. "Base Rent" means the monetary sum, in U.S. Dollars, Tenant shall pay to City for its use and occupancy of the Premises per Compensation Year, excluding Tariff Charges and other Additional Rent.

4.1.5 Additional Rent. "Additional Rent" means all monetary sums, in U.S. Dollars, Tenant shall pay to City for applicable Tariff Charges, impositions, taxes, liens, and fees imposed on the Premises, or Tenant's use and/or occupancy of the Premises, including but not limited to late fees, and any additional monetary payments which Tenant is required to pay to City as more fully set forth in this Agreement.

4.2 Base Rent. As consideration for rights granted in this Agreement, Tenant shall pay to City in the manner set forth herein without abatement, deduction or offset, except as provided herein, the Base Rent of $[PROPOSAL ITEM} when due, whether or not an invoice for same has been received, paid monthly in the amount of XX per month due on or before the first day of each month.

4.3 Rental Adjustments. Base Rent shall be adjusted by Annual CPI Base Rent Adjustments and Optional Market Base Rent Adjustments, and may be adjusted by the Optional Construction Period Rent Reduction as follows**:**

4.3.1 Annual Base Rent Adjustments. On January 1 of the second (2nd) Compensation Year following the Effective Date (which date and subsequent annual anniversaries shall be referred to individually as "Annual Adjustment Date"), and annually thereafter, Base Rent shall be adjusted as of each Annual Adjustment Date automatically and without further notice in an amount that is the greater of: (a) three percent (3%), or the percentage increase (*but in no event decrease*), if any, in the CPI-U ("Annual CPI Base Rent Adjustments"). In the latter case, such adjusted Base Rent shall be equal to the product obtained by multiplying the Base Rent amount in effect on the Annual Adjustment Date by a fraction, the numerator of which is the CPI-U index for the month of March immediately preceding the Annual Adjustment Date, (the "Adjustment Index") and the denominator of which for the first adjustment is the CPI-U index for the month of March in the calendar year in which the Effective Date occurs, and for all subsequent adjustments during the Term is the July CPI-U index for the month of March of the prior year (the "Base Index"). For accounting purposes, the Annual Adjustment shall be rounded to the nearest hundredth.

The formula illustrating the adjustment computation is as follows:

Annual Adjusted Base Rent = Base Rent as of Annual Adjustment Date x $\frac{\text{Adjustment}}{\text{November CPI-U Index of Annual Adjustment Date}}$ x Base Index

4.3.2 Optional Market Base Rent Adjustments. In addition to, and not as a substitute for the Annual CPI Base Rent Adjustments required in Subsection 4.3.1, above, not less than sixty (60) days prior to every fifth (5th) Adjustment Date ("Reset Notice Date"), Executive Director may (but is not required to) commence the following process. Executive Director shall provide notice that City and Tenant shall each respectively, within sixty (60) days, exchange the names and qualifications of two (2) appraisers, which appraisers shall possess the qualifications set forth in the attached Exhibit "C" (attached hereto and incorporated herein as if set forth in full), from which list Executive Director and Tenant shall utilize best efforts to agree, within fifteen (15) calendar days, upon a single qualified appraiser from that list whom the City shall instruct to conduct the appraisal to determine market rental value of the Premises, as improved ("Market Rent"), in substantially the manner established by the Executive Director and applicable to the Premises and comparable properties and in compliance with the latest edition of the Uniform Standards of Professional Appraisal Practice ("Appraisal Instructions"). Exhibit "C-1" contains additional supplemental instructions, if any. The selected appraiser shall be instructed to determine Market Rent within ninety (90) calendar days of the selection. Executive Director and Tenant shall cooperate with the selected appraiser to provide information or documents in their respective custody or control which are reasonably necessary to generate an appraisal in conformity with the Appraisal Instructions City shall retain the selected appraiser; however, the costs incurred for the appraisal shall be borne equally by City and Tenant. Tenant agrees to reimburse City for half of the fees and half of the costs for the appraisal within fifteen (15) calendar days of receipt of an invoice for payment of same. If, despite best efforts, Executive Director and Tenant cannot agree upon such single appraiser within the aforementioned fifteen (15) calendar days, or if the selected appraiser fails to transmit the required appraisal report within ninety (90) calendar days following the appraiser's retention, Executive Director, on behalf of City, and Tenant shall each retain an appraiser possessing the qualifications set forth in the attached Exhibit "C" to determine the Market Rent pursuant to the Appraisal Instructions within no more than sixty (60) days, unless extended by mutual written agreement of the Parties. If both Parties are required to retain an appraiser, fees and costs of each appraiser shall be borne by the Party retaining that appraiser. The Board, in its sole discretion, may require the two appraisers to appoint a third appraiser possessing the Appraiser Qualifications to determine Market Rent in accordance with the Appraisal Instructions. If the two appraisers fail to appoint a third appraiser within the timeframe required by the Board, the Tenant and City may retain a neutral arbitrator to appoint a third appraiser possessing the Appraiser Qualifications to determine Market Rent in accordance with the Appraisal Instructions.

Each party shall pay the costs and expenses of the appraiser appointed by it or on its behalf, together with fifty percent (50%) of the costs and expenses of the third appraiser, and of the arbitrator, if any.

Appraisals generated pursuant to Subsections 4.3.2, shall be submitted to the Board along with the Executive Director's recommendation for the Board's determination of the appropriate Adjusted Base Rent for the Five-Year Adjusted Period, which determination shall be made at a public meeting. Board shall review all the relevant facts and evidence, including the appraisals, submitted to it and shall then establish by order the Adjusted Base Rent to apply throughout the Five-Year Adjusted Period. Such determination by Board shall be binding on the Parties, and, in that regard, Tenant knowingly and voluntarily waives any right to contest such determination.

4.3.3 Construction Period Rent Reduction. The Executive Director may reduce Base Rent by not more than thirty (30) percent, for a period not to exceed the earlier of the first twenty-four (24) months of the initial term of this Agreement or when Los Angeles Department of Water and Power (LADWP) energizes the electrical meter to the premises ("Construction Period"). In order to obtain this Construction Period Rent Reduction, Tenant shall provide evidence in a form acceptable to the Executive Director, within fifteen (15) days of request, that Tenant is diligently proceeding with construction of the Project in accordance with approved plans and Applicable Law.

4.4 Reconciling Rent for Final Measurements. Rent shall be adjusted to reflect any changes in City's final measurement of the Premises, or any improvements thereon, which are made pursuant to Subsection 102.3 (Modifications of Premises and Documents), without further action of Board or the Council; provided however, that in no event shall the Rent be adjusted below the Rent provided in Section 4.2, above. Executive Director shall provide written notice to Tenant of the revised Rent, the transmittal of which shall make the revised Rent effective, without further action of Board or Council.

4.5 Additional Rent.

4.5.1 Payment; Definition of Rent. In addition to Base Rent and any other consideration under this Agreement, Tenant shall pay to City all Additional Rent, as listed below, when due. Base Rent and Additional Rent shall collectively be referred to herein as "Rent." All Rent shall be paid to City at the address set forth in Subsection 103.2.2 (Payments), or at such other place as City may from time to time designate.

4.5.2 Tariff. Tenant shall pay City for any applicable Tariff Charges as Additional Rent.

4.5.3 Taxes and Impositions. Tenant shall timely pay all Taxes imposed with respect to this Agreement, the use or the operation of the Premises, including, without limitation, any documentary or other transfer or sales taxes, property or possessory interest taxes, and any City of Los Angeles Business Tax applicable to the use and

operation of the Premises. Without waiving any rights or remedies against Tenant, City reserves the right, without being obligated to do so, to pay the amount of any such Taxes not timely paid by Tenant, and the amount so paid by City shall be deemed Additional Rent hereunder, due and payable by Tenant immediately upon demand by City. Tenant shall pay as Additional Rent such assessments, fees, and charges as shall be set by the Board. Notwithstanding this Subsection 4.5.3, Tenant does not waive its right to seek relief from a court of competent jurisdiction to the extent that such Tax, assessment, fee, or charges are contrary to Applicable Law.

4.5.4 Utilities and Services. As between City and Tenant, Tenant shall be solely liable for and shall pay all charges for services furnished to the Premises, including, without limitation, heat, power, telephone, water, light, janitorial services, security services, and trash collection services, and any other services in connection with its occupancy of the Premises, including, without limitation, deposits, connection fees or charges, and meter rentals required by the supplier of any such service. If any such services are not separately metered or billed to Tenant, Tenant shall pay a reasonable proportion, to be determined by Executive Director in his or her reasonable discretion, of all charges jointly metered or billed. There shall be no abatement of Rent, and City shall not be liable in any respect whatsoever, for the inadequacy, stoppage, interruption, or discontinuance of any utility or service due to riot, strike, labor dispute, breakdown, accident, repair, or other cause beyond City's reasonable control, or in cooperation with governmental request or directions. To the extent such utilities and services are provided by City, such sums shall be Additional Rent payable by Tenant to City.

4.5.5 Rent for Non-permitted Uses. Use of the Premises for purposes not expressly permitted herein, whether approved in writing by the Executive Director or not, may result in additional charges, including charges required by the Tariff, as it may be amended or superseded. Imposing additional charges, and receiving Additional Rent for non-permitted uses, shall not waive City's rights to declare a default, or limit City's remedies under this Agreement and at law.

4.5.6 Rent on New Improvements. Tenant shall not be charged Rent for the rental value of any additions, improvements, or alterations to the structures on the Premises authorized by City and made by Tenant, at Tenant's sole expense unless and until title to said additions, improvements, or alterations revert to City pursuant to the terms of this Agreement or by operation of law.

4.5.7 Other Amounts. Tenant shall pay as Additional Rent any amounts due and owing from Tenant that arise from or are related to its undertaking of the Permitted Uses or its occupancy of the Premises, including without limitation, service charges for services provided by the Harbor Department.

4.5.8 City's Net Return. The Parties intend that Rent provide City with a "net" return for the Term, free of any expenses or charges with respect to the Premises, except

as specifically provided in this Agreement. Accordingly, Tenant shall pay as Additional Rent and discharge, before delinquency (but subject to the terms of this Agreement, including any applicable cure periods), each and every item of expense, of every kind and nature whatsoever, including impositions or other amounts customarily paid by a tenant or otherwise payable by Tenant in accordance with the terms of this Agreement.

Section 5. Uses.

5.1 Permitted Uses. The Premises shall be used for the following purposes and no others: Design, build, finance, operate, and maintain a publicly accessible battery electric heavy-duty drayage truck electric vehicle charging station(s) and any uses incidental thereto ("Permitted Uses").

5.2 Limitations on Use. Tenant shall not use or allow the Premises, or any part thereof, to be used for purposes other than the Permitted Uses without the prior written approval of the Executive Director (which approval may be withheld by the Executive Director in their sole and absolute discretion), and subject to such restrictions, limitations and conditions as may be imposed by the Board. Such restrictions, limitations and conditions include, without limitation, those matters comprising Exhibit "D" attached hereto and incorporated herein as if set forth in full.

5.3 Operating Covenant. Tenant shall manage and operate the Premises, or cause them to be managed and operated, as in a manner consistent with the manner and standard by which comparable facilities are managed and operated and shall perform maintenance and capital improvements necessary to maintain the Premises in a manner comparable to that in which comparable facilities are maintained all in compliance with all terms and conditions of this Agreement.

5.3.1 Business and Operations Plan. Tenant shall additionally operate and manage the premises strictly in accordance with the Business and Operations Plan attached to this Agreement as Exhibit "__" and incorporated herein by this reference (the "Business and Operations Plan") or as may be hereafter revised with the approval of the Executive Director. [Note: The content of the Business and Operations Plan is to be prepared following selection of the successful proposer based on RFP responses.] Tenant may submit proposed revisions to the Business and Operations Plan to the Executive Director, on an annual basis, no later than ninety (90) days prior to the end of each Year continuing through the end of the Term. If Tenant believes exigent circumstances warrant that the Business and Operations Plan should be revised sooner than the end of a given Year, then Tenant may submit proposed revisions during such Year for the Executive Director's consideration. All proposed revisions to the Business and Operations Plan shall be subject to the approval of the Executive Director and shall not become effective unless and until approved by the Executive Director. The Executive Director shall have the right to require reasonable changes to the Business and Operations Plan, from time to time and at any time, upon not less than thirty (30) days prior written notice (or such earlier period as

may be specified herein). In the event of a conflict between the terms of this Agreement and the Business and Operations Plan (including any revisions to the Business and Operations Plan), the terms of this Agreement shall control.

Section 6. Notices.

All notices or other communication necessary in cases where written notice, including the service of legal pleadings, shall be given in writing by personal service, or express mail, Federal Express, DHL, UPS or any other similar form of airborne/overnight delivery, service, or mailing (if said notice is deposited in the United States mail, postage prepaid, certified and return receipt requested in a sealed envelope), addressed to the Parties at their as set forth below, with postage thereon fully prepaid. When so given, such notice shall be effective as provided below. Any notice provided by the Tenant to the City can also be sent by e-mail and an overnight delivery service. Unless changed by notice in writing from the respective parties, notice to the parties shall be as follows:

To City (or its Los Angeles Harbor Department):

Port of Los Angeles
P.O. Box 151
San Pedro, California 90733-0151
Attention: Executive Director

With copies to: Office of City Attorney—Harbor Department
425 S Palos Verdes Street
San Pedro, California 90731
Attention: General Counsel
e-mail address:

and to:

Real Estate Division
P.O. Box 151
San Pedro, CA 90733-0151
Attention: Director of Real Estate
e-mail address:

To Tenant: _____
_____
_____
Attention: _____

Any such notice shall be deemed to have been given upon delivery or two business days after deposit in the mail as aforesaid. Either Party may change the address at which it desires to receive notice upon giving written notice of such request to the other Party.

Nothing herein contained shall preclude or render inoperative service of such notice in the manner provided by Applicable Law. All notice periods under this Agreement refer to calendar days unless otherwise specifically stated.

ARTICLE 1 – Sections 7 to 99, intentionally omitted.

ARTICLE 2 – STANDARD PROVISIONS

Section 100. Applicability of Article 2.

Notwithstanding anything in this Agreement to the contrary, in the case of any inconsistency between Article 1 and Article 2 of this Agreement, the provisions of Article 1 shall control.

Section 101. Definitions.

All capitalized terms used and not defined in Article 1 or Article 2 shall have the meaning ascribed to them in the Glossary of Defined Terms attached hereto and incorporated herein as Attachment 1, attached hereto and incorporated herein as if set forth in full.

Section 102. Limitations and Conditions Related to Premises.

102.1 Compliance with Applicable Laws; Executive Director Directives. At all times in its use and occupancy of the Premises and in its conduct of operations thereon, Tenant, at its sole cost and expense, shall comply with all Applicable Laws, and with any and all directives issued by Executive Director under authority of any such Applicable Law. Tenant shall make, at Tenant's sole cost and expense, any and all alterations, improvements, and changes to the Premises or its improvements, whether structural or nonstructural, that are required by Applicable Law, on the Effective Date or as may be enacted or amended during the Term. Such Applicable Laws include, without limitation, those matters comprising Exhibit "F", attached hereto and incorporated herein as if set forth in full. City shall have no liability to the Tenant or any third party if this transaction does not comply with any Applicable Laws or any third-party compliance or approval process. City is not liable or responsible to the Tenant or any third party for any damages to the Tenant or the third party if this Agreement is terminated due to a violation of Applicable Laws or any third party compliance or approval process.

102.2 Reservations. This Agreement and the Premises are and shall be at all times subject to the reservations and exclusions listed below, and additional reservations City may reasonably require after the Effective Date, or which any Applicable Laws may require after the Effective Date ("Reservations") of which Tenant shall receive advance written notice. Such Reservations shall not unreasonably interfere with the conduct of Tenant's business on the Premises as authorized in this Agreement. The determination of unreasonable interference shall be made solely by the Executor Director in their discretion. In the event or any Reservation, Tenant shall receive no compensation or abatement of rent unless otherwise provided in this Agreement.

102.2.1 Utilities, and other Rights-of-Way. Rights-of-way for sewers, storm drains, pipelines (public or private), conduits for telecommunications, cable, fiber optic, electric, gas, and power lines, as may from time to time be determined to be necessary by the Board, including the right to enter upon, above, below or through the surface to

construct, service, inspect, maintain, replace, repair, enlarge or otherwise utilize the Premises for such purpose.

102.2.2 Streets and Highways. Rights-of-way for streets and other highways and for railroads and other means of transportation which are apparent from a visual inspection of the Premises or which shall have been duly established or which are reserved herein.

102.2.3 Telecommunication and Utility Equipment. Access, temporary occupancy, and the right of City or third-parties selected by City in its sole and absolute discretion to install, operate, maintain, and repair telecommunication and utility equipment.

102.2.4 Homeland Security. Access, temporary occupancy and other rights reasonably necessary to comply with homeland security or related requirements of Applicable Law or directives of the Harbor Department. City reserves the right to install, maintain and operate on the Premises equipment related to homeland security and/or public safety with seventy-two (72) hours prior written notice to Tenant.

102.2.5 Environmental Initiatives. Access, temporary occupancy and other rights reasonably necessary to comply with environmental initiatives and/or policies of City, local, state and federal agencies or the Harbor Department.

102.2.6 Prior Exceptions. All prior exceptions, reservations, grants, easements, leases or licenses of any kind whatsoever that appear of record in the office of the Recorder of Los Angeles County, California, or in the official records of City or any of its various departments.

102.2.7 Mineral Rights Excluded. Rights-of-way over, on, under, and through the Premises, as Board or City requires, to drill and explore new, or to maintain existing, oil, gas, or mineral wells. All minerals and mineral rights of every kind and character now known to exist or hereafter discovered, including, without limiting the generality of the foregoing, oil, gas and water rights, together with the full, exclusive and perpetual rights to explore for, remove and dispose of said minerals, or any part thereof, are excluded from the Premises, without, however, the right of surface entry on the Premises.

102.2.8 City's Right of Access and Inspection. City, by and through its officers, employees, agents, representatives, and contractors, shall have the right at all reasonable times and in a reasonable manner, upon notice to Lessee, to enter upon the Premises for the purpose of inspecting the same or for doing any act or thing which City may be obligated or have the right to do under this Agreement, or otherwise, and no abatement of Rent shall be claimed by or allowed to Tenant by reason of the exercise of such rights. In the exercise of its rights under this Section, City, its officers, employees, agents, and

contractors shall not unreasonably interfere with the conduct of Tenant's business on the Premises as herein authorized.

102.3 Modification of Premises and Documents.

102.3.1 Final Measurement. The Premises may be subject to final measurement by City. To the extent that the final measurements differ from Exhibit "A," the Harbor Engineer shall: (i) revise Exhibit "A" to reflect the correct measurements of the Premises and any improvements thereon; (ii) renumber the revised Exhibit "A" as Exhibit "A-1"; and (iii) transmit Exhibit "A-1" to Tenant. Upon City's transmittal to Tenant, such revised and renumbered Exhibit "A-1" shall be deemed to: (i) be incorporated into this Agreement without further action of the Board or the Council; and (ii) supersede Exhibit "A."

102.3.2 Modifications. Subject to compliance with Applicable Laws, addition or deletion of Premises on which Tenant pays Rent, not to exceed a cumulative total of ten percent (10%) of the originally designated Premises, may be made by mutual written agreement of the Parties as detailed herein, so long as such change in area is not a temporary use of substitute premises as set forth in Tariff Item 1035 (or its successor), or not temporary as determined by City in its sole and absolute discretion. Such addition or deletion shall be by written amendment and shall specify appropriate adjustments in Rent. Unless the modification involves an amount in excess of the Executive Director's contracting authority, as that amount may be amended from time to time, the amendment shall not require approval by the Board or the Council. If, on the other hand, the modification involves an amount within the Executive Director's authority, he or she shall make such modification in his or her sole and absolute discretion and shall transmit the amendment memorializing the modification to Tenant. Any such amendment shall revise and replace the following: (i) Section 2 (Premises) (ii) Section 4 (Rent and Other Tenant Payments), and (iii) Exhibits "A," and/or "B," as necessary to conform to these modifications.

102.4 Temporary Assignments. By issuing this Agreement, City does not grant to Tenant the sole or exclusive right to use the Premises. Whenever the Premises, excepting an office building occupied by Tenant, if any, are not being used, in whole or in part, by Tenant for the Permitted Uses, or if City requires the Premises on a project or emergency basis, the Executive Director shall have the right, subject to Tenant's consent (which consent shall not be unreasonably withheld), to make temporary assignments to other persons, firms and/or business entities to use the Premises, or any part thereof, as provided in the Tariff. Any direct charges accruing against Tenant from the use of the Premises by a temporary user, and the allocated costs of utilities that Tenant furnishes to such temporary user, shall be paid by such temporary user. City and Tenant agree to negotiate in good faith regarding any other terms and conditions of such temporary assignments.

102.5 Waste or Nuisance. Tenant shall not use the Premises in any manner that constitutes waste or nuisance.

102.6 Maintenance Areas. Tenant shall not conduct or permit any maintenance of mobile or portable equipment on the Premises except in full compliance with all Applicable Laws attendant to the Premises and its use, including without limitation, all Environmental Laws and Mitigation Measures as hereinafter defined. Tenant shall not conduct maintenance activities on unpaved portions of the Premises, if any.

102.7 Responsibility for Financing. The procurement and/or maintenance of any financing required in connection with the use of the Premises, including, without limitation, development and operation, shall be the sole responsibility, cost and expense of Tenant.

102.8 Tenant to Supply Necessary Labor and Equipment. Tenant shall, at its sole cost and expense, provide all equipment and labor necessary to undertake the Permitted Uses; provided, however, that nothing contained herein shall prevent Tenant from using such equipment as may be installed by City at the Premises upon the payment to City of all applicable charges.

102.9 Liens; Indemnity. Except where contested by Tenant in good faith in a court of competent jurisdiction, and except for non-delinquent liens arising from taxes or tax assessments, Tenant shall keep the Premises free from liens of any kind or nature arising out of its use and/or occupancy of the Premises, including any liens arising out of any labor performed for, or materials furnished to or on behalf of, Tenant on the Premises. Tenant shall at all times defend, hold harmless and indemnify City from and against all claims for labor or materials in connection with the construction, erection, or installation of improvements made by Tenant upon the Premises, or from additions or alterations made to any improvements on the Premises, or the repair of the same, by or at the direction of Tenant, and the costs of defending against any such claim, including attorneys' fees. If a mechanic's or other similar lien shall at any time be filed against City's interest in the Premises, which is not contested by Tenant in good faith in a court of competent jurisdiction, Tenant shall: (i) cause the same to be discharged of record within thirty (30) days after the date of filing the same; or, (ii) otherwise free the Premises from such claim, or lien and any action brought to foreclose such lien; or, (iii) promptly furnish City with a bond in the amount of one hundred and twenty five percent (125%) of the lien, issued by a surety company, acceptable to the Executive Director, securing City against payment of such lien and against any and all loss or damage whatsoever in any way arising from the failure of Tenant to discharge such lien.

102.10 Tenant Electronic Equipment. Tenant shall coordinate with the Harbor Department and any other applicable Governmental Agencies prior to installing any electronic, radio or telecommunications equipment to ensure that their operations do not interfere with public safety communications or radio frequencies of other tenants or City.

102.11 Property of Tenant. All property brought onto the Premises by Tenant, or in the care, custody or control of Tenant, to undertake the Permitted Uses, or otherwise, shall be and remain the property of Tenant, subject to the terms and conditions contained herein, and shall

be there at the sole risk of Tenant. Tenant hereby waives all claims against City with respect to such property, except for injury or damage to such property caused by City's sole negligence or willful misconduct.

102.12 Quiet Enjoyment. City covenants that, so long as this Agreement has not expired or terminated in accordance with its terms and Applicable Laws attendant to the Premises and its use, and Tenant is not in default under any provision of this Agreement, Tenant shall and may peaceably and quietly have, hold, and enjoy the Premises for the Term, so long as the Premises are used in compliance with the State Tidelands Trust. By such covenant, City makes no representation or warranty as to the condition of title of the Premises or the suitability of the Premises for the Permitted Uses. Tenant's sole remedy for breach of this Subsection 102.12 shall be an action for specific performance.

102.13 Local Job Participation; Living Wage; Prevailing Wage. In furtherance of the policies of the Board and the Council, Tenant shall strive to achieve the goals of local job participation in the use and operation of the Premises and the Living Wage Ordinance of the City of Los Angeles as defined in the City of Los Angeles Administrative Code Section 10.37. In addition, Tenant shall pay, and require all of its construction contractors and subcontractors to pay prevailing wage as set forth in California Labor Code sections 1720 et seq., to all contractors and subcontractors performing construction, alteration, demolition, installation, or repair work at or on the Premises.

102.13.1 Generally. Tenant represents that it shall require its construction contractor(s) and subcontractors pay the general prevailing rate of per diem wages and rates for legal holiday and overtime work currently being paid in the area where the work is being performed and include appropriate provisions in its construction contract documents to ensure the requirements of this Section 102.13 are met.

102.13.2 Rates. Pursuant to the provisions of the Labor Code of the State of California, the general prevailing rate of wages for each craft, classification or type of workers shall be those rates as determined by the Director of the Department of Industrial Relations of the State of California. Copies of the applicable Determinations by the said Director are on file in the Construction Division and are hereby incorporated and made a part hereof the same as though fully set forth herein. Copies of the applicable Determinations may be obtained at or by request to the Department.

102.13.3 Violations. When a contractor has been determined to be in violation of Section 377 of the City Charter making applicable the provisions of the California Labor Code relating to the payment of not less than the prevailing per diem wages on public works, deductions may be made from moneys due or to become due the contractor in the amount of twice the difference between such stipulated prevailing rates,

and the amount paid to each wage worker for each Calendar Day or portion thereof for which each worker was paid less than the stipulated prevailing wage. The contractor shall also comply with Section 1775 of the Labor Code providing for a penalty per day as determined by the Labor Commissioner for each Calendar Day, or part thereof, for which each worker was paid less than the prevailing wage.

102.13.4 Records. Contractor and subcontractors shall keep an accurate record showing the names and occupations of all workers employed by them in connection with any work done under the contract, and the per diem wages paid to each of such workers and shall keep such record open at all reasonable hours to the inspection of the Board and to the State Division of Labor Law Enforcement. The contractor in all other respects shall comply with Section 1776 of the Labor Code.

102.13.5 State and Federal Reporting Requirements. Contractor and subcontractors shall comply with all applicable state and federal employment reporting requirements for the contractor's and/or subcontractor's employees.

102.13.6 Certification of Compliance with Orders. Contractor and/or subcontractor shall certify that the principal owner(s) are in compliance with any Wage and Earnings Assignment Orders and Notices of Assignment applicable to them personally. Contractor or subcontractor shall comply with all lawfully served Wage and Earnings Assignment Orders and Notices of Assignments in accordance with the California Family Code §§5230 et. seq. Contractor and subcontractor will maintain such compliance throughout the term of any contract.

102.13.7 Working Hours. Work shall be accomplished during the daylight hours. Night work will only be allowed if the work does not: (i) conflict with noise laws, ordinances, regulations, City code or, (ii) create unsafe working conditions or poor quality control provisions.

102.13.8 Apprentice Utilization on Public Works. Contractor shall comply with the Provisions of the Labor Code, State of California, Section 1777.5 relating to apprentice employment and training. Contractor shall assume full responsibility for compliance with said Section with respect to all apprenticeable occupations during construction.

Section 103. Additional Provisions Related to Rent.

103.1 Premises Subject to Tariff. Tenant accepts the Premises and shall undertake the Permitted Uses subject to each and every of the applicable rates, terms, and conditions of the Tariff in its form on the Effective Date, or as it may be temporarily amended, or permanently amended, or superseded during the Term. Except as otherwise set forth in this Agreement, Tenant is contractually bound by all Tariff rates, terms and conditions as if the same were set forth in full herein. Executive Director, in his or her sole and absolute discretion, shall determine if a conflict exists between a provision of this Agreement and a Tariff provision. In the event of such conflict, this Agreement shall at all times prevail.

103.2 Requirements Applicable to Tenant's Payment of Rent.

103.2.1 Tenant's Obligation to Pay; No Right of Set-Off. Notwithstanding any other provision of this Agreement, Tenant's obligations to pay Rent to City according to the terms and conditions of this Agreement shall be absolute and unconditional and shall be unaffected by any circumstance, including, without limitation, off-set, counterclaim, recoupment, defense, or other right which Tenant may have against City.

103.2.2 Payments. Whether invoiced by City or not, Tenant shall render its payments due and payable under this Agreement to the City of Los Angeles Harbor Department Administration Building, P.O. Box 514300, Los Angeles, CA 90051-4300, or any other place that City from time to time may designate in writing. All payments due to City under this Agreement shall be made in U.S. Dollars, either in the form of a check (drawn on a bank located in the State of California) or via electronically transmitted funds.

103.2.3 Proration of Payments. If any payment by Tenant is for a period shorter than one calendar month, the Rent for that fractional calendar month shall accrue on a daily basis for each day of that fractional month at a daily rate equal to 1/365 of the total annual Rent then due and payable. All other payments or adjustments that are required to be made under the terms of this Agreement, and that require proration on a time basis, shall be prorated on the same basis.

103.2.4 Annual Financial Statements. Tenant and any guarantors of this Agreement shall provide annual audited financial statements to City.

103.2.5 Force Majeure Not Applicable. Any Force Majeure provision or principle, including, without limitation, the provisions of Section 109 (Force Majeure), shall not apply to any of Tenant's Rent Payment Obligations.

103.2.6 Deposits.

103.2.6.1 Security Deposit. As a condition precedent to the effectiveness of this Agreement, on or before the Effective Date, Tenant shall, deposit with Executive Director a sum equal to three monthly installments of Base Rent ("Security Deposit"), which sum shall increase automatically with every

increase in Rent under this Agreement. Said Security Deposit shall be in cash or a standby irrevocable letter of credit, or equivalent, in a form approved by City and, if applicable, the City's City Attorney. Letters of credit shall be self-renewing from year-to-year and shall remain in full force and effect for a minimum period of ninety (90) days following the Expiration Date or any earlier termination of this Agreement. Notwithstanding the foregoing, the irrevocable letter of credit may be subject to termination upon sixty (60) days written notice, provided that, Tenant shall first give City notice in writing of its intent to terminate the letter of credit and provide a replacement irrevocable letter of credit to the City so that there is no lapse in coverage.

Said deposit may be used to cover delinquent Rent, and other obligations under this Agreement including, but not limited to, any obligation to repair, maintain, or restore the Premises. This deposit shall not, in any way, reduce Tenant's liabilities under this Agreement unless specifically stated in writing by City and approved by the Board. Should all or part of such deposit be applied against Rent due and unpaid, or other obligations due and unpaid, Tenant shall immediately make another deposit in an amount equal to the amount so used, so that at all times during the term of this Agreement said deposit shall be maintained in the sum stated above, or as increased pursuant to Subsection 103.2.6.2, below. City shall have the right to apply the security deposit against Rent due and unpaid, or other obligations due and unpaid. Tenant shall not use any part of the security deposit to pay any Rent due hereunder.

103.2.6.2 (Intentionally Omitted).

103.2.7 Charges on Past Due Obligations. Payments required to be made by this Section 103 which have not been paid within ten (10) calendar days of the date such payments are due shall be subject to a delinquency charge which shall accrue at the rate provided in Item No. 270 of the Tariff, currently consisting of simple interest of one thirtieth (1/30) of two percent (2%) of the amount remaining unpaid each day. Tenant acknowledges that it knows the day of the month its payments hereunder are due and that such payments are due to be made from that date and not the date of City's invoice, if any. The delinquency service charge shall be imposed whether or not a deposit required by Subsection 103.2.6, above, is applied to the amount due. City has the unqualified right, upon thirty (30) days' prior written notice to Tenant, to change the level of the delinquency service charge. The payment of interest on such amounts shall not excuse or cure any Default by Tenant under this Agreement.

Section 104. Tenant's Environmental Obligations During Term of Agreement.

104.1 Term Contamination; Baseline Condition; Remediation. During the Term, Tenant shall maintain the Premises free of Term Contamination, subject to Sections 102.2 (Reservations), and 102.4 (Temporary Assignments). On the Expiration Date or at the earlier termination of this

Agreement, as to Environmentally Regulated Material, Tenant shall surrender possession of such Premises to City in (a) the Baseline Condition or (b) the environmental condition that fully complies with the guidelines of, orders of, or directives of the Governmental Agency or Agencies that have assumed jurisdiction of the Premises, whichever of the two is stricter as determined by Executive Director in his or her reasonable discretion, and in conformance with Harbor Department's remediation procedures, and free of encumbrances, such as deed or land use restrictions, except those that may be imposed as a result of the presence of Environmentally Regulated Material despite Tenant's compliance with the foregoing requirement.

104.1.1 Baseline Report; Presumption of Term Contamination. The Baseline Report, Exhibit "G," attached hereto and incorporated herein as if set forth in full, which Tenant has reviewed and approved, depicts the Environmentally Regulated Material on, below and/or emanating from the Premises on the Effective Date ("Baseline Condition"). With reference to Section 104.1, as between City and Tenant, Tenant is responsible, at its sole cost and expense, for all Environmentally Regulated Material not depicted in the Baseline Report. It is presumed that any Environmentally Regulated Material not depicted in the Baseline Report constitutes Term Contamination for which, as between City and Tenant, Tenant is solely responsible. City shall provide written notice of the existence of any such Environmentally Regulated Material to Tenant, but the failure of City to provide such notice shall not relieve Tenant of their obligations. Tenant may rebut such presumption by providing to City, within ninety (90) days of City's written notice, conclusive evidence demonstrating that such Environmentally Regulated Material is not Term Contamination. Otherwise, such presumption shall be deemed confirmed making Tenant solely responsible for such Environmentally Regulated Material. Whether any information submitted by Tenant rebuts the aforementioned presumption shall be within Executive Director's reasonable discretion. This provision shall survive the expiration or earlier termination of this Agreement.

104.1.2 Prior Occupancy. If, prior to the Effective Date, the Premises, or portions thereof, were occupied by Tenant, or an Affiliate of Tenant, or by an assignor or transferor to Tenant, under an entitlement or agreements separate from this Agreement ("Tenant Prior Occupancy"), as between City and Tenant, Tenant is solely responsible for any and all Environmentally Regulated Material released on the Premises during such Tenant Prior Occupancy, whether or not such Environmentally Regulated Material is depicted in the Baseline Report. Such responsibility is in addition to Tenant's responsibility for Term Contamination.

104.1.3 Specific Tenant Obligations for Term Contamination. As between City and Tenant, Tenant shall, at its sole cost and expense, remediate all Term Contamination in accordance with Section 104.1. If Applicable Law requires Tenant to report Term Contamination to a Governmental Agency, Tenant shall so report and thereafter, if such Governmental Agency asserts jurisdiction over such Term Contamination, Tenant shall, at its sole cost and expense as between City and Tenant, manage the Term Contamination consistent with Applicable Laws and the directives of the Governmental Agencies with

jurisdiction, if any. If a schedule for such Term Contamination management is not prescribed by Applicable Laws, or the directives of the Governmental Agencies with jurisdiction if any, the Harbor Department shall reasonably prescribe such schedule in consultation with Tenant. Whether a Governmental Agency asserts jurisdiction over Term Contamination or not, Tenant shall characterize (including sampling and analysis) all Term Contamination in conformity with Applicable Laws and the reasonable directives of Executive Director. Tenant shall provide copies of remediation-relevant documents (including work plans, reports, remedial action plans, and progress reports) for Harbor Department review and approval prior to implementing field investigations, studies, or cleanups. Tenant shall provide copies to City of all communications between Tenant (and any third-parties acting for or on its behalf), and any Governmental Agency with jurisdiction regarding all Term Contamination. If Tenant fails to wholly or partially fulfill any obligation set forth in this Subsection 104.1.3, City may (but shall not be required to) take all steps it deems necessary to fulfill such obligation. Any action taken by City shall be at Tenant's sole cost and expense, and Tenant shall indemnify, defend and hold harmless the City, and Tenant shall pay for and/or reimburse City for any and all costs (including any administrative costs or legal costs) City incurs as a result of any such action it takes.

104.2 Presence and Use of Environmentally Regulated Material During the Term.

104.2.1 Tenant is Owner and Operator; Indemnity. Except for Environmentally Regulated Material comprising the Baseline Condition, and subject to Section 104.1, as between City and Tenant, Tenant is responsible at it sole cost and expense for full compliance with Applicable Laws regarding the use, storage, handling, distribution, processing, and/or disposal of Environmentally Regulated Material, regardless of whether the obligation for such compliance or responsibility is placed on the owner of land, on the owner of any improvements on land, on the user of land, or on the user of the improvements on land. For purposes of CERCLA (the Comprehensive Environmental Response, Compensation and Liability Act of 1980) and all other Applicable Laws, Tenant shall be considered the owner and operator. Except for Environmentally Regulated Material comprising the Baseline Condition, and subject to Section 104.1, Tenant agrees that any claims, damages, fines, or other penalties asserted against or levied on City and/or Tenant as a result of noncompliance with any Applicable Laws shall be the sole responsibility of Tenant and that Tenant shall indemnify, defend and hold City harmless from any and all such claims, damages, fines, penalties, and/or judgments, as well as any costs expended to defend against such claims, damages, fines, penalties, and penalties/or judgments, including attorneys' and experts' fees and costs that result from Environmentally Regulated Material outside of the Baseline Condition, or Tenant's non-compliance with any Applicable Law during the Term regarding the use, storage, handling, distribution, processing, and/or disposal of Environmentally Regulated Material. City shall provide Tenant with not less than thirty (30) days' notice to comply with any claims, damages, fines, and penalties, or if Tenant has not complied with such claims, damages, fines, and penalties, or if Tenant has not requested a meet and confer to discuss

compliance within such thirty (30) days, then City, at its sole option, may pay such claims, damages, fines, and penalties resulting from Tenant's noncompliance with any of the Applicable Laws, and Tenant shall indemnify and reimburse City for any such payments.

104.2.2 Use of Environmentally Regulated Material. Tenant shall not cause or permit any Environmentally Regulated Material to be generated, brought onto, handled, used, stored, transported from, received or disposed of (hereinafter sometimes collectively referred to as "handle" or "handled") in or about the Premises, except for: (i) limited quantities of standard office and janitorial supplies containing chemicals categorized as Environmentally Regulated Material; (ii) Environmentally Regulated Material set forth in Exhibit "H" attached hereto and incorporated herein as if set forth in full, which are necessary for Tenant to undertake the Permitted Uses; and (iii) Environmentally Regulated Material handled in conformity with all state and federal environmental regulations. Tenant shall handle all such Environmentally Regulated Material in strict compliance with Applicable Laws in effect during the term of this Agreement or any holdover. Tenant shall provide City with a report including an updated Exhibit "H" which reflects all additional Environmentally Regulated Material necessary for Tenant to undertake the Permitted Uses only if there are changes to Exhibit "H".

104.3 Mitigation and Other Environmental Obligations.

104.3.1 Compliance Obligation; Notice. Tenant shall comply (and shall immediately halt and remedy any incident of non-compliance) with:

104.3.1.1 Applicable Laws. Tenant shall immediately upon receipt provide City with copies of any notices or orders or similar notifications received from any Governmental Agency regarding compliance with Applicable Laws relative to obligations under Section 104;

104.3.1.2 Environmental Policies, Rules and Directives. All applicable environmental policies, rules and directives of the Harbor Department as set forth on in Exhibit "I" attached hereto and incorporated herein as if set forth in full; and

104.3.1.3 Mitigation Measures and MMRP. Following certification of the environmental document required by the California Environmental Quality Act ("CEQA") for the development at the Premises intended to implement any improvements or legally entitle hereunder an additional term of use and occupancy of the Premises, the environmental mitigation measures ("Mitigation Measures") and Mitigation Monitoring and Reporting Program (or "MMRP") and other Environmental Compliance Requirements, if any, set forth collectively in Exhibit "I" hereto. Tenant shall report any non-compliance with Exhibit "I" to Executive Director, including the facts of such non-compliance and Tenant's proposed cure of such non-compliance in accordance with Section 108 hereto. Following the Effective Date, upon mutual written agreement of Board and

Tenant, Board may revise Exhibit "I." Tenant shall be considered to be in compliance with the requirements imposed by Exhibit "I" if it complies with laws and regulations adopted by applicable Governmental Agencies that are equivalent to or more stringent than those of Exhibit "I." In such event of superseding regulations, tenants shall not be required to continue reporting on the superseded MMRP measures unless a violation occurs, in which event Tenant shall provide notification to the City as required pursuant to Section 104.4, in addition to any required agency notifications. Tenant shall perform annual written audits of its compliance with Exhibit "I". The results of such audits shall be maintained on Premises for review by City and transmitted to the City annually.

104.4 Waste Disposal. In discharging its obligations under this Section 104, if Tenant disposes of any soil, material or groundwater contaminated with Environmentally Regulated Material, Tenant shall maintain, and shall provide to Executive Director within thirty (30) days of its receipt of original documents, copies of all records, including a copy of each uniform hazardous waste manifest indicating the quantity and type of material being disposed of, the method of transportation of the material to the disposal site, and the location of the disposal site. Tenant shall supply copies of such records to the City promptly upon City's request. The name of the City of Los Angeles, the Port of Los Angeles, or the Harbor Department shall not appear on any manifest document as a generator of such material.

104.5 Laboratory Testing. In discharging its obligations under this Section 104, all analyses performed by or on behalf of Tenant shall be conducted at a State of California Department of Health Services certified testing laboratory certified for such analyses by the Los Angeles Regional Water Quality Control Board or other similar laboratory of which the Harbor Department shall approve in writing. By signing this Agreement, Tenant hereby irrevocably directs any such laboratory to provide City, within thirty (30) days, upon written request from City, copies of all of its reports, test results, and data which that are prepared in accordance with the requirements of this lease and/or regulatory agencies. Should Tenant fail to provide City with the requested information within thirty (30) days, City has the right to obtain such information directly from the laboratory. Tenant hereby irrevocably directs any such laboratory to provide City, upon written request from City, copies of all of its reports, test results, and data gathered. As used in this Subsection 104.5, "Tenant" includes agents, employees, contractors, subcontractors, and/or invitees of the Tenant.

104.6 Survival of Obligations. Except as otherwise provided in this Section 104, this Section 104 and the obligations herein shall survive the expiration or earlier termination of this Agreement.

Section 105. Alteration of Premises by Tenant.

105.1 Alterations Require City Authorization. Other than maintenance and repair undertaken in compliance with Section 107, Tenant shall make no improvements, alterations, additions, modifications, or changes to the Premises, including but not limited to the construction

of works or improvements or the changing of the grade of the Premises, or which affect the structural integrity of the Improvements on the Premises, or which substantially change the value or utility of the Improvements ("Alteration") without obtaining the Executive Director's prior written authorization to undertake such Alteration and a Harbor Engineer Permit. No Alterations shall be made for the purpose of altering the Permitted Uses unless approved in advance in writing by the Harbor Department Executive Director, which approval shall be in the Harbor Department's Executive Director's sole and absolute discretion. Tenant, at its sole cost and expense, shall procure any and all entitlements and permits (whether issued by Harbor Department or otherwise) necessary to undertake an Alteration, and, as between City and Tenant, shall design and construct the Alteration (unless otherwise directed by Executive Director) in accordance with Applicable Law. Tenant shall reimburse City for any reasonable costs City incurs in connection with Tenant's pursuit of an Alteration within thirty (30) days' written request by Executive Director. City reserves the right to inspect the design and/or construction of any Alteration upon reasonable notice. Tenant shall require by contract that its construction contractors and subcontractors comply with all Applicable Laws. Tenant shall undertake at its sole cost and expense any corrective actions requested by Executive Director as a result of such inspections. Executive Director may, without being so obligated, direct Tenant to remove any Alterations made in violation of this Section 105.1 at Tenant's sole cost and expense.

105.1.1 Payment and Performance Bonds.

105.1.1.1 Performance Bond. In connection with any works of improvement constructed or installed by Tenant, Tenant shall furnish, at its sole cost and expense (except as otherwise expressly provided in this Agreement), a performance bond as prescribed by the City Attorney in the principal sum (i.e., 100%) of the amount of the construction proposed by Tenant, or alternative security deposit for said amount acceptable to Executive Director.

105.1.1.2 Payment Bond. In connection with any works of improvement constructed or installed by Tenant, Tenant shall furnish, at its sole cost and expense (except as otherwise expressly provided in this Agreement), a payment bond as prescribed by the City Attorney in the principal sum (i.e., 100%) of the amount of the construction, alteration, repair or improvement work in excess of $25,000 proposed by Tenant, or alternative security deposit for said amount acceptable to Executive Director.

105.1.1.3 Tenant shall comply with the provisions of California Civil Code Sections 8600 to 8614 or Sections 9550 to 9566, as applicable to any such bonds, by filing the original contract and any modifications thereto in the office of the Los Angeles County Recorder, together with the bonds specified therein, and a conformed copy of such bonds, filed for record as aforesaid, shall be furnished by Tenant to City. Such payment and/or performance bonds shall be furnished no later than thirty (30) days prior to the commencement of such work. The payment and/or performance bonds shall be in substantially the same form as may be

prescribed from time to time by the City Attorney, be issued by a surety company satisfactory to Executive Director and authorized and licensed to transact business in the State of California, and be for the full amount stated above with the City of Los Angeles, Harbor Department, as obligee, and shall guarantee the full, faithful and satisfactory payment and performance by Tenant of its obligations to construct and install the aforementioned works of improvement, and shall guarantee the payment for all materials, provisions, supplies, and equipment used in, on, for, or about the performance of Tenant's works of improvement or labor done thereon of any kind, and shall protect City from any liability, losses, or damages arising therefrom.

105.2 Notice of Commencement and Completion of Work. Tenant shall give thirty (30) days advance written notice to the Chief Harbor Engineer, in advance, of the date it will commence any construction. Within thirty (30) days following completion of the Alteration's construction, Tenant shall file with the Chief Harbor Engineer, in a form acceptable to the Chief Harbor Engineer, a set of "as-built" plans for such, Alteration. Tenant shall also provide to the Chief Harbor Engineer copies of all permits issued in connection with such construction and copies of all documentation issued in connection with such completed construction, including but not limited to inspection reports and certificates of occupancy.

105.3 Tenant's Cost for Governmental Agency Requirements. Any modification, improvement, or addition to the Premises and any equipment installation required by any Governmental Agency in connection with Tenant's undertaking of the Permitted Uses shall be constructed or installed at Tenant's sole cost and expense.

Section 106. Utilities.

106.1 Generally. Tenant shall maintain on the Premises as-built drawings that identify the precise location of any pipelines, utilities or similar improvements of any type, that Tenant places on the Premises, or which were placed on the Premises by others and accepted by Tenant for use of the Premises, whether placed above or below ground, (which for the purposes of this Section 106, are collectively referred to as "utilities").

106.2 Locating Utilities. Upon twenty-four (24) hours' written notice by the Harbor Department, Tenant shall undertake at its sole cost and expense whatever measures are reasonably necessary, including subsurface exploration for any utilities or any other substructure placed on the Premises by Tenant, or placed by others and accepted by Tenant for use of the Premises, to precisely locate the position of such items if the Harbor Department considers the as-built drawings as insufficient to locate such items. Any work necessary to locate such items or any damage that may result from the location being incorrectly described, whether incurred by Tenant or the Harbor Department, shall be borne exclusively by Tenant. Exploration and preparation of all documentation recording the location of lines or structures shall be completed within the time specified in said notice, which time shall be commercially reasonable. The subsurface exploration shall verify the vertical as well as the horizontal location of all utilities and

substructures. Documentation reflecting the results of said exploration shall be filed with the Chief Harbor Engineer. If Tenant neglects, fails or refuses within the time specified in said notice to begin or fails to prosecute diligently to complete the work of locating any utilities or any other substructure placed on the Premise by Tenant, or placed by others and accepted by Tenant for use of the Premises, the Harbor Department shall have the right to enter the Premises to identify the precise location of any utilities or improvements of any type that Tenant has placed on the Premises, or that were placed by others and accepted by Tenant for use of the Premises, whether placed above or below ground. Tenant shall be solely responsible for City Costs associated with the right set forth in this Subsection 106.2 and shall pay City, as Additional Rent, within thirty (30) days of receiving an invoice for payment from City.

106.3 Relocation of Utilities; Harbor Department Right to Relocate. At any time during the term of this Agreement, the Executive Director shall have the right to make any change in the route or location of any utility constructed or maintained on the Premises by Tenant pursuant to the authority of this Agreement as may be required or made necessary for the progress of harbor development or the performance of any work or improvement within the jurisdiction of the Board. If the Executive Director determines that any such change or relocation is necessary, the Executive Director shall give at least ninety (90) days written notice to Tenant and the work of removal and relocation shall be completed within such time after said written notice as shall be fixed in said notice. The cost of any such removal and relocation shall be borne by Tenant. If Tenant neglects, fails or refuses within the time specified in said notice to begin or fails to prosecute diligently to completion the work of relocating the pipelines, the Harbor Department shall have the right to enter the Premises and relocate the utility. Tenant shall be solely responsible for City Costs associated with the right set forth in this Subsection 106.3 and shall pay City, as Additional Rent, within thirty (30) days of receiving an invoice for payment from City.

106.4 Rules Governing Utilities. After installation, and in any event for the duration of this Agreement, Tenant shall comply with the Applicable Laws regarding utilities testing and inspection requirements.

Section 107. Maintenance and Repair.

107.1 Generally. Except for those items identified on in Exhibit "J" attached hereto and incorporated herein as if set forth in full (which Exhibit "J" may be amended by the Executive Director, in the Executive Director's reasonable discretion), and as set forth in Subsection 107.6 (City Maintenance Obligations) at all times, Tenant, at its sole cost and expense, shall keep and maintain the Premises, and all buildings, works and improvements of any kind thereon, including without limitation the paving, the improvements existing on the Premises as of the Effective Date as depicted on Exhibit "B," in good and substantial repair and condition, whether or not the need for such repairs occurs as a result of Tenant's use, any prior use, the elements, or the age of such portion of the Premises or improvements thereon, and shall be responsible for and perform all necessary inspection, maintenance and repair thereof, including preventive maintenance, using materials and workmanship of similar quality to the original improvements, or updated to current standards for such improvements. Tenant shall obtain any permits, including but not limited to

those issued by City, necessary for such maintenance and repair. City shall reimburse Tenant for any repairs made necessary by use of the Premises by a temporary user pursuant to Subsection 102.4 (Temporary Assignments).

107.2 Failure to Maintain. If Tenant fails to make any repairs or to perform required maintenance within thirty (30) days after receipt of notice from City to do so, City may, but shall not be obligated to, make such repairs or perform such maintenance. Notwithstanding, in an emergency as determined by City (including but not limited to an immediate threat of physical harm to persons and/or material damage to the Premises and/or structural or foundational damage to any improvements thereon), City shall have the right, but not the obligation, to undertake immediate repairs to the Premises and any structures thereon without notice. Tenant shall reimburse City for City's Costs within thirty (30) days after receipt of City's invoice for work performed. In the event Tenant shall commence such repairs and diligently prosecute the same to completion or shall begin to perform the required maintenance within the thirty (30) day period, City shall refrain from commencing or prosecuting further any repairs or performing any required maintenance until the work has been completed by Tenant. Tenant shall thereafter pay on demand City's costs incurred pursuant to this Subsection 107.2 prior to Tenant's commencement of repair or maintenance. The making of any repairs or the performance of maintenance by City, which is the responsibility of Tenant, shall in no event be construed as a waiver of the duty or obligation of Tenant to make future repairs or perform required maintenance as herein provided.

107.3 Litter and Debris. Tenant, at its sole cost and expense, shall provide sufficient dumpsters or other like containers for trash collection and disposal and keep the Premises free and clear of rubbish, debris, litter, and graffiti at all times. Tenant shall perform annually, at a minimum, before the commencement of the rainy season, inspections and cleaning of any storm water catch basins (including filters), maintenance holes, and drains, and, to the extent applicable to this Agreement, maintaining the submerged land underlying any water berthing area at the Premises free and clear of debris from the wharf and from vessels, and cargo loading and unloading operations of vessels berthed at said berths in connection with Tenant's undertaking of the Permitted Uses. Tenant, at its sole cost and expense, further shall keep and maintain the Premises in a safe, clean and sanitary condition in accordance with all Applicable Laws.

107.4 Fire Protection Systems. All fire protection sprinkler systems, standpipe systems, fire hoses, fire alarm systems, portable fire extinguishers and other fire-protective or extinguishing systems, with the exception of hydrant systems, which have been or may be installed on the Premises shall be maintained and repaired by Tenant, at its cost, in an operative condition at all times.

107.5 City Inspections. Upon City's request, Tenant shall provide personnel to accompany City's representatives on periodic inspections of the Premises to determine Tenant's compliance with this Permit. Notwithstanding the foregoing, nothing obligates City to make such determinations and City shall not incur any liability for not making such inspections and determinations.

107.6 City Maintenance Obligations. In addition to the improvements listed in Exhibit "J," City shall be responsible for the maintenance and repair of all roofs and fire safety systems on improvements owned by City as reflected on Exhibit "B" but only to the extent such maintenance and repair was not caused by the Tenant. To the extent that the Harbor Department maintains any utilities utilized by Tenant, the Harbor Department shall assess a maintenance fee to cover the cost of such maintenance which assessment shall be Additional Rent.

Section 108. Default and Termination.

108.1 Tenant's Default.

108.1.1 Event of Default. The occurrence of any of the following shall constitute a material breach and default by Tenant under this Agreement:

(a) Tenant's failure to pay when due any Rent required to be paid under this Agreement if the failure continues for three (3) business days after written notice of the failure from City to Tenant;

(b) Tenant's failure to comply with any term, provision, or covenant of this Agreement other than paying Rent, and does not commence to cure such failure within thirty (30) days after delivery of written notice of the failure from City to Tenant or does not cure the failure within ninety (90) days after delivery of such notice. An extension may be granted by the Executive Director to cure such failure, as Tenant commences to cure within thirty (30) days of delivery of the notice and diligently proceeds to cure such default to completion.

(c) Tenant's abandonment of the Premises, including but not limited to (i) Tenant's absence from or failure to use the Premises or any substantial portion thereof for three (3) consecutive days (excluding Saturdays, Sundays, and California legal holidays) while in default of any provision of this Agreement; or (ii) if not in default, Tenant's absence from or failure to use the Premises or any substantial portion thereof for a period of thirty (30) consecutive days unless Tenant, prior to the expiration of any such period of thirty (30) consecutive days, notifies the Executive Director in writing that such nonuse is temporary and obtains the written consent of the Executive Director to such nonuse;

(d) To the extent permitted by law:

(1) A general assignment by Tenant or any guarantor of the Agreement for the benefit of the creditors without written consent of City;

(2) The filing by or against Tenant, or any guarantor, of any proceeding under an insolvency or bankruptcy law, unless (in the case of an involuntary proceeding) the proceeding is dismissed within sixty (60) days;

(3) The appointment of a trustee or receiver to take possession of all or substantially all the assets of Tenant or any guarantor, unless possession is unconditionally restored to Tenant or that guarantor within thirty (30) days and the trusteeship or receivership is dissolved; and/or

(4) Any execution or other judicially authorized seizure of all or substantially all the assets of Tenant located on the Premises, or of Tenant's interest in this Agreement, unless that seizure is discharged within thirty (30) days;

(e) The undertaking of a use other than a Permitted Use on the Premises if Tenant fails to discontinue such use within three (3) calendar days after delivery of written notice from City to Tenant demanding that Tenant cease and desist such unpermitted use.

108.1.2 City's Remedies on Tenant's Default. On the occurrence of a default by Tenant, City shall have the right to pursue any one or more of the following remedies in addition to any other remedies now or later available to City at law or in equity. These remedies are not exclusive but are instead cumulative. Any monetary sums that result from application of this Subsection 108.1.2 shall be deemed Additional Rent.

108.1.2.1 Termination of Agreement. City may terminate this Agreement and recover possession of the Premises. Once City has terminated this Agreement, Tenant shall immediately surrender the Premises to City. On termination of this Agreement, pursuant to Civil Code Section 1951.2 or its successor, City may recover from Tenant all of the following:

(a) The worth at the time of the award of any unpaid Rent that had been earned at the time of the termination, to be computed by allowing interest at the rate set forth in Item 270 of the Tariff but in no case greater than the maximum amount of interest permitted by law;

(b) The worth at the time of the award of the amount by which the unpaid Rent that would have been earned between the time of the termination and the time of the award exceeds the amount of unpaid Rent that Tenant proves could reasonably have been avoided, to be computed by allowing interest at the rate set forth in Item 270 of the Tariff but in no case greater than the maximum amount of interest permitted by law;

(c) The worth at the time of the award of the amount by which the unpaid Rent for the balance of the term of the Agreement after the time of the award exceeds the amount of unpaid Rent that Tenant proves could reasonably have been avoided, to be computed by discounting that amount at the discount rate of the Federal Reserve Bank of San Francisco at the time of the award plus two percent (2%);

(d) Any other amount necessary to compensate City for all the detriment proximately caused by Tenant's failure to perform obligations under this Agreement, including, without limitation, restoration expenses, expenses of improving the Premises for a new tenant (whether for the same or a different use), brokerage commissions, and any special concessions made to obtain a new tenant;

(e) Any other amounts, in addition to or in lieu of those listed above, that may be permitted by Applicable Law; and

(f) To the extent that Tenant fails to surrender the Premises after Termination, Tenant agrees that the damages to City for such holdover shall be one hundred fifty percent (150%) of the Rent payable for the last month prior to the Termination of this Agreement or one hundred fifty percent (150%) of the fair market rental at the time of the Termination, whichever is greater.

108.1.2.2 Continuation of Agreement in Effect. City shall have the remedy described in Civil Code Section 1951.4, which provides that, when a tenant has the right to sublet or assign (subject only to reasonable limitations), the City may continue the Agreement in effect after the tenant's breach and abandonment and recover Rent as it becomes due. Accordingly, if City does not elect to terminate this Agreement on account of any default by Tenant, City may enforce all of City's rights and remedies under this Agreement, including the right to recover all Rent as it becomes due.

108.1.2.3 Tenant's Subleases. Whether or not City elects to terminate this Agreement on account of any default by Tenant, City may:

(a) Terminate any sublease, license, concession, or other consensual arrangement for possession entered into by Tenant and affecting the Premises; or

(b) Choose to succeed to Tenant's interest in such an arrangement. If City elects to succeed to Tenant's interest in such an arrangement, Tenant shall, as of the date of notice by City of that election,

have no further right to, or interest in, the Rent or other consideration receivable under that arrangement.

108.1.3 Form of Payment After Default. If Tenant fails to pay any amount due under this Agreement within three (3) days after the due date or if Tenant draws a check on an account with insufficient funds, City shall have the right to require that any subsequent amounts paid by Tenant to City under this Agreement (to cure a default or otherwise) be paid in the form of cash, money order, cashier's or certified check drawn on an institution acceptable to City, or other form approved by City despite any prior practice of accepting payments in a different form.

108.1.4 Acceptance of Rent Without Waiving Rights. City may accept Tenant's payments without waiving any rights under this Agreement, including rights under a previously served notice of default. If City accepts payments after serving a notice of default, City may nevertheless commence and pursue an action to enforce rights and remedies under the previously served notice of default, including any rights City may have to recover possession of the property.

108.1.5 Cross Default. A material breach of the terms of any other permit, license, lease or other contract held by Tenant and City shall constitute a material breach of the terms of this Agreement and shall give City the right to terminate this Agreement for cause in accordance with the procedures set forth in this Section 108.

108.2 City's Defaults.

108.2.1 Event of Default. City's failure to perform any of its obligations under this Agreement, if City fails to commence to cure the failure within sixty (60) days after delivery of written notice of the failure from Tenant to City, or if the failure continues for ninety (90) days after delivery of such notice, unless the failure is such that it cannot be cured in ninety (90) days, in which case if City fails to diligently cure within a reasonable amount of time, shall constitute a default.

108.2.2 Tenant's Remedy on City Default. Tenant's sole remedy for a City default shall be to seek specific performance in a court of competent jurisdiction.

108.3 Replacement of Statutory Notice Requirements. When this Agreement requires service of a notice, that notice shall replace rather than supplement any equivalent or similar statutory notice, including any notices required by Code of Civil Procedure Section 1161 or any similar or successor statute. When a statute requires service of a notice in a particular manner, service of that notice (or a similar notice required by this Agreement) in the manner required by Section 6 (Notices) shall replace and satisfy the statutory service-of-notice procedures, including those required by Code of Civil Procedure Section 1162 or any similar or successor statute.

Notwithstanding the foregoing, nothing herein contained shall preclude or render inoperative service of notice in the manner provided by law.

Section 109. Force Majeure.

Except as otherwise provided in this Agreement, whenever a day is established in this Agreement on which, or a period of time, including a reasonable period of time, is designated within which, either Party is required to do or complete any act, matter or thing, the time for the doing or completion thereof shall be extended by a period of time equal to the number of days on or during which such Party is prevented from, or is unreasonably interfered with, the doing or completion of such act, matter or thing because of acts of God, the public enemy, or public riots; failures due to nonperformance or delay of performance by suppliers or contractors; any order, directive or other interference by municipal, state, federal, or other governmental official or agency (other than City's failure or refusal to issue permits for the construction, use, or occupancy of City's Improvements or the Premises); any catastrophe resulting from the elements, flood, fire, or explosion; or any other cause reasonably beyond the control of a Party, but excluding strikes or other labor disputes, lockouts, or work stoppages ("Force Majeure"); provided, however, that this Section 109 shall not apply to (1) the time for payment of Rent or any other monetary obligation or the obligation to pay Rent or any other monetary obligation, (2) the insurance provisions set forth in this Agreement, or (3) to extend the term of the Agreement beyond fifty (50) years. In the event of the happening of any of such contingency events, the Party delayed by Force Majeure shall immediately give the other Party written notice of such contingency, specifying the cause for delay or failure, and such notice from the Party delayed shall be prima facie evidence that the delay resulting from the causes specified in the notice is excusable. The Party delayed by Force Majeure shall use reasonable diligence to remove the cause of delay, and if and when the event which delayed or prevented the performance of a Party shall cease or be removed, the Party delayed shall notify the other Party immediately, and the delayed Party shall recommence its performance of the terms, covenants and conditions of this Agreement.

Section 110. Indemnity and Insurance.

110.1 Indemnity.

110.1.1 Generally. Tenant shall at all times relieve, indemnify, protect, and save harmless City and any and all of its boards, officers, agents, and employees from any and all claims and demands, actions, proceedings, losses, liens, costs, and judgments of any kind and nature whatsoever, including cost of litigation (including all actual litigation costs incurred by the City, including but not limited to, costs of attorneys (including in-house legal counsel) and/or experts and consultants), for death of, or injury to, persons, or damage to property, including property owned by or under the care and custody of City, and for civil fines and penalties that may arise from or be caused directly or indirectly by:

(a) Any dangerous, hazardous, unsafe, or defective condition of, in, or on the Premises, of any nature whatsoever, which may exist by reason of any act, omission, neglect, or any use or occupation of the Premises by Tenant, its officers, agents, employees, sublessees, licensees or invitees;

(b) Any operation conducted upon, or any use or occupation of, the Premises by Tenant, its officers, agents, employees, sublessees, licensees, or invitees under or pursuant to the provisions of this Agreement or otherwise;

(c) Any act, error, omission, willful misconduct, or negligence of Tenant, its officers, agents, employees, sublessees, licensees, or invitees, arising from the use, operation, or occupancy of the Premises, regardless of whether any act, omission, or negligence of City, its officers, agents, or employees contributed thereto;

(d) Any failure of Tenant, its officers, agents or employees to comply with any of the terms or conditions of this Agreement or Applicable Laws;

(e) The conditions, operations, uses, occupations, acts, omissions, or negligence referred to in subsections (a) through (d) above, existing or conducted upon, or arising from, the use or occupation by Tenant or its invitees on any other premises within the "Harbor District," as defined in City's Charter;

(f) Term Contamination, including, without limitation, diminution of the value of the Premises, damages for loss or restriction on use of rentable or useable space or of any amenity of the Premises, damages arising from any adverse impact on marketing of space, and sums paid in settlement of claims, attorneys' fees, consultant fees and expert fees) which arise during or after the Agreement term as a result of Term Contamination for which Tenant is otherwise responsible for under the terms of this Agreement, and costs incurred in connection with any investigation of site conditions or any clean up, remedial, removal or restoration work required by any federal, state or local governmental agency;

(g) Any Tenant breach of this Agreement.

This Subsection 110.1.1 shall not be construed to make Tenant responsible for loss, damage, liability, or expense to third-parties to the extent caused solely by the gross negligence or willful misconduct of City.

110.1.2 Damage to or Loss of Property, Loss of Revenue. Tenant also agrees to indemnify City and pay for all damages or loss suffered by City and Harbor Department including, but not limited to, damage to or loss of property, and loss of City revenue from any source, caused by or arising out of the conditions, operations, uses, occupations, acts,

omissions, or negligence referred to in this Section 110. The term "persons" as used in this Section 110 shall include, but not be limited to, officers and employees of Tenant.

110.1.3 Survival of Obligations. The indemnity obligations in this Section 110 shall survive the expiration or earlier termination of this Agreement and shall apply regardless of the active or passive gross negligence of City and regardless of whether liability without fault or strict liability is imposed or sought to be imposed on City.

110.2 Insurance. THE FOLLOWING INSURANCE PROVISION IS A PLACEHOLDER THAT INCLUDES BOILERPLATE CURRENT AS OF SEPTEMBER 2021. THE NATURE OF THE TRANSACTION WILL DRIVE THE COVERAGE REQUIRED AND THEIR LIMITS AND AMOUNTS, ALL OF WHICH ARE WITHIN THE PURVIEW OF THE RISK MANAGEMENT DIVISION. In addition to, and not as a substitute for, or limitation of, any of the indemnity obligations imposed by this Agreement, Tenant shall procure and maintain at its expense and keep in force at all times during the term of this Agreement the types and amounts of insurance specified on Insurance Assessment, Exhibit "K," attached hereto and incorporated by reference herein. The specified insurance shall also, either by provisions in the policies, by City's endorsement form or by other endorsement attached to such policies, include and insure City, its Harbor Department, its Board and all of City's officers, employees, and agents, their successors and assigns, as additional insureds, against the areas of risk described in Exhibit "K" and below, with respect to Tenant's acts or omissions in its operation, use and occupancy of the Premises or other related functions performed by or on behalf of Tenant in, on or about the Harbor District. The types of insurance which are required must meet the following conditions during the term of this Agreement and any holdover periods:

110.2.1 Commercial General Liability. Commercial general liability insurance, including contractual liability and property damage insurance written by an insurance company authorized to do business in the State of California, or approved by the California Department of Insurance as a surplus lines insurer eligible to do business in California, rated VII, A- or better in Best's Insurance Guide (or an alternate guide acceptable to City if a Best's Rating is not available) with Tenant's normal limits of liability, but not less than set forth in Exhibit "K" for each accident or occurrence. Where Tenant owns watercraft, liability coverage for such craft must be provided as follows:

(a) Hull and machinery coverage for the value of each vessel which will call at the Premises during the term of this Agreement, if any; and

(b) Protection and indemnity coverage with combined single limits as set forth in Exhibit "K" per occurrence for bodily injury, illness, death, loss of or damage to the property of another, Jones Act risks or equivalent thereto internationally, and pollution liability to which it is agreed that the additional insured provisions as required and described below must be included. Pollution liability shall include coverage for bodily injury, including death and mental anguish, property damage, defense costs and cleanup costs. Such coverage shall contain a defense of suits provision and a severability of interest clause.

The submitted policy shall, in addition, provide the following coverage either in the original policy or by endorsement substantially as follows:

"Notwithstanding any inconsistent statement in the policy to which this endorsement is attached, or any endorsement or certificate now or hereafter attached hereto, it is agreed that City, Board, their officers, agents and employees, are additional insureds hereunder, and that coverage is provided for all operations, uses, occupations, acts and activities of the insured under Permit No. ___, and under any amendments, modifications, extensions or renewals of said Permit regardless of whether such operations, uses, occupations, acts and activities occur on the Premises or elsewhere within the Harbor District.

"The coverage provided by the policy to which this endorsement is attached is primary coverage and any other insurance carried by City is excess coverage;

"In the event of one of the named insureds incurring liability to any other of the named insureds, this policy shall provide protection for each named insured against whom claim is or may be made, including claims by other named insureds, in the same manner as if separate policies had been issued to each named insured. Nothing contained herein shall operate to increase the company's limit of liability; and

"Notice of occurrences or claims under the policy shall be made to the Risk Manager of City's Harbor Department with copies to the City Attorney's Office."

110.2.2 Fire Legal Liability. In addition to and concurrently with the aforesaid insurance coverage, Tenant shall also secure and maintain, either by an endorsement thereto or by a separate policy, fire legal liability insurance in the amounts set forth in Exhibit "K," covering legal liability of Tenant for damage or destruction to the works, buildings and improvements owned by City provided that said minimum limits of liability shall be subject to adjustments by the Executive Director to conform with the deductible amount of the fire insurance policy maintained by the Board, with waiver of subrogation in favor of Tenant so long as permitted by the Board's fire insurance policy.

110.2.3 Automobile Liability. Where Tenant utilizes any vehicles, Tenant shall procure and maintain automobile insurance with limits of liability not less than set forth in Exhibit "K" covering injuries or death resulting from each accident or claim arising out of any one claim or accident. This insurance shall cover all owned, non-owned, and/or hired automobiles.

110.2.4 All Risk Insurance. Fire and extended coverage insurance covering a percentage of the replacement value, as set forth in Exhibit "K," of the works, buildings

and improvements erected or owned by Tenant on the Premises, with such provision in the policies issued to cover the same, or in riders attached thereto, as will provide for all losses the amount stated in Exhibit "K" to be payable to Board to be held in trust for reconstruction. In the event of loss or damage by fire to any of such buildings or improvements, Tenant shall commence replacement or reconditioning of such items within ninety (90) days following any such loss. Tenant shall proceed diligently and with reasonable dispatch to take all steps and do all work required to replace or recondition such items. In the event Tenant commences such replacement or reconditioning within said period of ninety (90) days, such proceeds shall be released by Board to Tenant as payments are required for said purpose. Upon the completion of such replacement or reconditioning to the satisfaction of the Executive Director, any balance thereof remaining shall be paid to said Tenant forthwith. In the event Tenant fails to undertake such replacement or reconditioning within said period of ninety (90) days, such proceeds may be retained by City.

110.2.5 Environmental Impairment Liability Insurance. Should Tenant's operations involve the storage or use of any type of hazardous materials or pollutants, the Tenant shall be required to maintain environmental impairment liability insurance which shall include coverage for bodily injury, property damage, including third-party claims for on-site and off-site bodily injury and property damage, clean-up and defense, with a limit of at least the amount set forth in Exhibit "K" per occurrence, which is to remain in effect at least five (5) years after the termination of the Agreement.

110.2.6 Workers' Compensation. Tenant shall secure the payment of compensation to employees injured while performing work or labor necessary for and incidental to performance under this Agreement in accordance with Section 3700 of the Labor Code of the State of California. Tenant shall file with the City one of the following: 1) a certificate of consent to self-insure issued by the Director of Industrial Relations, State of California; 2) a certificate of Workers' Compensation insurance issued by an admitted carrier; or 3) an exact copy or duplicate thereof of the policy certified by the Director or the insurer. Such documents shall be filed prior to delivery of Premises. Where Tenant has employees who are covered by the United States Longshore and Harbor Workers' Compensation Act, Tenant shall furnish proof of such coverage to the City. It is suggested that Tenant consult an insurance professional of its choosing to determine whether its proposed operation methods will render its employees subject to coverage under such Act. All Workers' Compensation insurance submitted to City shall include an endorsement providing that any carrier paying benefits agrees to waive any right of subrogation it may have against City.

110.2.7 Insurance Features. Such insurance procured by Tenant shall include the following features:

(a) Notice of Cancellation. For each insurance policy described above, Tenant shall give to the Board of Harbor Commissioners a ten (10) days' prior

written notice of cancellation or reduction in coverage for nonpayment of premium, and a thirty (30) days' written notice of cancellation or reduction in coverage for any other reason, by written notice via registered mail and addressed to the City of Los Angeles Harbor Department, Attn: Risk Manager and the City Attorney's Office, 425 S. Palos Verdes Street, San Pedro, California 90731.

(b) Acceptable Evidence and Approval of Insurance. Electronic submission is the required method of submitting Tenant's insurance documents. Tenant's insurance broker or agent shall obtain access to KwikComply at http://kwikcomply.org and follow the instructions to register and submit the appropriate proof of insurance on Tenant's behalf.

(c) Renewal of Policies. Prior to the expiration of each policy, Tenant shall show through submitting to KwikComply that the policy has been renewed or extended or, if new insurance has been obtained, submit the appropriate proof of insurance to KwikComply. If Tenant neglects or fails to secure or maintain the required insurance, or if Tenant fails to submit proof of insurance as required above, the City's Harbor Department may, at its option and at the expense of Tenant, obtain such insurance for Tenant.

(d) Certified Copies of Policies. Upon request by Executive Director, Tenant must furnish a copy of the binder of insurance and/or full certified copies of any or all policies of insurance required herein. Tenant's obligation to provide such copies shall survive the Expiration Date regardless of whether Executive Director's request is made prior to or after the Expiration Date.

(e) Modification of Coverage. The Executive Director, or designee, at the Executive Director's discretion, may require that Tenant increase or decrease amounts and types of insurance coverage required hereunder at any time during the term hereof by giving ninety (90) days' prior written notice to Tenant. The modification of coverage shall occur no less than every five (5) years of the term to ensure that the coverage amounts are consistent with industry standards at the time of the modification for the Permitted Uses of the Premises.

(f) Accident Reports. Tenant shall report in writing to Executive Director within fifteen (15) days after it, its officers or managing agents have knowledge of any accident or occurrence involving death of or injury to any person or persons, or damage in excess of Fifty Thousand Dollars ($50,000) to property, occurring upon the Premises, or elsewhere within the Harbor District, if Tenant's officers, agents or employees are involved in such an accident or occurrence while undertaking the Permitted Uses. Such report shall contain to the extent available: (1) the name and address of the persons involved; (2) a general statement as to the nature and extent of injury or damage; (3) the date and hour of occurrence;

(4) the names and addresses of known witnesses; and (5) such other information as may be known to Tenant, its officers or managing agents.

110.2.8 Right to Self-Insure. The required coverage above shall provide first dollar coverage except that the Executive Director may permit a self-insured retention or self-insurance in those cases where, in the Executive Director's judgment, such retention or self-insurance is justified by the net worth of Tenant. The retention or self-insurance shall provide that any other insurance maintained by the Department shall be excess of Tenant's insurance and shall not contribute to it. In all cases, regardless of any deductible, retention, or self-insurance, Tenant shall have the obligations of an "insurer" under the California Insurance Code and said insurance shall be deemed to include a defense of suits provision and a severability of interest clause. Upon written approval by the Executive Director, Tenant may self-insure if the following conditions are met:

(a) Tenant has a formal self-insurance program in place prior to execution of this Agreement. If a corporation, Tenant must have a formal resolution of its board of directors authorizing self-insurance;

(b) Tenant agrees to protect the City, its boards, officers, agents and employees at the same level as would be provided by full insurance with respect to types of coverage and minimum limits of liability required by this Agreement;

(c) Tenant agrees to defend the City, its boards, officers, agents and employees in any lawsuit that would otherwise be defended by an insurance carrier;

(d) Tenant agrees that any insurance carried by Department is excess of Tenant's self-insurance and will not contribute to it;

(e) Tenant provides the name and address of its claims administrator;

(f) Tenant submits its most recently filed 10-Q and its 10-K or audited annual financial statements for the three most recent fiscal years prior to the Executive Director's consideration of approval of self-insurance and annually thereafter;

(g) Tenant agrees to inform Department in writing immediately of any change in its status or policy which would materially affect the protection afforded Department by this self-insurance; and

(h) Tenant has complied with all laws pertaining to self-insurance.

110.2.9 Increased Insurance Risks. Following the Effective Date, should an event occurring in or about the Premises cause either cancellation or increased rates with

respect to any insurance that City may have on the Premises or on adjacent premises, or cause either cancellation or increased rates with respect to any other insurance coverage for the Premises or adjacent premises, upon receipt of written notice from City that cancellation of insurance or increased insurance rates is threatened or has occurred, Tenant immediately shall take appropriate steps to ensure that City is not adversely affected. In City's sole reasonable discretion, such steps may include Tenant: correcting the condition; providing any necessary insurance; paying the increased cost of City's insurance; and/or indemnifying City against any uninsured or underinsured loss on a claim.

110.2.10 Other. City agrees to cause insurance policies covering City-owned property to be endorsed with a waiver of subrogation against Tenant and Tenant's parent and affiliates, for any loss or damage to such property arising from Tenant's operations or activities under this Agreement.

110.3 Additional Insurance Maintained by Tenant. If Tenant maintains higher limits than the minimums required above by the City, City shall be entitled to coverage for the higher limits maintained by Tenant. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to City.

110.4 Limits for Coverage. Limits for coverage required under this Section 110 shall provide first dollar coverage except that Executive Director may permit a self-insured retention or self-insurance in those cases where, in his or her sole judgment, such retention or self-insurance is justified by the net worth of Tenant. The self-insured retention or self-insurance shall provide that any other insurance maintained by Harbor Department shall be excess of Tenant's insurance and shall not contribute to it. In all cases, regardless of any deductible, retention, or self-insurance, Tenant shall have all the obligations of an "insurer" under the California Insurance Code and said insurance shall be deemed to include a defense of suits provision and a severability of interest clause.

110.5 Additional Requirements. Policies submitted pursuant to this Section 110 shall, in addition, provide the following coverage either in the original policy or by endorsement substantially as follows:

"Notwithstanding any inconsistent statement in the policy to which this endorsement is attached, or any endorsement or certificate now or hereafter attached hereto, it is agreed that the City of Los Angeles, acting by and through its Harbor Department, the Board of Harbor Commissioners, and their officers, agents, and employees, are additional insureds hereunder, and that coverage is provided for all contractual obligations, operations, uses, occupations, acts, and activities of all the insureds, including any sole negligence of the additional insureds, under Permit No. _____, and under any amendments, modifications, extensions, or renewals of said Permit regardless of whether such contractual obligations, operations, uses, occupations, acts, and activities occur on the Premises or elsewhere."

"The coverage provided by the policy to which this endorsement is attached is primary coverage and any other insurance carried by the City is excess coverage."

"In the event of one of the named insureds incurring liability to any other of the named insureds, this policy shall provide protection for each named insured against whom claim is or may be made, including claims by other named insureds, in the same manner as if separate policies had been issued to each named insured. Nothing contained herein shall operate to increase the insurance company's limit of liability."

"Notice of occurrences or claims under the policy shall be made to the City's Risk Manager with copies to the Los Angeles City Attorney's Office."

110.6 Workers' Compensation. Tenant shall secure the payment of compensation to any employees injured while performing work or labor necessary for and incidental to performance under this Agreement in accordance with Section 3700 of the California Labor Code of the State of California. Tenant shall file with the City one of the following:

110.6.1 A certificate of consent to self-insure issued by the Director of Industrial Relations, State of California;

110.6.2 A certificate of Workers' Compensation insurance issued by an admitted carrier; or

110.6.3 An exact copy or duplicate thereof of the policy certified by the Director of Industrial Relations or the insurer. Such documents shall be filed prior to Tenant's occupancy of the Premises. Where Tenant has employees who are covered by the United States Longshore and Harbor Workers' Compensation Act, ("USLHWC Act"), Tenant shall furnish proof of such coverage to the City. It is suggested that Tenant consult with its insurance professional of its choosing to determine whether its proposed operation methods will render its employees subject to coverage under the USLHWC Act. All Workers' Compensation insurance submitted to City shall include an endorsement providing that any carrier paying benefits agrees to waive any right of subrogation it may have against City.

110.7 Insurance Features. All insurance procured by Tenant shall comply with the following features:

110.7.1 Notice of Cancellation. Each insurance policy described above shall provide that it will not be cancelled or reduced in coverage until after City's Risk Manager has been given a ten (10) days' written notice of cancellation for nonpayment of premium, and a thirty (30) days' written notice of cancellation for any other reason.

110.7.2 Acceptable Evidence and Approval of Insurance. Electronic submission is the required method of submitting Tenant's insurance documents. KwikComply® is the City's online insurance compliance system and is designed to make the experience of submitting and retrieving insurance information quick and easy. The system which is designed to be used primarily by insurance brokers and agents to submit client insurance certificates directly to the City. It uses the standard insurance industry form known as the ACORD 25 Certificate of Liability Insurance in electronic format. The advantages of KwikComply include standardized, universally accepted forms, paperless approval transactions (24 hours, 7 days per week), and security checks and balances. Tenant's insurance broker or agent shall obtain access to KwikComply® at https://kwikcomply.org/http://kwikcomply.org and follow the instructions to register and submit the appropriate proof of insurance on Tenant's behalf.

110.7.3 Renewal of Policies. Prior to the expiration of each policy, Tenant shall show through submitting to KwikComply® that the policy has been renewed or extended or, if new insurance has been obtained, submit the appropriate proof of insurance to KwikComply®. If Tenant neglects or fails to secure or maintain the required insurance, or if Tenant fails to submit proof of insurance as required above, the City's Harbor Department may, at its option and at the expense of Tenant, may obtain such insurance for Tenant.

110.7.4 Modification of Coverage. Executive Director, at his or her discretion, based upon recommendation of the Risk Manager of Harbor Department, may request that Tenant increase or decrease amounts and types of insurance coverage required hereunder at any time during the term hereof by giving written notice to Tenant.

110.7.5 Certified Copies of Policies. Immediately upon procuring any and all policies of insurance required herein, Tenant must request from Tenant's insurance carrier(s) full certified copies of such policies of insurance. Tenant shall thereafter provide such full certified copies of such policies to City within thirty (30) days of Tenant's receipt of such policies from Tenant's insurance carrier(s). Tenant's obligation to provide such copies shall survive the Expiration Date of this Agreement regardless of whether Tenant receives such policies prior to or after the Expiration Date of this Agreement. Tenant shall further provide written notice to City of any change of terms of any policies of insurance required herein within thirty (30) days of any such change.

110.7.6 Accident Reports. Tenant shall report in writing to Executive Director within fifteen (15) days after it, its officers, or its managing agents have knowledge of any accident or occurrence involving death of or injury to any person or persons, or damage in excess of Fifty Thousand Dollars ($50,000) to property, occurring upon the Premises, or elsewhere within the Harbor District, if Tenant's officers, agents, or employees are involved in such an accident or occurrence while undertaking the Permitted Uses. Such report shall contain to the extent available: (1) the name and address of the persons involved; (2) a general statement as to the nature and extent of injury or damage; (3) the

date and hour of occurrence; (4) the names and addresses of known witnesses; and (5) such other relevant information as may be known to Tenant, its officers, or its managing agents.

110.7.7 Right to Self-Insure. Upon written approval by the Executive Director, Tenant may self-insure if the following conditions are met:

(a) Tenant has a formal self-insurance program in place prior to execution of this Agreement. If a corporation, Tenant must have a formal resolution of its board of directors authorizing self-insurance. If a limited liability company, Tenant must have a formal resolution of its members authorizing self-insurance;

(b) Tenant agrees to protect the City, its boards, officers, agents and employees at the same level as would be provided by full insurance with respect to types of coverage and minimum limits of liability required by this Agreement;

(c) Tenant agrees to defend the City, its boards, officers, agents and employees in any lawsuit that would otherwise be defended by an insurance carrier;

(d) Tenant agrees that any insurance carried by Department is excess of Tenant's self-insurance and will not contribute to it;

(e) Tenant provides the name and address of its claims administrator;

(f) Tenant submits its most recently filed 10-Q and its 10-K or audited annual financial statements for the three most recent fiscal years prior to the Executive Director's consideration of approval of self-insurance and annually thereafter;

(g) Tenant agrees to inform Department in writing immediately of any change in its status or policy which would materially affect the protection afforded Department by this self-insurance; and

(h) Tenant has complied with all laws pertaining to self-insurance.

110.8 Increased Insurance Risks. Following the Effective Date, should an event occurring in or about the Premises cause either cancellation or increased rates with respect to any insurance that City may have on the Premises or on adjacent premises, or cause either cancellation or increased rates with respect to any other insurance coverage for the Premises or adjacent premises, upon receipt of written notice from City that cancellation of insurance or increased insurance rates is threatened or has occurred, Tenant immediately shall take appropriate steps to ensure that City is not adversely affected. In City's sole reasonable discretion, such steps may include Tenant: correcting the condition; providing any necessary

insurance; paying the increased cost of City's insurance; and/or indemnifying City against any uninsured or underinsured loss on a claim. No offensive or refuse matter, or any substance constituting any unnecessary, unreasonable, or unlawful fire hazard, or material detrimental to the public health, shall ever be permitted by Tenant to be or remain on the Premises, and Tenant shall prevent any such material or matter from being or accumulating upon the Premises. Tenant further agrees not to keep on the Premises or permit to be kept, used, or sold thereon, anything prohibited by any policy of fire insurance covering the Premises or any structure erected thereon.

Section 111. Damage and Destruction to Improvements.

111.1 Notice; No Rent Abatement. Tenant shall promptly give City notice of any material damage or destruction of any or all of the improvements on the Premises ("Casualty") generally describing the nature and extent thereof. There shall be no abatement or reduction of Rent on account of any Minor Casualty and all obligations of Tenant under this Agreement shall remain unchanged and in full force and effect. In the case of a Major Casualty, provided that the Major Casualty was not caused by the act or omission of Tenant or any of its employees, agents, licensees, subtenants, customers, clients or invitees, until the repair and restoration of the Premises is completed, Tenant shall be required to pay rent only for that part of the Premises that Tenant is able to use while repairs are being made, based on the ratio that the amount of usable rentable area bears to the total rental area in the Premises.

111.2 Minor Casualty. In the event of any Minor Casualty at any time during the Term, and regardless of whether such Minor Casualty is insured or uninsured, Tenant shall be obligated to repair, rebuild or restore the damaged improvements.

111.3 Casualty Covered by Insurance. If, during the Term of this Agreement, any buildings, structures, or improvements on the Premises are partially or totally destroyed from a risk covered by the insurance required under this Agreement, thereby rendering the Premises partially or totally inaccessible or unusable, Tenant must restore the Premises to substantially the same condition as they were immediately before destruction.

111.4 Casualty Not Covered by Insurance. If, during the Term of this Agreement, improvements on the Premises are partially or totally destroyed from a risk not covered by the fire and extended coverage insurance required under this Agreement thereby rendering said Premises partially or totally inaccessible or unusable, such destruction shall not automatically terminate this Agreement. If, however, the cost of restoration exceeds one hundred ten percent (110%) of the full replacement value of improvements, as said value existed immediately before said destruction, City may, at City's option, terminate this Agreement by giving written notice to Tenant within sixty (60) days from the date of destruction. If City elects to terminate as above provided, Tenant shall be obligated, unless otherwise directed by City, to demolish all damaged improvements and remove all debris from the Premises, and otherwise comply with the restoration and surrender obligations contained in Section 117 (Restoration and Surrender of Premises), at Tenant's sole cost. If City fails to exercise its right to terminate this Agreement, this Agreement shall continue in full force and effect for the remainder of the term specified herein

and Tenant shall restore the Premises to substantially the same condition as they were in immediately before the damage or destruction.

111.5 Inapplicability of Civil Code Sections. The provisions of California Civil Code Sections 1932(2) and 1933(4), and any successor statutes, are inapplicable with respect to any destruction of any part of the Premises; such sections provide that a lease terminates on the destruction of the Premises unless otherwise agreed between the Parties to the contrary.

111.6 Damage to Wharf. Notwithstanding the foregoing, whether or not there is insurance to cover such Casualty, Tenant shall be responsible, at its sole cost and expense, for all costs, direct or indirect, associated with repairing any damage to the wharf structure on the Premises, including, but not limited to, damage resulting from a collision between a vessel and the wharf while docking or undocking, unless such damage is due to the sole active gross negligence of City or of a third-party on the Premises pursuant to Subsection 102.4 (Temporary Assignment), or by a secondary assignee to which the Premises are assigned. The Harbor Department shall have the option of either making the repairs or requiring Tenant to make the repairs. If the Harbor Department makes the repairs, Tenant agrees to reimburse the Harbor Department for the City's costs incurred in making the repairs. All damage shall be presumed to be the responsibility of Tenant and Tenant agrees to be responsible for such damage, unless Tenant can demonstrate to the satisfaction of the Executive Director that someone other than Tenant, its officers, agents, employees, customers, contractors, subtenants, licensees or other invitees caused the damage. The sufficiency of proof presented by Tenant to the Harbor Department shall be determined by the Executive Director in the Executive Director's sole judgment.

Section 112. Assignments, Transfers and Subleases.

112.1 Assignment, Transfer and Subletting; City's Consent Required.

112.1.1 Generally. Tenant shall not, in any manner, transfer or assign this Agreement, or any portion thereof or any interest therein, ("Assignment"), voluntarily or involuntarily, without the prior written consent of the Board, nor sublet or sublease the whole or any part of the Premises, nor license or permit the use of the same, in whole or in part, without the prior written consent of the Executive Director (collectively referred to as a "Transfer"). Any attempted Transfers or Assignments in violation of this Section 112 shall entitle City to recapture the Premises, and/or to collect from Tenant all rent or other compensation Tenant received as a result of the attempted Transfer or Assignment, at its sole and absolute option and discretion. In the event that the Tenant only wants to change its entity name or business name (i.e., a mere change in name not constituting a Transfer or Assignment within the meaning of this section 112), then such name change by Tenant may be made with the approval of the Executive Director. Tenant shall promptly, and in no case later than thirty (30) days prior to a change in name, notify the Executive Director in writing of any proposed changes to its name, or contact or delivery information, set forth in the preamble, or the notification sections, of this

Agreement. Tenant shall provide City with all documents in connection with any name change within ten (10) days of City's written request for such documents. Tenant shall not change its name until Tenant receives written approval from the Executive Director for Tenant to change its name.

112.1.2 Consent Required; Payment of City's Costs. No Transfer of this Agreement, or any interest therein or any right or privilege thereunder, regardless of whether accomplished by a separate agreement, sale of stock or assets, merger or consolidation or reorganization by, or of, Tenant (or any entity that directly or indirectly controls or owns fifty percent (50%) or more of Tenant), or accomplished in any other manner, whether voluntary or by operation of law, including but not limited to assignment, sublease, transfer, gift, hypothecation, or grant of total or partial control, or any encumbrance of this Agreement, shall be valid or effective for any purpose unless (i) Tenant receives the prior written consent of City and (ii) Tenant satisfies the requirements in Subsection 112.3 (Procedure to Obtain Consent to Transfer). Consent to one Transfer shall not be deemed to be a consent to any subsequent Transfer, and following any consent to a Transfer, Tenant shall remain responsible under this Agreement for any undischarged obligations of the Transferee . For purposes of this Subsection 112.1.2, the term "by operation of law" includes but is not limited to: (1) the placement of all or substantially all of Tenant's assets in the hands of a receiver or trustee; or (2) a transfer by Tenant for the benefit of creditors; or (3) transfers resulting from the death or incapacity of any individual who is a Tenant or of a general partner of a Tenant (except as provided in Subsection 112.2.2 (Partnerships)).

Tenant acknowledges and agrees that it shall be required to pay the City for all City Costs incurred to review all documents submitted in response to a request to Transfer.

112.1.3 Transfer of Assets. "Transfer" also shall include the involvement of Tenant or its assets in any transaction, or series of transactions (by way of merger, sale, acquisition, financing, transfer, leveraged buyout or otherwise) whether or not there is a formal assignment or hypothecation of this Agreement or Tenant's assets, which involvement results in a reduction of the net worth of Tenant (defined as the net worth of Tenant, excluding guarantors, established by generally accepted accounting principles) by an amount greater than twenty-five percent (25%) of such net worth as it was represented at the time of the execution of this Agreement, or at the time of the most recent Transfer to which City has consented, or as it exists immediately prior to said transaction or transactions constituting such reduction, whichever was or is greater.

112.2 Transfers of Ownership. A Transfer shall include:

112.2.1 Ownership or Control. The transfer of more than twenty-five percent (25%) of the economic interest in Tenant or any entity that directly or indirectly controls or owns fifty percent (50%) or more of Tenant in one or more transactions, regardless of

whether Tenant is a publicly or privately held entity, shall constitute a Transfer within the meaning of this Section 112.

112.2.2 Partnerships. If Tenant is a partnership, any transfer or attempted transfer by any general partner of Tenant of more than twenty-five percent (25%) of its partnership interest in Tenant in one or more transactions shall be a prohibited Transfer within the meaning of this Section 112. Notwithstanding the foregoing, if any transfer of a general partner's interest is due to the death of a general partner and results in the transfer to the immediate members of the general partner's family, who will be immediately and personally involved in the operation of the partnership, the City shall not unreasonably withhold its consent to such transfer.

112.2.3 Guarantor. If a parent or other entity or person has guaranteed or otherwise secured any or all of Tenant's obligations under this Agreement and if the ownership, makeup or financial condition of such parent or other entity or person has, in the reasonable discretion of the Executive Director, materially changed at any point during the term of this Agreement, the right is reserved for City to require amendments of such guaranty, the provision of new security, or a combination thereof reasonably required by the Executive Director to maintain the level of security as provided by the original guaranty. Following the Effective Date, Tenant shall have a continuing obligation to notify City in writing of any and all events that do or might constitute a material change in financial condition within the meaning of this Subsection 112.2.3.

112.2.4 Executive Director Authority to Modify. The Executive Director shall have the authority, but not the obligation, to unilaterally modify the foregoing conditions based on the facts of a particular case.

112.3 Procedure to Obtain City Consent to Transfer. If Tenant desires to undertake a Transfer, it may seek City's consent thereto. Tenant covenants that before entering into or permitting any Transfer, it shall provide to City written notice at least ninety (90) days before the proposed effective date of the Transfer. In any event, Tenant's written request to City for consent shall hereinafter be referred to as "Transfer Notice."

112.3.1 Transfer Notice. Tenant's Transfer Notice shall contain each of the following:

(a) Specific identification of the entity or entities with whom Tenant proposes to undertake the Transfer ("Transferee");

(b) Specific and detailed description of the Transferee's entity type, ownership (including identification of all parent and subsidiary entities), background/history, nature of the Transferee's business, Transferee's character and reputation and experience in the operations proposed;

(c) Specific and detailed description of the type of Transfer proposed (e.g., assignment, sublease, grant of control, etc.) and the rights proposed to be transferred, and the permissibility of the proposed Transfer under Applicable Laws or third-party consent concerning foreign investment and/or control of the Premises;

(d) Specific and detailed description of the operations proposed to be undertaken at the Premises by Tenant and Transferee if City consents to the Transfer which includes a breakdown of the responsibilities and duties of Tenant and Transferee;

(e) All of the terms of the proposed Transfer, including the total consideration payable by Transferee; the specific consideration (if any) payable by Transferee in connection with the Premises and/or uses under this Agreement if the proposed Transfer is part of an acquisition or purchase that involves assets outside this Agreement; the proposed use of the Premises; the effective date of the proposed Transfer; and a copy of all documentation concerning the proposed Transfer;

(f) The proposed form of a guaranty or guaranties providing greater or substantially the same protection to City as any guaranty in effect prior to or contemporaneous with the proposed Transfer;

(g) A business plan for the Transferee including specific estimates of revenue anticipated under each of the following categories: existing contracts, contracts under negotiation and other specified sources;

(h) A general description of any planned Alterations or improvements to the Premises;

(i) A description of the worth of the proposed Transferee including an audited financial statement;

(j) Any further information relevant to the proposed Transfer that City reasonably requests; and

(k) Written authorization in a form acceptable to City allowing City to inspect and review but not to copy, at times and locations reasonably selected by City, any books and records or other information of Tenant or Transferee (or third-parties acting for or on either of their behalfs) reasonably determined by City to be necessary for its assessment of Tenant's request for consent.

112.3.2 Limitations on City's Consent. If City consents to a Transfer, the following limits apply:

(a) City does not agree to waive or modify the terms and conditions of this Agreement;

(b) Such consent does not constitute either consent to any further or other Transfer by either Tenant or Transferee or a bar disqualifying submittal of additional Transfer Notices in accordance with the terms of this Agreement following such consent;

(c) If, following such consent, Tenant remains a party to this Agreement, Tenant shall remain liable under this Agreement and any guarantor shall remain liable under its guaranty;

(d) Such consent shall not transfer to the Transferee any option granted to the original Tenant by this Agreement unless such transfer is specifically consented to by City in writing;

(e) Tenant may enter into that Transfer in accordance with this Section 112 if: (a) the Transfer occurs within six (6) months after City's consent; (b) the Transfer, in the sole and absolute discretion of the Executive Director, is on substantially the same terms as specified in the Transfer Notice; and (c) Tenant delivers to City promptly after execution an original executed copy of all documentation pertaining to the Transfer in a form reasonably acceptable to City;

(f) If the Transfer occurs more than six (6) months after City's consent or, in the sole and absolute discretion of the Executive Director, the terms of the Transfer materially change from those in the Transfer Notice, Tenant shall submit a new Transfer Notice under this Section 113, requesting City's consent. A material change for purposes of this Section 113 is one where the terms would have entitled City to refuse to consent to the Transfer initially, or would cause, in the sole and absolute discretion of the Executive Director, the proposed Transfer to be more favorable to Transferee than the terms in the original Transfer Notice;

(g) Tenant and/or Transferee, upon City's written request, shall provide proof, in a form satisfactory in the sole reasonable discretion of the Risk Manager of City's Harbor Department, demonstrating that insurance of the type and limits required by Subsection 110.2 (Insurance) is and shall be in full effect at all times in or around the time period in which the proposed Transfer is anticipated to occur. If requested in writing by City, Transferee shall provide a guaranty agreement in a form acceptable to City obligating Transferee to pay any uninsured or underinsured loss on a claim that, in City's sole and absolute discretion, would have been covered by insurance fully compliant with Subsection 110.2;

(h) Transferee shall execute and deliver a written acceptance of Transfer in a form acceptable to City in which Transferee expressly assumes all of Tenant's obligations under the Agreement;

(i) Tenant acknowledges and agrees that a proposed Transfer or Assignment may require the approvals of third-parties not under the control of City in order to become effective and that failure to obtain such non-City approvals may prevent or invalidate the proposed Transfer or Assignment notwithstanding any City approval of same. Tenant hereby releases and discharges City from and against any and all rights, claims, demands, damages, liabilities, accounts, reckonings, liens, attorney's fees, costs, expenses, actions and causes of action of every kind and nature whatsoever, whether in contract, tort, at law or in equity, or otherwise, now known or unknown, suspected or unsuspected, whether intentional, negligent (including joint, sole, concurrent and gross negligence) or otherwise, and whether existing at common law, by statute or other legislative act, or by constitutional provision which exist as of the effective date of this Agreement or the date is such Transfer of Assignment that are based in whole or in part on, consist of, or which do or may arise out of, or which are or may be related to or in any way connected with the inability to obtain such non-City approvals.

112.4 Factors Germane to City Consent. In evaluating any Transfer Notice, it shall not be unreasonable for City to withhold or condition its consent to a Transfer based on the following factors, among others:

(a) The net worth, financial condition and creditworthiness of the Transferee and the existence of any guaranty provided by the Transferee's parent or related entity or entities;

(b) The character, experience and reputation of the Transferee (or its operator) in operating the business contemplated by the Transfer;

(c) Whether the Transfer will negatively impact the short-term or long-term development, land use or other plans of City's Harbor Department, and whether consent to such Transfer would violate any of the legal duties of City's Harbor Department, including duties owed to other tenants;

(d) Whether the proposed Transfer is consistent with the terms and conditions of this Agreement in existence when Tenant submitted the Transfer Notice and with the laws, rules and regulations applicable to the Premises and Tenant's use and occupancy thereof;

(e) Whether the information provided by Tenant in connection with Subsection 112.3.1 (Transfer Notice) justifies such consent;

(f) The Transferee's level of commitment and specific plans to invest to improve the Premises following approval of the proposed Transfer, if any;

(g) Whether there are uncured defaults including, without limitation, unpaid Rent and, if there are, whether the proposed Transferee agrees to cure, remedy or otherwise correct any default by Tenant existing at the time of the Transfer, in a manner satisfactory to the Board; and

(h) Whether the Transferee, its operator or any Affiliate of the Transferee or its operator is listed on any of the following lists maintained by the Officer of Foreign Assets Control of the U.S. Department of the Treasury, the Bureau of the Industry and Security of the U.S. Department of Commerce or their successors, or on any other list of Persons with which the City may not do business under Applicable Law: the Specially Designated Nationals List, the Denied Persons List, the Unverified List, the Entity List, and the Debarred List.

(i) And any other factors as determined by City in its sole and absolute discretion.

112.5 Additional Conditions for Subleases. If Tenant requests consent to a Transfer consisting of a sublease of all or a portion of the Premises, the following terms and conditions shall also apply:

(a) Notwithstanding Subsection 112.3 (Procedure to Obtain Consent to Transfer), Tenant may request consent for a sublease with less than ninety (90) days' notice.

(b) City reserves the right to recapture any portion of the Premises proposed by Tenant to be subleased (with appropriate amendments to this Agreement) and to undertake the transaction with the proposed Transferee directly;

(c) Tenant in no event shall be allowed to sublet more than twenty percent (20%) of the Premises to any one sublessee unless this Agreement expressly provides otherwise;

(d) Tenant shall owe to City as Additional Rent, one hundred percent (100%) of any amount collected from the sublessee as compensation that exceeds, on a pro rata basis, based on the preceding year's Rent, the compensation due City from Tenant under Section 4 (Rent);

(e) Tenant must provide City with a copy of the Sublease Agreement; and a copy of any notice of default or breach of the sublease; and

(f) No sublessee shall further Transfer or sublet all or any part of the Premises without City's prior written consent.

112.6 Assignments for Security Purposes. Tenant's request to assign this Agreement to secure financing of improvements on the Premises will require Board approval and will be considered on a case-by-case basis. Consent to Assignments for security purposes will not be granted unless Tenant and its lenders satisfy the following conditions, among others, which may be reasonably imposed by the Board:

(a) Monies borrowed will be used exclusively to construct improvements or alterations on the Premises.

(b) Monies borrowed must be in a fixed amount. New borrowings or refinancing require further Board approval.

(c) The collateral covered by the security agreement securing Tenant's loan shall cover only Tenant's leasehold interests and interest in improvements on the Premises, not the interests of City in improvements or land, and not any improvements or fixtures which, if removed, would leave the Premises untenantable. In this Subsection 112.6, "untenantable" means, the removal of improvements or fixtures which, in the City's sole and absolute discretion, would leave the Premises in a condition that prevents City from renting the Premises.

(d) Nothing in the instrument which creates the security interest in the lender shall amend, modify, or otherwise affect the rights of City under this Agreement or any guaranty.

(e) In the event the lender initiates any action to foreclose the interest of Tenant in this Agreement, the lender agrees to deliver to the Board in person or by registered mail a copy of any notice of default sent to Tenant and agrees, ten (10) calendar days in advance of any foreclosure sale, to give written notice to Board by registered mail. Such notices shall be addressed as follows:

Board of Harbor Commissioners
c/o Director of Real Estate Division
P.O. Box 151
San Pedro, CA 90733-0151

Such notice shall specify which of the below alternative courses of action the lender will take with respect to the Agreement and any guaranty. Any and all of the below stated alternatives are contingent upon the Board's approval in accordance with the conditions in subsection (f) below. Lender may:

(1) Assume as principal all of the obligations and duties arising on or after the foreclosure conveyance date under the Agreement; or

(2) Assume as principal all of the obligations and duties arising on or after the foreclosure conveyance date under the Agreement, and hire an operator, acceptable to the Executive Director, who shall operate the Premises pursuant to the Agreement; or

(3) Assume as principal all of the obligations and duties arising on or after the foreclosure conveyance date, and thereafter reassign the Agreement with the consent of Board. Notwithstanding any provision of this Agreement to the contrary, in the event the lender initiates any action to foreclose the interest of any subsequent assignee of the Agreement, the lender agrees to make the notifications and elections required herein.

The foregoing election by the lender shall be without prejudice to any rights the City may have with respect to Tenant's default of this Agreement; provided, however, that the City shall mail to both Tenant and lender a copy of any written notice of default in the performance of the terms and conditions of the Agreement, by registered mail, return receipt requested, addressed as follows:

(Name and Address of Tenant and lender is to be specified by Tenant. If no lender is specified, notice to Tenant alone is agreed to be sufficient.)

The lender shall have the option to cure such default within the time specified in such notice, provided that if such default is noncurable in nature, City shall have the right to immediately reclaim the Premises and lender shall have no further interest.

(f) Any lender proposal to Transfer its interest in this Agreement or interest therein or right or privilege thereunder requires the Board's consent. The Board may withhold its consent in its reasonable discretion if the Board determines that the proposed Transferee cannot meet all of the following conditions, and any other conditions that may be reasonably imposed by the Board:

(1) This Agreement shall be in full force and effect and no default shall exist or the lender shall agree in writing to cure all such defaults before the transfer.

(2) When requesting the Board's consent to such a Transfer, the lender shall demonstrate that: (a) the financial condition of the proposed Transferee is as sound as that of Tenant at the time this Agreement was initially entered into or as at the time of the proposed transfer - whichever provides the better financial security to the City; (b) the proposed Transferee has the requisite experience and reputation or has retained an operator with the requisite experience and reputation to operate the Premises; and (c) the proposed Transfer will not unfavorably affect the revenues of the City, employment or the services available

to the maritime community; and (d) the proposed Transferee, its operator or any Affiliate of the proposed Transferee or its operator is not listed on any of the following lists maintained by the Officer of Foreign Assets Control of the U.S. Department of the Treasury, the Bureau of the Industry and Security of the U.S. Department of Commerce or their successors, or on any other list of Persons with which the City may not do business under Applicable Law: the Specially Designated Nationals List, the Denied Persons List, the Unverified List, the Entity List, and the Debarred List .

(3) Even if the Board consents to such a proposed Transfer, the Board may first require that the Transferee and the Board agree on a new compensation for the Premises transferred. If the Board modifies the compensation, it shall take into account the then existing Board policy for setting compensation and the prevailing market conditions.

(g) The form of all instruments and documents affecting the City's interests in the Premises shall be acceptable to Executive Director and City Attorney of City in their sole and absolute discretion.

(h) The Board shall have the authority, but not the obligation, to modify any of the foregoing conditions based on the facts of a particular case.

112.7 Assignment Fee.

If City approves any Transfer as herein provided, Tenant shall pay to City, as Additional Rent, twenty percent (20%) of any monetary or other economic consideration received by Tenant as a result of the Transfer over and above the amount of Tenant's rental and other payments due City pursuant to this Agreement (or applicable share, if a sublease). The agreement evidencing such Transfer, as the case may be, after approval by City, shall not be amended without City's prior written consent, and, at City's option, shall contain a provision directing such transferee to pay the rent and other sums due thereunder directly to City upon receiving written notice from City that Tenant is in Default under this Agreement following applicable notice and cure periods with respect to the payment of Rent. In the event that, notwithstanding the giving of such notice, Tenant collects any rent or other sums from such transferee, then Tenant shall hold such sums in trust for the benefit of City and shall immediately forward the same to City. City's collection of such rent and other sums shall not constitute an acceptance by City of attornment by such transferee.

112.8 Charter and Administrative Code. Tenant acknowledges that this Agreement is subject to the Charter of City and the Administrative Code of City and that approval of a Transfer may require action by several separate entities, including but not limited to the Los Angeles City Council.

112.9 Tenant Remedies. If City wrongfully denies or conditions its consent, Tenant may seek only declaratory and/or injunctive relief. Tenant specifically waives any damage claims against City in connection with the withholding or conditioning of consent.

112.10 Indemnity in Favor of City; Tenant's Rights. In addition to and not as a substitute for the indemnities Tenant provides to City pursuant to Subsection 110.1 (Indemnity), Tenant shall indemnify, defend and hold harmless City and any and all of its boards, officers, agents, or employees from and against any and all claims and/or causes of action of any third-party (including but not limited to Transferee) arising out of or related to a proposed Transfer except for claims arising from the sole gross negligence or willful misconduct of City in withholding its consent in which case Tenant's sole remedy shall be entitled only to seek specific performance.

112.11 Rent or Performance. City, in its sole discretion, may accept Rent or performance of Tenant's obligations under this Agreement from any person other than Tenant pending approval or disapproval of a Transfer. City's exercise of discretion to accept Rent or performance shall be reflected in writing.

112.12 Written Certification. If requested in writing by the Executive Director, Tenant shall, within ten (10) days of its receipt of such written request, certify under penalty of perjury under California Law whether it has or has not undertaken a purported Transfer.

Section 113. Records, Reports and City's Right of Inspection.

113.1 Operations. Tenant shall keep full and accurate books, records and accounts relating to its operations on the Premises. City shall have the right, through its representatives, at all reasonable times and on reasonable notice, to inspect such books, records and accounts in order to verify the accuracy of the sums due, owing and paid to City hereunder. Tenant agrees that such books, records and accounts shall be made available to City at Tenant's offices in the City of Los Angeles. City shall protect, to the extent permitted by law, the confidentiality of any such books, records and/or accounts so inspected. Tenant shall provide to Harbor Department copies of any agreements with Invitees.

113.2 City Right of Inspection. City's authorized representatives shall have access to the Premises (a) with 24-hour notice at any and all reasonable times to determine whether or not Tenant is complying with the terms and conditions of this Agreement, and (b) at any and all times, with or without notice, for fire, and police/ or homeland security purposes, to investigate any incidents involving personal injury or property damage, or for any other purpose incidental to the rights and/or duties of City. The right of inspection hereby reserved to City shall impose no obligation on City to make inspections to ascertain the condition of the Premises, and shall impose no liability upon City for failure to make such inspection. Tenant shall provide personnel to accompany City's representatives on periodic inspections of the Premises to determine Tenant's compliance with this Agreement.

113.3 ACTA. (Only applicable if Permitted Uses includes a rail related use) Tenant shall provide to City, the Alameda Transportation Corridor Authority ("ACTA"), or their agents, any information reasonably required to compile accurate statistical information related to the Alameda Corridor, and to enable ACTA to generate timely and accurate invoices for Alameda Corridor use fees and container charges payable by users of the Alameda Corridor. Tenant shall use its best efforts to provide such non-confidential and non-privileged information in the format requested.

113.4 Report of Accidents, Casualties or Crimes. Tenant shall give the Executive Director notice in case of accidents, crimes, fires or other adverse incidents in the Premise promptly after Tenant is aware of any such event.

Section 114. Condemnation.

114.1 Generally. The Parties agree that if during the Term there is any taking of all or any part of the Premises by Condemnation, the rights and obligations of the Parties shall be determined pursuant to this Section 114.

114.2 Total Taking. Tenant may elect to treat as a Partial Taking any Taking that would otherwise qualify as a Total Taking. If a Total Taking of the Premises shall occur, and Tenant does not elect by written notice to City, within sixty (60) days thereafter, to treat the same as a Partial Taking, then this Agreement shall terminate as of the effective date of such Total Taking, and the Rent shall be apportioned accordingly. The proceeds of the Total Taking shall be allocated between City and Tenant in accordance with their respective interests.

114.3 Partial Taking.

114.3.1 Effect on Agreement; Award. If a Partial Taking shall occur, then any award or awards shall be applied first to repair, rebuilding or restoration of any remaining part of the Improvements not so taken. Tenant shall perform such repair, rebuilding or restoration in accordance with the applicable requirements of this Agreement. The balance of any such award or awards remaining after the repair, rebuilding or restoration shall be distributed to City and Tenant as if they were proceeds of a Total Taking affecting only a portion of the Premises taken. If the Partial Talking impacts the usable area of the Premises, the City shall abate or reduce the Rent payable hereunder as a result of such Partial Taking. No other sums payable under the Agreement shall be abated or reduced as a result of any Partial Taking.

114.3.2 Improvements. Should Tenant terminate this Agreement pursuant to this Section 114, title to all improvements, additions, alterations constructed or installed by Tenant upon the Premises and which have not already vested in City shall thereupon vest in City.

114.3.3 Waiver of CCP §1265.130. Each Party waives the provisions of the California Code of Civil Procedure Section 1265.130 allowing either Party to petition the superior court to terminate this Agreement in the event of a Partial Taking of the Premises.

114.4 Temporary Taking. If a Temporary Taking shall occur with respect to use or occupancy of the Premises for a period greater than 365 days, then Tenant shall, at its option, be entitled to terminate this Agreement effective as of the commencement date of the Temporary Taking. If the Temporary Taking relates to a period of 365 days or less, or if Tenant does not elect within sixty (60) days after the 365th day of the Temporary Taking, to terminate this Agreement, then all proceeds of such Temporary Taking (to the extent attributable to periods within the Term) shall be paid to Tenant, and Tenant's obligations under this Agreement shall not be affected in any way.

114.5 Severance Damages. The entire award of compensation paid for any severance damages, whether paid for impairment of access, for land, buildings, and/or improvements shall be the property of City, regardless of whether any buildings or improvements so damaged are owned or were constructed by City or Tenant. However, should City determine that improvements are to be restored, that portion of the severance damages necessary to pay the cost of restoration shall be paid to Tenant accompanied by evidence that the sum requested has been paid for said restoration and is a proper item of such cost and used for such purpose.

114.6 Other Condemnation. In the event of any condemnation action not resulting in a Taking but creating a right to compensation, this Agreement shall continue in full force and effect without reduction or abatement of Rent, and the award or payment made in connection with such action shall be allocated between City and Lessee in accordance with their respective interests.

114.7 Settlement or Compromise. Neither City, in its Proprietary Capacity under this Agreement, nor Tenant shall settle or compromise any Taking award affecting the interests of the other Party without the consent by such other Party, such consent not to be unreasonably withheld. Each of City and Tenant shall be entitled to appear in all Taking proceedings affecting its respective interest, to participate in any settlement, arbitration or other proceeding involving such a Taking and to claim its Taking award under this Agreement.

114.8 Prompt Notice. If either Party becomes aware of any Taking or threatened or contemplated Taking, then such Party shall promptly give Notice thereof to the other Party.

114.9 Control of Funds after Partial Talking. In the event of a Partial Taking where Tenant is required to, or chooses to, repair, rebuild or restore the damaged improvements, the following provisions regarding control of funds shall apply:

114.9.1 Proceeds Less Than $1,000,000. All proceeds from any Partial Taking less than $1,000,000 shall be distributed to Tenant and shall be applied by Tenant in accordance with Subsection 114.3 (Partial Taking).

114.9.2 Proceeds Greater Than $1,000,000.

114.9.2.1 When Fund Control Mechanism in Leasehold Mortgage Governs. If any Leasehold Mortgage permitted by City and entered into by Tenant contains a fund control mechanism providing that all proceeds from any Partial Taking in excess of $1,000,000 shall be deposited with such Leasehold Mortgagee or a third party depository specified in such Leasehold Mortgage to be disbursed to repair, rebuild or restore the Premises, the mechanics for fund control set forth in such Leasehold Mortgage shall have priority over the corresponding mechanics for fund control set forth in Subsection 114.9.2.2, below.

114.9.2.2 When Fund Control Mechanism in This Agreement Governs. Subject to Subsection 114.9.2.1, above, if proceeds from any Partial Taking total in excess of $1,000,000, then upon request of City all such proceeds shall be deposited with the City to be disbursed to repair, rebuild or restore the Premises in accordance with the procedures set forth in Section 112 (Damage and Destruction to Improvements), and the balance, if any, of such proceeds shall be allocated between City and Tenant in accordance with their respective interests.

114.10 Waiver. The provisions of this Agreement governing Takings are intended to supersede the application of Chapter 10, Article 2 of the California Code of Civil Procedure and all similar Laws, to the extent inconsistent with this Agreement. Nothing in this Section 114 shall be construed to limit City's powers with respect to Takings in its Governmental Capacity.

Section 115. Marks.

115.1 City-Associated Name or Mark. A "City-Associated" name or mark, as used in this Agreement, shall mean any name or Mark that (i) contains, in whole or part, name(s) and/or mark(s) (including service marks, trademarks, names, titles, descriptions, slogans, insignias, emblems or logos) of the City of Los Angeles or any department, agency or commission thereof, including the "Port of Los Angeles®" and "America's Port®;" and (ii) imparts the color of authority of the City of Los Angeles; and/or (3) otherwise imparts association with or endorsement by the City of Los Angeles on any goods or services offered by Lessee under such name or mark.

115.2 City Approval of Lessee Name or Mark. City shall have the right of approval of names and marks coined or created by Tenant for use on the Premises to ensure that use of the Premises leased herein is consistent with that of a public venue leased by a governmental entity. City shall not approve names or marks that impart notions or contain elements that put the City

in a false light or that are racist, sexist, derogatory to any legally protected groups/class or unfitting for public facilities.

115.3 No Assignment or Transfer of City's Intellectual Property. Nothing in this Agreement shall be construed to transfer or assign to any party, signatory herein or not, any of the intellectual property rights of the City, including but not limited to trademark rights. Rights not expressly granted by City herein are reserved. Other than as approved by City, Tenant has no right to use any of the City-Associated Marks.

Section 116. Restoration and Surrender of Premises.

116.1 Tenant's Restoration Obligations. By the Expiration Date, or any sooner or later termination of this Agreement, Tenant shall quit and surrender possession of the Premises, and shall be obligated to, as directed by the Executive Director, in the Executive Director's sole and absolute discretion, either (i) return the Premises to City in good and usable condition, said condition to be consistent with a first class facility of similar age as repaired, maintained, or upgraded by Tenant, or any Assignor, or Affiliate of Tenant under this Agreement or any prior permit, or by City, or (ii) demolish all Improvements on the Premises and leave the Premises in a clean level and usable condition as set forth below, or (iii) demolish some of the Improvements on the Premises, as designated by City, and leave the area of the Premises where the Improvements were demolished in a clean level and usable condition as set forth below and the remainder of the Premises in good and usable condition as set forth above or (iv) pay the cost of restoration to City if City chooses to perform the work itself or have the work performed on its behalf. Additionally, in lieu of demolition, if the City determines that any of the improvements are historical, or eligible for listing as such, the City, in its sole discretion, may require Tenant to pay to City an amount equal to the estimated cost of demolition to be used by the City for the restoration or adaptive reuse of the historical structure or structures. If City terminates this Agreement due to Tenant's default, or if Tenant remains in possession of all or any portion of the Premises as a holdover from month to month per Section 3.3 (Holdover), Tenant is still obligated to restore the Premises as provided in this Section 117 or to pay the cost of restoration if City chooses to perform the work. As to water areas of, or adjacent to, the Premises, if any, Tenant shall remove all debris and sunken hulks from channels, slips, and water areas within, or fronting upon, Premises not solely caused by City. Tenant expressly waives the benefits of the "Wreck Act" (Act of March 3, 1899) 33 U.S.C. Section 401, *et seq.* and the Limitation of Liability Acts (March 3, 1851, c. 43, 9 Stat. 635) (June 26, 1884, c. 121, Sec. 18, 23 Stat. 57) 46 U.S.C. 189 (Feb. 13, 1893, c. 105, 27 Stat. 445) 46 U.S.C. Sec. 190-196, and any amendments to these Acts, if it is entitled to claim the benefits of such Acts.

116.1.1 Environmental Restoration Requirements. In addition to and not as a substitute for Tenant's compliance with Subsection 116.1., above, Tenant, at its sole cost and expense, shall restore the Premises (including the soil, groundwater, and sediment) such that, on the Expiration Date, or earlier or later termination date, the Premises shall be returned to City:

(a) Free of Term Contamination and in at least as good of a condition as the condition depicted in the Baseline Report, if there is a Baseline Report, and free of all contamination if there is no Baseline Report. As between City and Tenant, Tenant shall bear sole responsibility for Term Contamination and any costs related thereto;

(b) Free of any encumbrances, including but not limited to deed or land use restrictions, as a result of any Term Release and/or any liens (UCC, federal or state tax or otherwise) on the Premises, or on fixtures or equipment, or personal property left on the Premises; and

(c) Free of any and all violations and/or orders of government agencies and/or consent agreements or similar voluntary settlements with government agencies involving contamination at the site.

116.2 Restoration Procedure. Tenant, at its sole cost and expense, shall initiate and complete the procedures set forth below in Subsections 116.2.1 through 116.2.3, and comply with any other conditions reasonably imposed by the Executive Director for the restoration of the Premises. Provided that Tenant discharges its obligations under this Subsection 116.2 expeditiously and in good faith, City shall reasonably endeavor to ensure that the requirement to discharge its obligations disturbs, as little as reasonably possible, Tenant's undertaking of the Permitted Uses during the Term of this Agreement. The Executive Director may alter or delete any of the procedures set forth below at the Executive Director's sole and absolute discretion.

116.2.1 Site Vacation Plan. When requested to do so in writing by the Executive Director, Tenant shall submit to City a written plan hereinafter referred to as the "Site Vacation Plan." The Executive Director's written request shall state which, if any, of the Improvements or Structures on the Premises the City does or does not want Tenant to remove as part of the restoration of the Premises. The sufficiency of the Site Vacation Plan is subject to City's reasonable approval. The Site Vacation Plan shall comply with the then existing Harbor Department procedures for Restoration.

116.2.2 Permits for Restoration. Tenant shall obtain, at is sole cost and expense, all permits required for the completion of its restoration obligations.

116.2.3 Adequacy of Restoration. Subject to orders or directives issued by any Governmental Agency with jurisdiction which orders or directives shall take precedence over this Subsection 116.2.3, the adequacy of Tenant's execution of the Restoration Obligations shall be within the reasonable discretion of the Executive Director. Tenant shall notify the Executive Director in writing when it believes it has completed all work contemplated by the Site Vacation Plan. Tenant shall submit proof of compliance and/or satisfaction of all orders, directives or voluntary agreements or settlements with any Governmental Agency with jurisdiction. The Executive Director shall determine the adequacy of the restoration using the Executive's Director reasonable discretion.

116.3 Restoration Indemnity. In addition to, and not as a substitute for any remedies provided by this Agreement or at law or equity, Tenant shall defend, indemnify and hold harmless City from any and all claims and/or causes of action brought against City from all, damages, liabilities, judgments, expenses, penalties, loss of rents, and attorneys' fees and costs and consultants' fees that arise out of or are related to or involving:

(a) Claims brought by holders of liens on the Premises, Structures, and/or on fixtures and/or equipment or property left on the Premises following the Expiration Date; and

(b) Claims, causes of action, Orders or enforcement actions pending against or in connection with the Premises, the Permitted Uses, and/or this Agreement; and

(c) The cleanup of any Contamination including, but not limited to, the cost of investigation, removal, remediation, restoration, and/or abatement.

This restoration indemnity is intended to and shall survive the expiration or earlier or later termination of this Agreement.

116.4 No Relocation Assistance. Nothing contained in this Agreement shall create any right in Tenant or any sublessees of Tenant for relocation assistance or payment from City upon expiration or termination of this Agreement (whether by lapse of time, default, or any other reason). Tenant acknowledges and agrees that it shall not be entitled to any relocation assistance or payment pursuant to the provisions of any state or federal law, including Title 1, Division 7, Chapter 16 of the California Government Code (Sections 7260, *et seq.*) with respect to any relocation of its business or activities upon the expiration of the term of this Agreement or upon its earlier termination or upon the termination of any holdover, regardless of whether any such termination is by City, Tenant's default, operation of law, or any other reason.

116.5 Failure to Restore. If City has directed Tenant to demolish or restore some or all of the improvements on the Premises, or otherwise restore the Premises, and Tenant has failed to do so, or failed to do so to the level required by this Agreement, on or before the earlier to occur of the date of the termination of this Agreement or the Expiration Date, City shall have the right, but not the obligation, to remove and/or demolish the same at Tenant's cost. In that event, Tenant agrees to pay to City, upon demand, City's Costs of any such removal, demolition, or restoration and further agrees that such City's Costs shall be deemed Additional Rent.

116.6 Rent During Restoration. Tenant shall complete restoration of the Premises before the Expiration Date, or any sooner or later termination of this Agreement, as provided in this Agreement and under Applicable Laws, including but not limited to the clean-up of any Contamination in, on or about the Premises. If, for any reason, such restoration is not completed before the Expiration Date, or any sooner or later termination of this Agreement, then Tenant is obligated to pay City Rent during such restoration period, which shall be deemed Additional Rent,

in an amount equal to one hundred fifty percent (150%) of the then fair market rental value of the Premises, as determined by Executive Director in his or her reasonable discretion, and the Harbor Department's then established rate of return as determined by City; however, said compensation amount shall not be less than the Rent paid by Tenant at the time of the Expiration Date, or as of the time of any sooner or later termination of this Agreement.

116.7 Restoration Security. In addition to any other requirement to provide security under Agreement, Tenant also agrees to provide City a cash deposit or irrevocable letter of credit in the name of City to assure restoration of the premises in accordance with the terms of this Agreement. The restoration security required herein shall be in a form acceptable to the City Attorney and the amounts shall be determined in the sole discretion of Executive Director. No interest is payable by City on deposits if the deposits are subsequently refunded.

Section 117. Miscellaneous.

117.1 Titles and Captions. Unless otherwise indicated, references in this Agreement to sections, subsections, paragraphs, clauses, exhibits and schedules are to the same contained in or attached to this Agreement. Additionally, the Parties have inserted the section titles in this Agreement only as a matter of convenience and for reference, and the section titles in no way define, limit, extend or describe the scope of this Agreement or the intent of the Parties in including any particular provision in this Agreement. Unless otherwise specified, references to Section or Subsection are to sections and subsections of this Agreement.

117.2 Exhibits and Attachments. All exhibits and attachments to which reference is made in this Agreement are deemed incorporated in this Agreement, whether or not actually attached. References to sections are to sections of this Agreement unless stated otherwise.

117.3 Construction of Agreement. This Agreement shall not be construed against the Party preparing the same, shall be construed without regard to the identity of the person who drafted such, and shall be construed as if all Parties had jointly prepared this Agreement, and it shall be deemed their joint work product; each and every provision of this Agreement shall be construed as though all of the Parties hereto participated equally in the drafting hereof; and any uncertainty or ambiguity shall not be interpreted against any one Party. As a result of the foregoing, any rule of construction that a document is to be construed against the drafting Party shall not be applicable.

117.4 Integrated Agreement; Amendments. This Agreement and all exhibits referred to in this Agreement constitute the final complete and exclusive statement of the terms of the agreement between City and Tenant pertaining to Tenant's use and occupancy of the Premises and, subject to the provisions of Subsection 117.23 (Prior Permits), supersedes all prior and contemporaneous understandings or agreements of the Parties, and cancels any and all previous negotiations, arrangements, representations, agreements and understandings, if any, between the Parties related to the subject matter of this Agreement. There are no oral agreements that affect any of the terms of this Agreement. Neither Party has been induced to enter into this

Agreement by, and neither Party is relying on, any representation or warranty outside those expressly set forth in this Agreement.

117.5 Modification in Writing. This Agreement may be modified only by written Agreement of all Parties. Any such modifications are subject to all applicable approval processes set forth in City's Charter, City's Administrative Code, or Applicable Laws.

117.6 Waivers. A failure of any Party to this Agreement to enforce the Agreement upon a breach or default shall not waive the breach or default or any other breach or default. All waivers shall be in writing. The subsequent acceptance of Rent by Board shall not be deemed to be a waiver of any other breach by Tenant of any term, covenant or condition of this Agreement, other than the failure of Tenant to timely make the particular Rent payment so accepted, regardless of Board's knowledge of such other breach. No delay, failure or omission of either Party to execute any right, power, privilege or option arising from any default, nor subsequent acceptance of guarantee then or thereafter accrued, shall impair any such right, power, privilege, or option, or be construed to be a waiver of any such default or relinquishment thereof, or acquiescence therein, and no notice by either Party shall be required to restore or revive the time is of the essence provision hereof after waiver by the other Party or default in one or more instances. No option, right, power, remedy or privilege of either Party shall be construed as being exhausted or discharged by the exercise thereof in one or more instances. It is agreed that each and all of the rights, powers, options or remedies given to City by this Agreement are cumulative, and no one of them shall be exclusive of the other or exclusive of any remedies provided by law, in that the exercise of one right, power, option or remedy by City shall not impair its rights to any other right, power, option or remedy.

117.7 Joint and Several Obligations of Tenant. If more than one individual or entity comprises Tenant, the obligations imposed on each individual or entity that comprises Tenant under this Agreement shall be joint and several.

117.8 Time is of the Essence. Time shall be of the essence as to all dates and times of performance, and obligations set forth herein, whether or not a specific date is contained herein. If performance is required by the terms hereof on a Saturday, Sunday or legal holiday in California, the performance shall be made on the next business day.

117.9 Statements of Tenant as Applicant. This Agreement may be granted pursuant to an application filed by Tenant with Board. If the application or any of the attachments thereto contain any material misstatements of fact, Board may cancel this Agreement. Upon any such cancellation of the Agreement granted hereunder, Tenant shall quit and surrender the Premises as provided in Section 116 (Restoration and Surrender of Premises).

117.10 Governing Law; Dispute Resolution by Judicial Reference. This Agreement is made and entered into in the State of California and shall in all respects be construed, interpreted, enforced, and governed under and by the laws of the State of California, without reference to choice of law rules. Any dispute arising under this Agreement shall be resolved by

judicial reference pursuant to the provisions of Code of Civil Procedure § 638-645.1. The cost of the referee shall be borne equally by each Party. The referee shall be a retired judge or attorney with at least 10 years of experience in lease related matters and/or lease litigation, or any other individual that both Parties agree has the qualifications and experience necessary. The Parties shall agree upon the referee within thirty (30) days of the demand for judicial reference. In the absence of proof of grounds for objection to the appointed general referee pursuant to Code of Civil Procedure § 641, any Party brought into the judicial reference after the selection of the referee shall be deemed to have consented to such selection. In the event the Parties cannot agree on the selection of a referee, any Party may petition the Superior Court of Los Angeles County for the appointment of a qualified retired judge or attorney as a general referee. The general referee's decision shall be binding on the Parties as would a decision by a court. The decision shall be in writing, and shall contain written findings of fact, and, to the extent applicable, conclusions of law, and shall be reported to the court within twenty (20) days after the testimony is closed.

Each Party retains the same appeal rights of the referee's decision as if the decision were rendered by a trial court judge. The judicial reference shall be held in Los Angeles County, California. In the event of judicial reference under this Section 117.10, the Parties shall attempt to develop a mutually agreeable discovery plan taking into consideration the number and complexity of issues in the dispute. If the Parties cannot agree upon a discovery plan, any Party may request that the appointed referee order the discovery the party contends is necessary.

117.11 Severability. Should any part, term, condition or provision of this Agreement be declared or determined by any court of competent jurisdiction to be invalid, illegal or incapable of being enforced by any rule of law, public policy, or charter, the validity of the remaining parts, terms, conditions or provisions of this Agreement shall not be affected thereby, and such invalid, illegal or unenforceable part, term, condition or provision shall be treated as follows: (a) if such part, term, condition or provision is immaterial to this Agreement, then such part, term, condition or provision shall be deemed not to be a part of this Agreement; or (b) if such part, term, condition or provision is material to this Agreement, then the Parties shall revise the part, term, condition or provision so as to comply with the Applicable Law or public policy and to effect the original intent of the Parties as closely as possible.

117.12 Termination by Court. If any court having jurisdiction in the matter renders a final decision which prevents the performance by City of any of its obligations under this Agreement, then either Party may terminate this Agreement by written notice, and all rights and obligations hereunder (with the exception of any undischarged rights and obligations) shall thereupon terminate.

117.13 Waiver of Claims. Tenant hereby waives any claim against City and Board and its officers, agents, or employees for damages or loss caused by any suit or proceedings directly or indirectly challenging the validity of this Agreement, or any part thereof, or by any judgment or award in any suit or proceeding declaring this Agreement null, void or voidable or delaying the same or any part thereof from being carried out.

117.14 Conflict of Interest. The Parties to this Agreement have read and are aware of the provisions of Section 1090, *et seq.* and Section 87100, *et seq.* of the California Government Code relating to conflict of interest of public officers and employees, as well as the Conflict of Interest Code of City's Harbor Department. All Parties hereto agree that they are unaware of any financial or economic interest of any public officer or employee of City relating to this Agreement. Notwithstanding any other provision of this Agreement, it is further understood and agreed that if such a financial interest does exist at the inception of this Agreement, City may immediately terminate this Agreement by giving written notice thereof.

117.15 Extent of Water Frontage. In case this Agreement, or any part thereof or any improvements made hereunder, shall be assigned, transferred, leased or subleased and the control thereof be given or granted to any person, firm, or corporation, or limited liability company so that such person, firm or, corporation, or limited liability company shall then own, hold or control more than the length of water frontage permitted or authorized under Section 654(a) of the Charter of City, or if Tenant shall hold or control such water frontage without a four-fifths vote of the Board and a two-thirds vote of the City Council approving the control of such water frontage, then this Agreement and all rights hereunder shall thereupon and thereby be absolutely terminated, and any such attempted or purported assignment, transfer or sublease, or giving or granting of control to any person, firm or, corporation, or limited liability company, which will then own, hold or control more than such permitted or authorized length of water frontage, shall be void and ineffectual for any purpose whatsoever.

117.16 State Tidelands Act, Grants and Trusts; City Charter. This Agreement is entered into in furtherance of and as a benefit to the State Tidelands Grant and the trust created thereby. Therefore, this Agreement, the Premises and Tenant's use and occupancy thereof, is at all times subject to the limitations, conditions, restrictions and reservations contained in and prescribed by the Act of the Legislature of the State of California entitled "An Act Granting to the City of Los Angeles the Tidelands and Submerged Lands of the State Within the Boundaries of Said City," approved June 3, 1929 (1929 Cal. Stats. 1929, Ch. 651), as amended, ("Act"), and provisions of Article VI of the Charter of the City of Los Angeles ("Charter") relating to such lands. Tenant agrees that any interpretation of this Agreement and the terms contained herein must be consistent with such limitations, conditions, restrictions, and reservations of the Act and the Charter. Tenant further agrees that it shall not undertake any use of the Premises, even a Permitted Use, which is or will be inconsistent with such limitations, conditions, restrictions, and reservations.

117.17 Disclosure Laws. Tenant acknowledges that City is subject to laws, rules and/or regulations generally requiring it to disclose records upon request, which laws, rules and/or regulations include but are not limited to the California Public Records Act (California Government Code Sections 6250, *et seq.*) ("Disclosure Laws"). Tenant further acknowledges City's obligation and intent to comply with such Disclosure Laws in all respects. Notwithstanding the foregoing, in the event that City receives a request for disclosure of records in connection with this Agreement, which Tenant has designated in writing as confidential, City shall

immediately notify Tenant in writing, enclosing a copy of such request, at which point Tenant may take whatever steps deemed appropriate, including but not limited to seeking a protective or other order excusing disclosure from a court of competent jurisdiction. In the absence of such an order from a court of competent jurisdiction excusing City from its disclosure obligations, City shall undertake whatever action is necessary to comply with the requirements imposed by the applicable Disclosure Laws. In the event that any action is filed by Tenant and/or by any requester of information where Tenant elects to challenge all or any part of the requested disclosure, and City is named as a party to that action, Tenant shall defend and hold City and City's former, present and future boards, elected and appointed officials, employees, officers, directors, representatives, agents, departments, subsidiary and affiliated entities, assigns, insurers, attorneys, predecessors, successors, divisions, subdivisions and parents, and all persons or entities acting by and through, under, or in concert with any of the foregoing, harmless from any and all defense costs and judgments or settlements in any such action as well as all other losses and expenses arising out of or related to such action.

117.18 Visual Artists' Rights Act.

117.18.1 Generally. Tenant shall not install, or cause to be installed, any work of art subject to the Visual Artists' Rights Act of 1990 (as amended), 17 U.S.C. 106A, *et seq.*, or California Civil Code Section 980, *et seq.*, (hereinafter collectively "VARA") on or about the Premises without first obtaining a waiver in writing, of all rights under VARA, satisfactory to the Executive Director and approved as to form and legality by the City Attorney's Office, from the artist. Said waiver shall be in full compliance with VARA and shall name City as a party for which the waiver applies.

117.18.2 Prohibition. Any work of art installed, or caused to be installed, by Tenant without the prior written authorization of the Executive Director shall be deemed a trespass, removable by City, by and through its Executive Director, upon three (3) days written notice, all costs, expenses and liability therefor to be borne exclusively by Lessee.

117.18.3 Indemnity. Tenant, in addition to other obligations to indemnify and hold City harmless, as more specifically set forth in this Agreement, shall indemnify and hold harmless City from all liability resulting for Tenant's failure to obtain the artist's waiver of VARA and failure to comply with any portion of this Subsection 117.18.3.

117.18.4 Cumulative Remedy. The rights afforded the City under this Subsection 117.18 shall not replace any other rights afforded City in this Agreement or otherwise, but shall be considered in addition to all its other rights.

117.19 Supervision of Business Practices. The nature and manner of conducting any and all business activities on the Premises shall be subject to reasonable regulation by the Board. In the event such business is not conducted in a reasonable manner as determined by the Board, it may direct that corrective action be taken by Tenant or its sublessees to remedy such practices

and upon failure to comply therewith within thirty (30) days of Tenant receiving such written notice, the Board may declare this Agreement terminated.

117.20 Signs and Lighting. Tenant shall not erect or display, or permit to be erected or displayed, on the Premises, or upon works, buildings and improvements made by Tenant, any signs or advertising matter of any kind, including signs, without first obtaining the written consent of the Executive Director. If Tenant obtains consent, Tenant shall also comply with the requirements of Section 105 (Alterations of Premises by Tenant) prior to erecting or displaying any signs or advertising matter on the Premises. Tenant shall further post, erect, and maintain on the Premises such signs as the Executive Director may direct. All signs erected or displayed on the Premises shall comply with the regulations set forth in Section 14.4.1, *et seq.* of the Los Angeles Municipal Code in its current or successor form. Tenant acknowledges that the Premises may lack adequate lighting for any or all Permitted Uses and that Tenant is responsible for installing temporary or permanent lighting as it may deem necessary to perform any labor, or to protect any property stored or located on the Premises, or to otherwise use the Premises for any Permitted Uses. Tenant shall comply with the requirements of Section 105 of this Agreement prior to installing any lighting. Any lighting installed shall meet Illuminating Engineering Society / American National Standards Institute (IES/ANSI) standards.

117.21 Ownership of Improvements. During the Term of the Agreement, title to all structures, improvements, or facilities, constructed or installed by Tenant ("Tenant Improvements") and all alterations constructed or installed by Tenant on Tenant Improvements shall belong to Tenant, but shall revert to the City if the Executive Director elects to have any or all of such Tenant Improvements revert to the City. Upon termination of this Agreement, all Tenant Improvements or alterations, other than machines, equipment, trade fixtures, and similar installations of a type normally removed without structural damage to the Premises, shall become a part of the land upon which they are constructed, or of the building on which they are affixed, and title thereto shall thereupon vest in City unless, however, City requests Tenant to remove some or all of said improvements, in which case Tenant shall promptly remove such improvements at Tenant's sole cost and expense. In the event of removal of any improvements, Tenant shall comply with the restoration obligations of Section 110 (Indemnity and Insurance). Notwithstanding the foregoing, in the event that the Harbor Department ascertains a need to acquire Tenant owned assets prior to title to those assets vesting in City, straight-line depreciation shall be applied to determine the purchase price.

117.22 Promotion of Los Angeles Harbor Facilities. Tenant shall in good faith and with all reasonable diligence use its best efforts by suitable advertising and other means to promote the use of the Premises granted by this Agreement.

117.23 Prior Permits. To the extent that Tenant and/or its predecessors or Affiliates used or occupied the Premises pursuant to prior agreements, from and after the Effective Date of this Agreement, Tenant's use and occupancy of the Premises shall be governed by this Agreement; provided, however, that any provisions which survive termination or expiration of

such prior agreements by the terms of the prior agreement or operation of law shall continue in full force and effect unless specifically stated otherwise in Article 1 of this Agreement.

117.24 No Third Party Beneficiaries. Nothing in this Agreement shall be deemed to confer upon any Person (other than City, Tenant or Tenant's lender) any right to insist upon, or to enforce against City or Tenant, the performance or observance by either Party of its obligations under this Agreement.

117.25 Successors. This Agreement shall be binding upon and shall inure to the benefit of the successors and assigns of City and shall be binding upon and inure to the benefit of the successors and permitted assigns and sublessees of Tenant.

117.26 Proprietary Capacity. The capacity of City in this Agreement shall be as a grantor of the property rights set forth in this Agreement, only ("Proprietary Capacity"), and any obligations or restrictions imposed by this Agreement on City shall be limited to that capacity and shall not relate to, constitute a waiver of, supersede or otherwise limit or affect the governmental capacities of City, including enacting laws, inspecting structures, reviewing, and issuing permits, and all of the other legislative and administrative or enforcement functions of each pursuant to federal, State or local law ("Governmental Capacity"). Whenever not expressly otherwise stated, (a) City, when acting in its Proprietary Capacity, shall not unreasonably withhold its approvals to matters requiring its approval hereunder, (b) Tenant shall not unreasonably withhold its approval to matters requiring its approval hereunder, and (c) City, when acting in its Governmental Capacity, shall be permitted to utilize its sole discretion with respect to matters requiring its approval hereunder.

117.27 Executive Director Authority. Whenever this Agreement refers to an action to be taken by the Executive Director, to the extent permitted by Applicable Law, that action may be taken by the Executive Director or the Executive Director's designee.

117.28 City Approvals. Any approvals or consents required from or given by City under this Agreement shall be approvals of POLA acting as the landlord, and shall not relate to, constitute a waiver of, supersede or otherwise limit or affect the rights or prerogatives of the City of Los Angeles as a government, including the right to grant or deny any permits required for construction in the Demised Premises or maintenance of the Demised Premises and the right to enact, amend or repeal Legal Requirements, including those relating to zoning, land use, and building and safety. No approval or consent on behalf of City will be deemed binding upon City unless approved in writing as to form by the City Attorney. Any approvals or consents required from or given by City under this Agreement shall be approvals of the CEO within the legal authority of the CEO, subject to the approval of the Office of the City Attorney as to form; provided, however, if the approval or consent by City is in excess of the CEO's legal authority, then such matter shall be approved by the Board or the City Council, as applicable. Except as otherwise expressly set forth in this Agreement, with respect to any matter that is subject to the approval or consent of the CEO, the Board or the City Council, as applicable, such approval or

consent may be given or withheld in the CEO's, the Board's or the City Council's sole and absolute discretion.

117.29 Brokers. Tenant represents and warrants that no real estate broker or real estate agent was used by Tenant in connection with this transaction and that no real estate broker, real estate agent or any third party is due any compensation related to this transaction. Tenant shall indemnify, defend and hold City harmless for any claim of any compensation due to any real estate broker, real estate agent or any third party related to this transaction.

117.30 Civil Code Section 1938 Disclosure. Pursuant to Section 1938 of the California Civil Code, City hereby advises Tenant that as of the date of this Agreement the Premises have not undergone inspection by a Certified Access Specialist. Further, pursuant to Section 1938 of the California Civil Code, City notifies Tenant of the following: "A Certified Access Specialist (CASp) can inspect the Premises and determine whether the Premises comply with all of the applicable construction-related accessibility standards under state law. Although California state law does not require a CASp inspection of the Premises, the commercial property owner or lessor may not prohibit the lessee or tenant from obtaining a CASp inspection of the Premises for the occupancy or potential occupancy of the lessee or tenant, if requested by the lessee or tenant. The parties shall mutually agree on the arrangements for the time and manner of any such CASp inspection, the payment of the costs and fees for the CASp inspection and the cost of making any repairs necessary to correct violations of construction-related accessibility standards within the Premises." Therefore and notwithstanding anything to the contrary contained in this Agreement, City and Tenant agree that (i) Tenant may, at its option and at its sole cost, cause a CASp to inspect the Premises and determine whether the Premises complies with all of the applicable construction-related accessibility standards under California law, (ii) the parties shall mutually coordinate and reasonably approve of the timing of any such CASp inspection so that City may, at its option, have a representative present during such inspection, (iii) Tenant shall be solely responsible for the cost of any repairs necessary to correct violations of construction-related accessibility standards within the Premises, identified by any such CASp inspection, and (iv) any and all such alterations and repairs within the Premises to be performed by Tenant in accordance with Section 107 of this Agreement and if any alterations and repairs to other portions outside of the Premises are required as a result of Tenant's CASp inspection then Tenant shall reimburse City upon demand, as Additional Rent, for the cost to City of performing such alterations and repairs; provided, however, unless such repair or alterations relate solely to other alterations to the Premises which Tenant is obligated to, or elects to, remove upon the expiration or earlier termination of the Lease Term (in which case Tenant shall simultaneously also remove any CASp identified alterations and repairs), Tenant shall have no obligation to remove any repairs or alterations made pursuant to a CASp inspection under this Section 117.30, unless directed to do so by the Executive Director.

117.31 OFAC Compliance. Tenant hereby represents, warrants and covenants, that either (i) it is regulated by the SEC, FINRA or the Federal Reserve (a "**Regulated Entity**"), or is a wholly-owned subsidiary or wholly owned affiliate of a Regulated Entity or (ii) neither it nor any person or entity (a) that directly or indirectly controls it or (b) that has a direct or indirect

ownership interest in it of twenty-five percent (25%) or more or (c) for which it is acting as an agent in this transaction, either appears on any list of Specially Designated Nationals and Blocked Persons published by the Office of Foreign Assets Control of the U.S. Department of the Treasury or has been named by any Executive Order of the United States Treasury Department as a person with whom transactions are prohibited by law.

117.32 Asbestos Notification. Many buildings constructed during the 20th Century utilized asbestos-containing materials ("ACM"). ACM is also typically encountered in wrapped heating system insulation, structural fire-proofing, acoustical ceilings, vinyl flooring, roofing felts and other materials. Asbestos was regularly used in many other building and non-building products as well. In fact, asbestos fibers are generally present in urban air and water. When inhaled, asbestos fibers can cause certain diseases, including asbestosis, mesothelioma and lung cancer (and risks for smokers are dramatically compounded). According to experts, the health risks associated with asbestos arise when and if fibers become airborne and are inhaled, for example, as a result of maintenance or repairs conducted without proper controls. The United States Environmental Protection Agency has concluded, however, that "[t]he presence of asbestos in a building does not mean that the health of building occupants is endangered. If asbestos-containing material remains in good condition and is unlikely to be disturbed, exposure will be negligible." As a result, the applicable laws and regulations do not require wholesale removal of ACM; instead, any ACM should be maintained that are releasing or could release asbestos fibers into the air should be identified and responded to appropriately while other ACM should be maintained in good condition, with appropriate work practices followed when disturbance is unavoidable.

City hereby notifies Tenant that ACM may be present within or about the Premises:

WARNING: ENTERING THIS AREA CAN EXPOSE YOU
TO CHEMICALS KNOWN TO THE STATE OF CALIFORNIA
TO CAUSE CANCER, INCLUDING ASBESTOS,
FROM BUILDING MATERIALS.

Landlord has no special knowledge relating to ACM. Tenant must immediately notify Landlord of any ACM which is found or disturbed, and because any Tenant Alterations could disturb ACM or involve exposure to asbestos fibers, must obtain City's prior written approval before beginning any Tenant Alterations and must ensure that all personnel involved be properly trained and qualified to identify and handle any ACM. Tenant, and not Landlord, shall be solely liable for compliance with any notice(s) in or about the Premises concerning ACM which are required by applicable law or regulations. Upon Landlord's request, Tenant shall deliver to Landlord a copy of a signed acknowledgement from Tenant acknowledging receipt of notice of the potential presence of ACM.

117.33 Audits. City may, at its sole discretion and with reasonable notice to Tenant, require Tenant to provide access to all records and other information necessary to perform an audit of rental, fees, other charges paid and payable to City, and any required information for payments by City to Tenant, including but not limited to invoices and proof of payments related

to reimbursement for Tenant improvements and other Tenant-required investments. City shall have the right to access such records and information for five (5) years past the end of the fiscal year in which they were generated and up to five (5) years past the expiration or early termination of this Lease. Tenant shall retain all records and other information necessary to perform an audit as described above for a minimum of five (5) years.

[Signature page follows]

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement on the date to the left of their signatures.

THE CITY OF LOS ANGELES, by
Its' Board of Harbor Commissioners

Dated: _____, 20__

By: _____
EUGENE D. SEROKA
Executive Director

Attest: _____
AMBER M. KLESGES
Board Secretary

[TENANT]

Dated: _____, 20__

By: _____

_____
(Print/type Name and Title)

Attest: _____

_____
(Print/type Name and Title)

APPROVED AS TO FORM AND LEGALITY

_____, 20__
HYDEE FELDSTEIN SOTO, City Attorney
STEVEN Y. OTERA, General Counsel

By: _____
Assistant/Deputy

ATTACHMENT 1 – Glossary of Terms

"ACTA" means the Alameda Transportation Corridor Authority or its successor entity.

"Additional Rent" means the monetary sum, in U.S. Dollars, Tenant shall pay to City for its use and occupancy of the Premises above the Base Rent as set forth in Article 1, Section 4 of this Agreement.

"Adjusted Base Rent" means the adjustment to the Base Rent that occurs every five (5) years of the Term pursuant to Article 1, Section 4 of this Agreement.

"Affiliate" means, when used with reference to a specified person or entity, any person or entity that directly or indirectly controls, is controlled by or is under common control with the specified person or entity. A person or entity shall be regarded as in control of another entity if it owns or is under common ownership or directly or indirectly controls at least fifty (50%) of the voting stock or other equity interests of the other entity, or in the absence of ownership of at least fifty percent (50%) of the voting securities of an entity, if it possesses, directly or indirectly, the power to direct or cause the direction of the management and policies of such entity.

"Alteration" or **"Alterations"** means improvements, alterations, additions or changes to the Premises including, without limitation, the construction of works or improvements or the changing of the grade of the Premises, except as otherwise stated in this Agreement.

"Annual Adjustment Date" shall have the meaning set forth in Article 1, Subsection 4.3.1.

"Applicable Laws" means any and all federal, state, county or governmental agency laws, statutes, ordinances, standards, codes (including, without limitation, all building codes) rules, consent decrees, ordinances, resolution, orders, or requirements adopted or implemented under color of law, in effect at any point during the Term, pertaining to the use, occupancy or condition of the Premises and/or Tenant's operations and activities, including but not limited to its undertaking of the Permitted Uses.

"Assignment" means the transfer, or assignment of this Agreement, in whole or in part, in any manner including without limitation the involvement of Tenant or its assets in any transaction, or series of transactions (by way of merger, sale, acquisition, financing, transfer, leveraged buyout or otherwise) whether or not there is a formal assignment or hypothecation of this Agreement or Tenant's assets, which involvement results in a reduction of the net worth of Tenant (defined as the net worth of Tenant, excluding guarantors, established by generally accepted accounting principles) by an amount greater than twenty-five percent (25%) of such net worth as it was represented at the time of the execution of this Agreement, or at the time of the

most recent Transfer to which City has consented, or as it exists immediately prior to said transaction or transactions constituting such reduction, whichever was or is greater. For purposes of this definition, the term "by operation of law" includes but is not limited to: (1) the placement of all or substantially all of Tenant's assets in the hands of a receiver or trustee; or (2) a transfer by Tenant for the benefit of creditors; or (3) transfers resulting from the death or incapacity of any individual who is a Tenant of, or a general partner of, a Tenant.

"Assignor" means collectively any transferor or assignor of Tenant's interest in the Premises, or any portion thereof, including any and all entities that occupied the Premises prior to Tenant and actually or purportedly transferred or assigned its right of occupancy to Tenant either contractually or under operation of law, including any "Transfer" as defined in Article 2, Section 113, whether or not there was a written assignment or approval of the assignment by City.

"Baseline Condition" shall have the meaning set forth in Article 2, Subsection 104.2.

"Base Rent" means the monetary sum, in U.S. Dollars, Tenant shall pay to City for its use and occupancy of the Premises per Compensation Year, excluding Tariff Charges and other Additional Rent, as set forth in Article 1, Section 4 of this Agreement.

"Board" means the Board of Harbor Commissioners of the Harbor Department of the City of Los Angeles.

"Casualty" means damage or destruction of the improvements on the Premises.

"CEQA" means the California Environmental Quality Act, Sections 21000, *et seq.* of the Public Resources Code and the CEQA Guidelines set forth at 14 California Code of Regulations Sections 15000, *et seq.*

"Charter" or **"City Charter"** means the Charter of the City of Los Angeles as it may be amended from time to time.

"Chief Harbor Engineer" means the Chief Harbor Engineer, Engineering Division of the Harbor Department, or successor designations should that title be renamed or redesignated during the Term.

"City" means the City of Los Angeles, a municipal corporation.

"City Council" means the Council of the City of Los Angeles, the legislative body of the City pursuant to Section 20 of the Charter of the City of Los Angeles.

"City Costs" or **"City's Costs"** means the costs, determined in the City's sole reasonable discretion, for any work performed by or for City to comply with a Tenant obligation under this

Agreement including, without limitation, the cost of maintenance or repair or replacement of property neglected, damaged or destroyed, including direct and allocated costs for labor, materials, services, equipment usage, and other indirect or overhead expenses arising from or related to maintenance, repair or replacement work performed by or on behalf of City; for the processing of any approvals or consents required or requested by Tenant; for the cost of processing applications to improve the Tenant's Premises; and, for the cost of complying with any Governmental Agencies' orders which were the responsibility of Tenant.

"Compensation Year" means the twelve (12) month period from the Effective Date and every twelve month period thereafter.

"Condemnation" means the taking of property through acquisition or damage of all or part of the Premises by a Government Agency having the power of eminent domain.

"County" means the County of Los Angeles.

"CPI-U" means the Consumer Price Index for All Items, All Urban Consumers for the Los Angeles-Long Beach-Anaheim, California area, 1982-84=100 as published by the U.S. Department of Labor, Bureau of Labor Statistics, or a successor index selected by the Executive Director of the Harbor Department in the Executive Director' sole reasonable discretion.

"Effective Date" is the date specified in Article 1, Subsection 3.1 of this Agreement.

"Environmental Compliance Requirements" means the requirements identified in Exhibit "I" as set forth in Article 2, Subsection 104.3.1. Generally, this term encompasses the MMRP, Lease Measures, and any other environmental compliance and/or reporting requirements related to Tenant's environmental obligations set forth in Article 2, Section 104 of this Agreement.

"Environmentally Regulated Material" means any material, pollutant, hazardous or toxic substance, material, or waste at any concentration, that is or becomes regulated by the United States, the State of California, or any local or governmental authority having jurisdiction over the Premises and/or Tenant's undertaking of the Permitted Uses. **"Executive Director"** means the Harbor Department's Executive Director referred to in the Charter of the City of Los Angeles and any other person authorized by the Board to act for the Executive Director or the Board or the designee of the Executive Director.

"Expiration Date" is the date set forth in Article 1, Subsection 3.2 of this Agreement.

"Fair Market Rental" means the most probable rent that a property should bring in a competitive market reflecting all conditions and restrictions of the lease agreement, including permitted uses, use restrictions and tenant improvements.

"Five-Year Adjusted Period" means each five (5) year period of the Term of this Agreement that is subject to rental adjustment pursuant to Article 1, Section 4, of this Agreement.

"**Force Majeure**" shall have the meaning set forth in Article 2, Section 109 of this Agreement.

"Governmental Agency" or **"Governmental Agencies"** means any and all federal, state, regional, county, municipal, and local governmental and quasi-governmental bodies and authorities (including the United States of America, the State of California, the City, the County of Los Angeles, and any political subdivision, public corporation, district or other political or public entity), departments or joint power authorities thereof having or exercising jurisdiction over the parties, the Premises, or such portions thereof as the context indicates or courts.

"Governmental Capacity" means City acting in its authorized capacity as the City of Los Angeles, a municipal corporation, as set forth in Article 2, Subsection 117.26.

"Harbor Department" or **"Department"** means the Harbor Department of the City of Los Angeles.

"Harbor District" is as defined in Section 651(a) of City's Charter or in any successor provision of City's Charter.

"Harbor Engineer" means the Chief Harbor Engineer of the Harbor Department of the City of Los Angeles or the Harbor Engineer's designee.

"Improvement" means, unless otherwise specified, building or buildings, but may be any permanent structure or other development such as, but not limited to, a street or utilities.

"Market Rent" means the most probable rent that a property should bring in a competitive and open market reflecting all conditions and restrictions of the lease agreement, including permitted uses, use restrictions, expense obligations, term, concessions, renewal and purchase options, and tenant improvements.

"Major Casualty" means any casualty, whether covered by insurance or not, whose repair would exceed ten percent (10%) of the replacement cost of the damaged or destroyed improvements.

"Minor Casualty" means any casualty, whether covered by insurance or not, which is not a Major Casualty.

"Mitigation Monitoring and Reporting Program" or "MMRP" means the Mitigation Monitoring and Reporting and Program described in Exhibit "I," herein.

"Partial Taking" means the Condemnation of all or a portion of the Premises that does not substantially impair Tenant's use of the Premises for the Permitted Uses.

"Person" means individuals, partnerships, firms, associations, corporations, limited liability companies, trusts, and any other form of governmental or business entity, and the singular shall include the plural.

"Proprietary Capacity" is as defined in Article 2, Subsection 117.26, of this Agreement.

"Rent" means the combined Base Rent and Additional Rent due from Tenant to City for the use and occupancy of the Premises.

"Severance Damages" means the compensation due to a property owner for the decrease in value of the remaining property where the Condemnation is for a portion of a larger property whose value has been diminished as a result of severance of the condemned property from the larger property.

"Site Vacation Plan" is as defined in Article 2, Subsection 116.2.1 of this Agreement.

"State Tidelands Act" means the Act of the Legislature of the State of California entitled "An Act Granting to the City of Los Angeles the Tidelands and Submerged Lands of the State Within the Boundaries of Said City" (Stats. 1929, Ch. 651) as amended, and as it may be amended from time to time.

"Taking" means the acquisition through condemnation, inverse condemnation, or agreement in lieu of condemnation, of the Premises or any part thereof.

"Tariff" means Tariff No. 4 of City of Los Angeles' Harbor Department as it may be amended from time to time.

"Tariff Charges" means all charges due and owing by Tenant under the Tariff on account of Tenant's use and occupancy of the Premises.

"Tax" or **"Taxes"** means the aggregate of any federal, state or local or foreign income, gross receipts, license, payroll, employment, excise, severance, stamp, occupation, business, premium, windfall profits, environmental, customs duties, permit fees, capital stock, franchise, profits, withholding, social security (or similar), unemployment, disability, goods and services, water, school, real property, possessory interest, personal property, sales, use, transfer, registration, value added, multi-staged, alternative or add-on minimum, special, estimated or other tax, levy, impost, stamp tax, duty, fee, withholding or similar imposition of any kind whatsoever payable, levied, imposed, collected, withheld or assessed at any time, including any interest, penalty or addition thereto, whether disputed or note, including in each case utility rates or rents, upon, concerning or applicable to the Premises, any fixtures, machinery, and equipment installed or maintained on the Premises, the improvements, and the use and operation of the Premises by any Governmental Authority.

"Temporary Taking" means the Condemnation of all or a portion of the Premises for a specified period of time.

"Tenant Improvements" means those improvements on the Premises which are built by the Tenant and whose ownership has not vested in City.

"Tenant's use" and **"Tenant's use and occupancy"** means, unless otherwise stated or evident from the context in which the term is used, the use of the Premises by Tenant, its employees, contractors, subcontractors, licensees, invitees, suppliers or anyone else present at the Premises pursuant to Tenant's invitation or permission.

"Term" means the term of this Agreement, which shall commence on the Effective Date and end on the Expiration Date or earlier termination of this Agreement.

"Term Contamination" means all contamination of improvements, adjacent harbor waters, soil, sediment, groundwater or air of the Premises or the adjacent premises (including soil, sediment, groundwater or air of those adjacent premises) resulting from a spill, discharge or any other type of release of Environmentally Regulated Material that occurs on the Premises during the term of this Agreement or any holdover, whether caused by Tenant or a third-party, including any Assignor (other than invitees under a temporary assignment pursuant to Subsection 102.4 (Temporary Assignments) or third-parties whose access to the Premises has been requested by City pursuant to Subsection 102.2 (Reservations), that contaminates or threatens to contaminate improvements, adjacent harbor waters, soil, sediment, groundwater or air of the Premises or of adjacent premises (including soil, sediment, groundwater or air of those adjacent premises). Term Contamination shall also include all contamination that is considered a nuisance under Applicable Law.

"Tidelands" means the land between the ordinary high tide and the mean low tide.

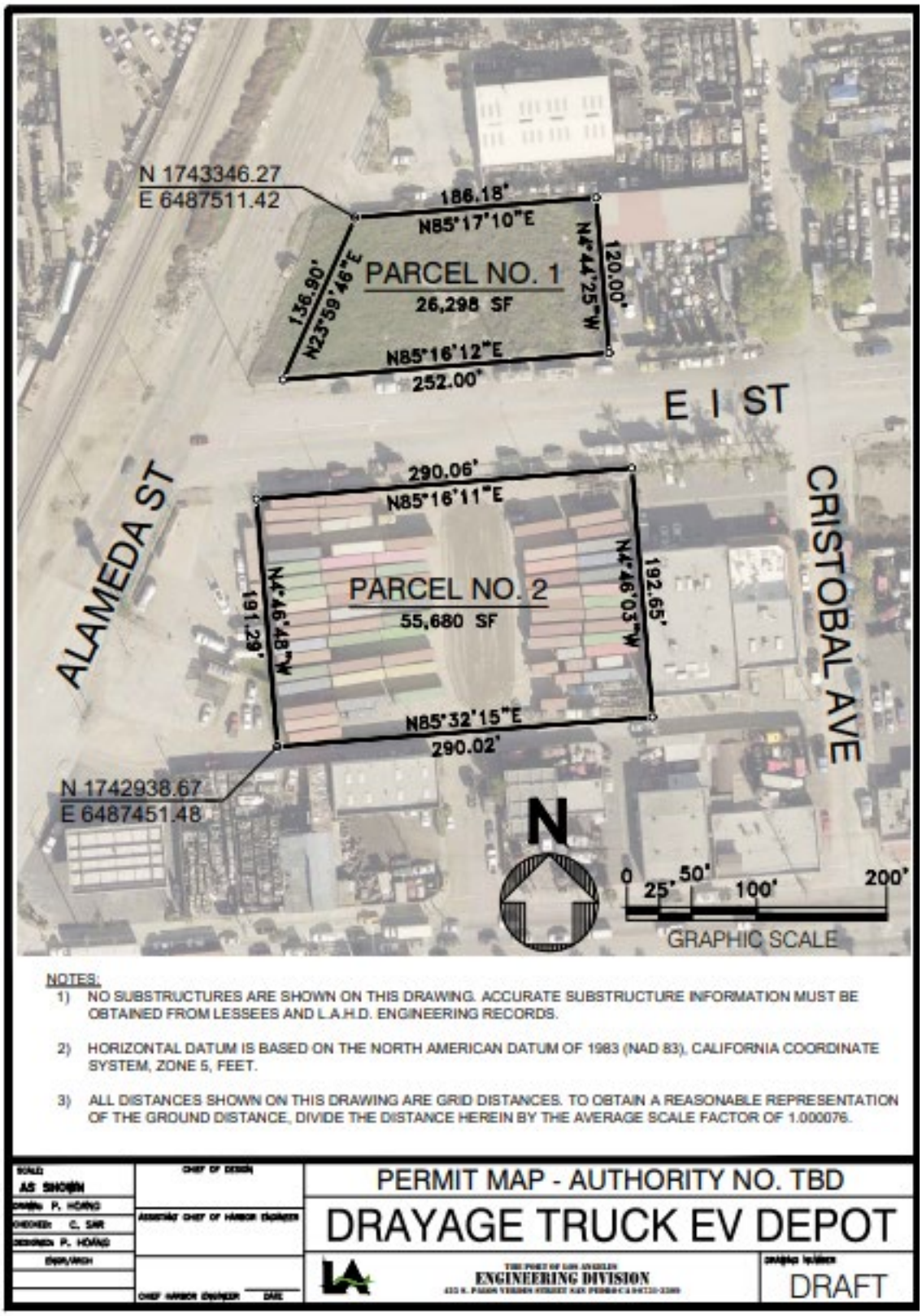
"Total Taking" means the Condemnation of all or a substantial portion of the Premises which renders the Premises unsuitable for the Permitted Uses.

"Transfer" means the transfer, assignment or subletting of the Premises as fully defined in Article 2, Section 113 of this Agreement.

"Transferee" means the person, entity or entities with whom Tenant proposes to undertake a Transfer.

"Transfer Notice" means the written notice required to be submitted by Tenant as set forth in Article 2, Subsection 112.3.1 of this Agreement.

EXHIBIT A – REAL PROPERTY



NOTES:

1) NO SUBSTRUCTURES ARE SHOWN ON THIS DRAWING. ACCURATE SUBSTRUCTURE INFORMATION MUST BE OBTAINED FROM LESSEES AND L.A.H.D. ENGINEERING RECORDS.

2) HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83), CALIFORNIA COORDINATE SYSTEM, ZONE 5, FEET.

3) ALL DISTANCES SHOWN ON THIS DRAWING ARE GRID DISTANCES. TO OBTAIN A REASONABLE REPRESENTATION OF THE GROUND DISTANCE, DIVIDE THE DISTANCE HEREIN BY THE AVERAGE SCALE FACTOR OF 1.000076.

SCALE: AS SHOWN DRAWN: P. HOANG CHECKED: C. SAR DESIGNED: P. HOANG DWG/ARCH	CHIEF OF DESIGN ASSISTANT CHIEF OF HARBOR ENGINEER CHIEF HARBOR ENGINEER DATE	PERMIT MAP - AUTHORITY NO. TBD DRAYAGE TRUCK EV DEPOT THE PORT OF LOS ANGELES ENGINEERING DIVISION DRAWING NUMBER DRAFT

EXHIBIT B – IMPROVEMENTS

No City Owned Improvements

EXHIBIT C – APPRAISER QUALIFICATIONS

Any appraisals that provide opinions of market value shall be performed by an appraiser whose business is located in Los Angeles or Orange Counties and hold a Certified General Appraiser classification within the State of California obtained through the qualification procedures set forth by the California Office of Real Estate Appraisers (OREA) and be a member in good standing with the Appraisal Institute and hold the designation of MAI. A copy of all licenses and certifications shall be submitted prior to commencement of work.

Any appraiser selected to perform an appraisal of Harbor Department related properties (total property, land and/or improvements) shall evidence have working knowledge of port related properties that is appropriate for the work being performed, as well as have geographic market knowledge of the Los Angeles County area, knowledge of the entire Southern California real estate market is preferred.

EXHIBIT C-1 – MARKET RENT SCOPE OF WORK

No Additional Supplemental Instructions

EXHIBIT D – LIMITATIONS ON USE

Load Limits. City warrants and represents that wharfs and paving on the Premises will support the load limits, if any, specified in Exhibit "B." Tenant shall allow no loading in excess of such limits without the prior written consent of the Harbor Department, which consent may be provided by a Harbor Engineer's Permit or a Heavy Lift Permit. Upon receipt of a notice from City that the load limits on Exhibit "B" have been exceeded, Tenant immediately shall take all appropriate steps to correct such condition and, irrespective of such notice, shall, as between City and Tenant, be solely responsible for any cost, expense, or damage resulting from exceeding the load limits.

Wilmington Truck Route. City and Tenant acknowledge that Tenant does not directly control the trucks serving the Premises. However, Tenant shall make its best efforts to notify truck drivers, truck brokers and trucking companies that trucks serving the Premises must confine their route to the designated Wilmington Truck Route ("Wilmington Truck Route") as depicted on the map attached hereto as Exhibit "E." The Wilmington Truck Route may be modified from time to time at the sole and absolute discretion of the Executive Director. The Harbor Department shall provide Tenant with notice of any modifications to the Wilmington Truck Route.

Pipelines. Tenant shall maintain on the Premises as-built drawings that identify the precise position of any pipelines, utilities or improvements of any type Tenant places on the Premises, whether placed above or below ground, if any. Upon twenty-four (24) hours' written notice by the Executive Director, Tenant shall undertake at its sole cost and expense whatever measures are reasonably necessary, including subsurface exploration for any pipeline or any other substructure under Tenant's control or servicing Tenant's operation within the Premises granted herein, to precisely locate the position of such items if City considers such as-built drawings insufficient to locate such items. Tenant agrees any work necessary to locate such items or any damage that may result from the location being incorrectly described, whether incurred by Tenant or City, shall be borne exclusively by Tenant. Exploration and preparation of all documentation recording the location of lines or structures shall be completed within the time specified in said notice. The subsurface exploration shall verify the vertical as well as horizontal location of all pipelines and substructures. Documentation reflecting the results of said exploration shall be filed with the Harbor Engineer.

As to locating and location, if Tenant neglects, fails or refuses within the time specified in said notice to begin or fails to prosecute diligently to complete the work of locating any pipeline or any other substructure under Tenant's control or servicing Tenant's operation within the Premises , City shall have the right to enter onto the Premises and perform the work designated in the notice. All subsurface exploration required by the provisions contained herein whether

performed by Tenant or City shall be performed at Tenant's expense. In addition, Tenant agrees to bear the cost of any and all damage of whatever nature caused by any act, omission, or negligence of City and any and all of its boards, officers, agents, consultants, and employees in the performance of said subsurface exploration as required by this provision. Work performed by City or City's contractors under this provision does not alter Tenant's obligation to maintain the Premises in a safe condition, both during and after completion of the work.

After installation, and in any event for the duration of this Agreement, Tenant shall comply with pipeline testing and inspection requirements, as well as the laws and regulations under CFR Title 49, Subtitle B, Chapter 1 Subchapter D, the Pipeline Safety Act, the California Public Utilities Code, the California Public Utilities Commission regulations for pipelines, the California State Lands Commission Marine Facilities Division ("CSLC/MFD"), the State of California Bureau of Conservation/Division of Oil, Gas, and Geothermal Resources ("DOGGR"), and any other federal, state, or local agency not mentioned above, and as required by the California State Fire Marshall ("CSFM") under the Pipeline Safety Act. The City reserves the right to request tests for facilities not under the direct authority of the CSFM, the CSLC/MFD, the DOGGR, the California Public Utilities Commission, and the Federal Office of Pipeline Safety ("FOPS").

As to pipeline tests or inspections, Tenant shall comply with the following:

(a) Within thirty (30) days from the Effective Date of this Agreement, and at least annually thereafter, Tenant shall provide the Director of Real Estate of the Harbor Department and the Director of Environmental Management of the Harbor Department with a master schedule showing dates for pipeline testing and inspection(s) in accordance with the requirements referenced above. The master schedule shall include an itemized list with corresponding line item reference numbers for each pipeline covered under this Agreement, corresponding required test(s) or inspection(s), date(s) of test(s) or inspection(s), method(s) of test(s) or inspection(s), applicable agency, the frequency of required test(s) or inspection(s), and the California State Fire Marshall Line Number and the California State Fire Marshall Test ID Number, if applicable. If Tenant’s existing pipelines are modified, or new pipelines are added to Tenant’s Premises, Tenant shall follow the authorization procedure required by Applicable Law, and provide an updated master schedule with any addition or subtraction of pipelines. .

(b) If Tenant’s pipeline test(s) or inspection(s) are approved by the applicable agency requiring or overseeing the test(s) or inspections(s), Tenant shall confirm in writing to the Harbor Department approval of the test(s) or inspections(s) and/or submit documentation including master schedule reference number for pipeline(s) being reported on, date(s) of test(s) or inspection(s), method(s) of test(s) or inspection(s) and a general non-technical summary of results.

(c) Tenant shall submit a summary of its certified test or inspection approval results to the Director of Environmental Management of the Harbor Department within thirty (30) days after they have been approved by the agencies which required the pipeline testing or inspection(s), and the records of such test(s) shall be retained by Tenant for as long as is required by Applicable Law, but in any event not less than three (3) years. Records of all tests will be made available for inspection by the Executive Director.

(d) If Tenant's pipeline test(s) or inspection(s) are disapproved, and/or there are irregularities with Tenant's pipeline test(s) or inspection(s), indicating a leak or other operational deficiency, Tenant shall notify the Director of Environmental Management of the Harbor Department within three (3) days of disapproval and/or receipt of test(s) or inspection(s) results with a non-technical summary of the results including the circumstances that resulted in the disapproval or test(s)/inspection(s) irregularities as well as all test documentation produced and a description and schedule for implementation of corrective action as directed by the applicable agency requiring or overseeing the test(s) or inspection(s).

As to relocation of pipelines, at any time during the term of this Agreement, the Board shall have the right to make any change in the route or location of any pipeline constructed or maintained on the Premises by Tenant pursuant to the authority of this Agreement as may be required or made necessary for the progress of harbor development or the performance of any work or improvement within the jurisdiction of the Board. If the Board shall determine that any such change or relocation is necessary, the Board shall give at least ninety (90) days' written notice to Tenant and the work of removal and relocation shall be completed within such time after said written notice as shall be fixed in said notice. The cost of any such removal and relocation shall be borne by Tenant. If Tenant neglects, fails or refuses within the time specified in said notice to begin or fails to prosecute diligently to complete the work of relocating the pipelines, the Harbor Department shall provide written notice to Tenant which shall specify such neglect, failure or refusal. Upon delivery of the notice specifying Tenant's neglect, failure or refusal, Tenant shall have such time as is reasonably necessary to cure such neglect, failure or refusal so long as Tenant commences the cure within a thirty (30) day period and thereafter diligently prosecutes such cure to completion. If Tenant fails to cure in a timely and diligent manner, City shall have the right to enter the Premises and relocate the pipelines. Tenant shall be solely responsible for City Costs associated with the right set forth herein, and shall pay City, as Additional Rent, within thirty (30) days of receiving an invoice for payment from City. Tenant hereby waives the provisions of the Water Resources Development Act of 1980, and as amended, pertaining to cost allocation for pipeline relocation.

EXHIBIT E – WILMINGTON TRUCK ROUTE

TRUCKS ENTERING AND LEAVING THE PORT MUST USE THE ROUTE SHOWN BELOW.
CAMIÓNES ENTRANDO Y SALIENDO EL PORTO DEVEN DE USAR LA RUTA INDICADO ABAJO.

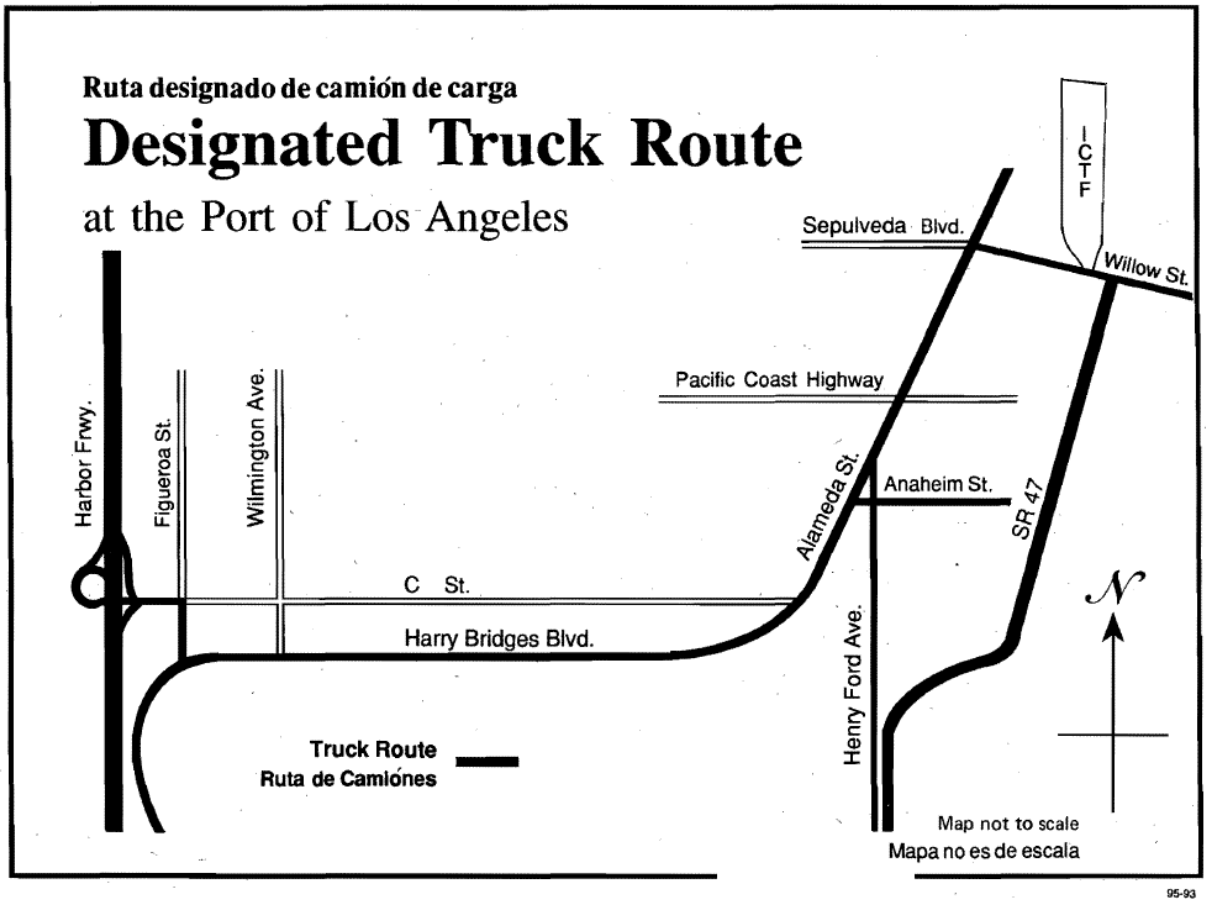


EXHIBIT F – SPECIFICALLY IDENTIFIED APPLICABLE LAWS

Local Job Participation; Living Wage. In furtherance of the policies of the Board and the Council, Tenant shall strive to achieve the goals of local job participation in the use and operation of the Premises and the Living Wage Ordinance of the City of Los Angeles as defined in the City of Los Angeles Administrative Code Section 10.37. The Tenant is obligated to make that determination, and shall be bound by and comply with provisions of the Applicable Law, including, but not limited to, the California Labor Code.

Business Tax Registration Certification.

(a) Tenant. Tenant represents that it has registered its business with the Office of Finance of the City of Los Angeles and has obtained and presently holds from that Office a Business Tax Registration Certificate, or a Business Tax Exemption Number, required by City's Business Tax Ordinance (Article I, Chapter 2, Sections 21.00, *et seq.,* of City's Municipal Code, or its successor). Tenant shall maintain, or obtain as necessary, all such Certificates required of it under said Ordinance and shall not allow any such Certificate to be revoked or suspended during the Term of this Agreement. See https://business.lacity.org/start/BTRC.

(b) Contractors. Tenant represents that it shall require its contractors and subcontractors to register their business with the Office of Finance of the City of Los Angeles and to obtained and hold from that Office a Business Tax Registration Certificate, or a Business Tax Exemption Number, required by City's Business Tax Ordinance (Article 1, Chapter 2, Sections 21.00, *et seq.* of City's Municipal Code, or its successor) for all work done on the Premises.

(c) Subtenants. Tenant represents that it shall include in all its subleases the requirement that the subtenant register its business with the Office of Finance of the City of Los Angeles and obtain and hold from that Office a Business Tax Registration Certificate, or a Business Tax Exemption Number, required by City's Business Tax Ordinance (Article 1, Chapter 2, Sections 21.00, *et seq.* of City's Municipal Code, or its successor) and further require that the subtenant maintain, or obtain as necessary, all such Certificates required of it under said Ordinance and not allow any such Certificate to be revoked or suspended during the Term of its sublease.

Nondiscrimination and Affirmative Action. Tenant agrees not to discriminate in its employment practices against any employee or applicant for employment because of the employee's or applicant's race, religion, ancestry, national origin, sex, sexual orientation, age, disability, marital

status, domestic partner status or medical condition. All assignments, subleases and transfers of interest in this Agreement under or pursuant to this Agreement shall contain this provision. The provisions of Section 10.8.4 of the Los Angeles Administrative Code as set forth in the attached Exhibit "L" are incorporated herein and made a part hereof.

Service Contractor Worker Retention Policy and Living Wage Policy Requirements. The Board adopted Resolution No. 5771 on January 3, 1999, agreeing to adopt the provisions of Los Angeles City Ordinance No. 171004 relating to Service Contractor Worker Retention ("SCWR"), set forth at Section 10.36, *et seq.* of the Los Angeles Administrative Code, as the policy of City's Harbor Department. Further, Charter Section 378 requires compliance with the City's Living Wage requirements as set forth by ordinance, set forth at Section 10.37, *et seq.* of the Los Angeles Administrative Code. Tenant shall comply with the policy wherever applicable. Violation of this provision, where applicable, shall entitle the City to terminate this Agreement and otherwise pursue legal remedies that may be available. See https://bca.lacity.org/service-contract-worker-retention-ordinance-scwro.

Wage and Earnings Assignment Orders/Notices of Assignments. Tenant is obligated to fully comply with all applicable state and federal employment reporting requirements for the Tenant and/or its employees. Tenant shall certify that the principal owner(s) are in compliance with any Wage and Earnings Assignment Orders/Notices of Assignments applicable to them personally. Tenant shall fully comply with all lawfully served Wage and Earnings Assignment Orders and Notices of Assignments in accordance with California Family Code Section 5230, *et seq.* Tenant shall maintain such compliance throughout the term of this Agreement.

Equal Benefits Policy. The Board adopted Resolution No. 6328 on January 12, 2005, agreeing to adopt the provisions of Los Angeles City Ordinance No. 172,908, as amended, relating to Equal Benefits, set forth at Section 10.8.2.1, *et seq.* of the Los Angeles Administrative Code, as a policy of City's Harbor Department. Tenant shall comply with the policy wherever applicable. Violation of the policy shall entitle the City to terminate any Agreement with Tenant and pursue any and all other legal remedies that may be available. See https://bca.lacity.org/equal-benefits-ordinance-ebo.

Minority, Women, and Oher Business Enterprise (MBE/WBE/OBE) Outreach Program. It is the policy of the City to provide minority business enterprises ("MBEs"), women's business enterprises ("WBEs"), and all other business enterprises ("OBEs") an equal opportunity to participate in the performance of all City contracts in all areas where such contracts afford such participation opportunities. Tenant shall assist City in implementing this policy and shall use its best efforts to afford the opportunity for MBEs, WBEs, and OBEs to achieve participation in

subcontracts where such participation opportunities present themselves and attempt to ensure that all available business enterprises, including MBEs, WBEs, and OBEs, have an equal opportunity to compete for, and participate in, any such participation opportunity which might be presented under this Agreement.

Applicable Law and Third-Party approval or Consent. The City shall have no liability to the Tenant or any third party if this transaction does not comply with any Applicable Laws or any third-party compliance or approval process. The city is not liable or responsible to the Tenant or any third party for any damages to the Tenant or the third party if this Agreement is terminated due to a violation of Applicable Laws or any third party compliance or approval process.

EXHIBIT G
BASE LINE REPORTS

Supplemental Subsurface Investigation Report

FEBRUARY 17, 2009

Performed at:

7TH STREET GARAGE
1510/1520 EAST I STREET
WILMINGTON, CALIFORNIA

Performed for:

PORT OF LOS ANGELES
ENVIRONMENTAL MANAGEMENT DIVISION
425 SOUTH PALOS VERDES STREET
SAN PEDRO, CALIFORNIA 90731

PROJECT DIRECTIVE #15
AGREEMENT NUMBER 2659
ADP NUMBER 070619-118

Performed by:

Pacific Edge Engineering, Inc.

26691 Plaza, Suite 270
Lake Forest, CA 92630

Tabb Bubier
Principal

In Association with:

Jenkins Environmental Associates

J E A

11749 Capri Drive
Whittier, CA 90601

Richard L. Jenkins, Ph.D., P.E.
Project Manager

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(949) 470-1937; (949) 470-0943 (FAX)

FIGURES

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APPENDICES

PROFESSIONAL CERTIFICATION

Pacific Edge Engineering, Inc., under the professional supervision of Craig Stolz, has prepared this report. The findings, conclusions, specifications, and/or professional opinions presented in this report have been prepared in accordance with generally accepted professional engineering practice, and within the scope of the project. There is no other warranty, either expressed or implied.

Craig A. Stolz
P.E. No. C049758
Principal Engineer
Pacific Edge Engineering, Inc.

EXECUTIVE SUMMARY

Pacific Edge Engineering, Inc. (Pacific Edge), on behalf of the Port of Los Angeles (Port), conducted soil, soil gas, and grab-groundwater sampling to supplement investigation results obtained during Pacific Edge's October 2007 investigation (Reference #1).

The property is known as the "7th Street Garage" and is located at 1510/1520 East I Street in Wilmington, California (the Site). A Site location map is presented as Figure 1.

The Site is an unpaved rectangular shaped parcel approximately 1.28 acres in size and consists of eleven (11) contiguous lots (see Figure 2). During the 2007 investigation, the Site was being used as a salvage and storage yard for automobiles, boats, and recreational vehicles. Sometime after the 2007 investigation the tenant vacated the Site and the Site remained idle. During the 2008 investigation, the former tenant was preparing to again occupy the Site and conduct their salvage operations. The Site is located within the area classified by Los Angeles Regional Water Quality Control Boards (RWQCB) as a de-designated groundwater area (Reference #2).

A Phase I Environmental Assessment (Reference #3) was conducted by Pacific Edge and the following Recognized Environmental Conditions (RECs) were identified:

- Oil Well NWU31-27 located on the southeastern portion of lot #18
- Historic Sanborn Maps show above ground oil storage tanks located on lots 14, 15, and 20.
- Current salvage operations have a potential for discharging vehicle fluids and metals directly to surface soil

In October 2007, Pacific Edge conducted a soil and soil gas investigation to assess the above RECs. The results of the 2007 investigation identified TPH, VOC, PCBs, and metals contamination that warranted further investigation.

Subsequently, Pacific Edge conducted the supplemental investigation documented herein. Prior to conducting the supplemental investigation, Pacific Edge was informed by the Port that an asphalt cover was being considered for the Site and that the upper 2-feet of soils were not suitable from a geotechnical standpoint and would need to be excavated prior to construction of an asphalt cover. As a result, the supplemental investigation placed more emphasis on the upper 2-feet of soil in order to evaluate appropriate management measures if this soil were excavated for construction of the asphalt cover.

The supplemental investigation was conducted on October 30 and 31, 2008. Soil, soil gas, and grab-groundwater samples were collected throughout the Site. Sample locations were selected to further assess areas where elevated contaminant concentrations were detected during the 2007 investigation, and evaluate areas that were not accessible during the 2007 investigation. All data collected during both investigations were compared to one (1) or more of the following criteria:

- Preliminary Remediation Goals (PRGs) – USEPA Region 9 (Reference #4)
- California Human Health Screening Levels (CHHSLs) – CalEPA (Reference #5)
- Soil Screening Levels - Los Angeles Regional Water Quality Control Board (Reference #6)
- Unrestricted re-use level for Total TPH (TPH $_{C6-C44}$) impacted soil (Reference #7)
- Methane Mitigation Standards – City of Los Angeles (Reference #8)
- Maximum Contaminant Levels for Drinking Water - CalEPA (Reference #9)
- California Code of Regulations (Reference #10)

Site data was compared to the above criteria to evaluate 1) if contaminants would pose a potential health risk under the current industrial land use setting, 2) if remediation is necessary under the current industrial use, 3) if soil management measures are necessary in the event Site soils are disturbed or excavated in the future, and 3) if soil gas and groundwater warrant further action.

The investigation results indicate the following:

- Site soils have been impacted by Total TPH (TPH $_{C6-C44}$). The distribution of total TPH is predominantly a mixture of diesel (TPH $_{C13-C22}$) and motor oil (TPH $_{C23-C44}$) with minor amounts of gasoline (TPH $_{C6-C12}$) detected in a few samples. Total TPH (TPH $_{C6-C44}$) concentrations exceed the unrestricted re-use concentration of 1,000 mg/kg at several locations. The highest total TPH concentrations are located at the former ASTs on the western portion of the Site. If soils with a total TPH concentration greater than 1,000 mg/kg are disturbed or excavated this soil should be properly managed for off-site disposal or recycling. Figure 10 (upper 2-feet) and Figure 11 (> 2-feet) illustrate the estimated area with soil impacted above the 1,000 mg/kg unrestricted re-use criteria.
- Low concentrations of Volatile Organic Compounds (VOCs) were detected in soil and are concomitant with TPH. All detected VOCs in soil were below their respective industrial PRG value indicating no further action is warranted with respect to VOCs absorbed to soil.
- Polycyclic Aromatic Hydrocarbons (PAHs) analytes were detected at low concentrations in two (2) soil samples. Detected PAH analyte concentrations were significantly below their respective industrial PRG value indicating no further action is warranted.
- Arsenic was detected in all soil samples above its industrial CHHSL value. It is a common occurrence in southern California for background arsenic concentrations to exceed its CHHSL value. Review of the arsenic Site data suggests a background concentration range from 1.74 mg/kg to 9.05 mg/kg. Five (5) soil samples showed arsenic concentrations above the presumed background range and therefore are subject to further action. Further action could include a site-specific risk assessment to determine if an unacceptable human health risk exists at the Site, or cover the impacted areas to eliminate the potential exposure pathway, or removal of impacted soil at these areas. These areas are show on Figures 10 and 11.
- Cadmium exceeded its industrial CHHSL value at three (3) locations and indicates further action is warranted. Further actions include those discussed above. These areas are show on Figure 10.

- Lead did not exceed its industrial CHHSL value of 3,500 mg/kg. However, lead did exceed its TTLC and STLC values at several locations. Ten (10) soil samples with the highest total lead concentrations were subjected to the California WET procedure. Eighty (80) percent of these ten (10) samples exceeded the lead STLC of 5 mg/L. The estimated areas impacted with lead above its TTLC and STLC are shown on Figure 10. Excavated soil from these areas should be managed as hazardous waste according with Title 22, California Code of Regulations. It is important to note that forty-six (46) samples had total lead concentrations greater than 50 mg/kg, which is 10 times the STLC value of 5 mg/L. Not all of these samples were tested for soluble lead. As a result, soil excavated outside the area shown on Figure 10 should be stockpiled and sampled for total and soluble lead prior to re-use or disposal.
- PCBs (aroclor-1248 and aroclor-1254) were detected in twenty-one (21) soil samples. Aroclor-1248 and 1254 exceeded their industrial CHHSL value in eleven (11) samples indicating further action is warranted. Further actions include those discussed above. These areas are show on Figure 10.
- Several VOCs were sporadically detected in soil gas at the Site. The detected VOCs are concomitant with TPH and fuels. Benzene was detected at three (3) locations and is the only VOC detected above its industrial CHHSL value for shallow soils. The shallow soil gas industrial CHHSL value represents a concentration that is protective of indoor air by intrusion. Since buildings are not present at the Site no further action appears warranted with respect to VOCs in soil gas. However, if future Site development were to include construction of buildings, additional soil gas investigation and/or appropriate mitigation measures should be considered.
- Methane was detected in three (3) soil gas samples. At the former ASTs on the western portion of the Site methane was detected at a concentration of 7,580 parts per million by volume (ppmv). According to the City of Los Angeles Methane Code, this concentration would require further investigation and possible mitigation measures for new building construction. Since buildings are not present at the Site no further action appears warranted with respect to methane in soil gas. If future Site development were to include construction of buildings, additional methane investigation and/or appropriate mitigation

measures should be considered. However, removal of TPH impacted soil at the former ASTs area would likely mitigate methane concentrations below levels of concern for construction of a building, assuming potential TPH impacts to underlying groundwater does not result in unacceptable methane levels.

- Total TPH (TPH $_{C6-C44}$) was detected in all grab-groundwater samples with the highest concentration of 34,000 microgram per liter (ug/L) detected in GS27 at the former ASTs area. This area is also where the highest TPH concentrations in soil were detected suggesting that the former ASTs is a source of groundwater contamination. A hydrocarbon sheen was observed on the grab-groundwater sample collected in GS27. It is therefore possible that free-floating product is present beneath the former ASTs area. The installation of groundwater wells is a method to evaluate the presence of free-floating product at the former ASTs area.
- Similar to soil, the distribution of total TPH in groundwater is predominantly a mixture of diesel (TPH $_{C13-C22}$) and motor oil (TPH $_{C23-C44}$) with the exception of GS13 located near the northeastern property boundary. In GS13, gasoline (TPH $_{C6-C12}$) was the predominant contaminant. Review of soil and groundwater results suggest that it is possible that an off-site source is contributing to groundwater contamination at the Site. The installation of groundwater monitoring wells is one method to investigate if an off-site source of gasoline is contributing to on-site groundwater contamination.
- VOCs concomitant with TPH and fuels were detected at low concentrations in grab-groundwater samples collected at the former ASTs. None of these VOCs exceeded their primary MCL for drinking water. Of particular note is MTBE which was detected at a low concentration of 1.4 ug/L (MCL = 13 ug/L) in GS25. MTBE was not detected in any other grab-groundwater sample or any soil sample. This suggests a relatively recent release (post ASTs) and could be the result of tenant salvage operations or an off-site source.
- Other non TPH and fuel related VOCs detected in groundwater include trichloroethene (TCE), c-1,2-dichloroethene (cis-DCE), and t-1,2-dichloroethene (trans-DCE). These VOCs were detected in one grab-groundwater sample (GS20), with the exception of cis-DCE which was also detected in sample GS19. These VOCs were detected at

concentrations below their respective MCL value for drinking water. Cis-DCE and trans-DCE are likely daughter products of the decomposition of TCE. None of these VOCs were detected in soil samples. Based on the location of grab-groundwater samples GS19 and GS20 an off-site source is suspected. The installation of groundwater monitoring wells is one method to investigate potential off-site sources for these VOCs.

- The presence of the oil well at the Site will present special constraints for the construction of any buildings near or over the well in the future. The regulatory requirements will include, but may not be limited to, those as defined by the California Division of Oil, Gas, and Geothermal Resources.

In summary, contaminants in soil, soil vapor, and shallow groundwater were encountered at the Site. The presence of detected contaminants in soil and groundwater may pose a risk to human health or the environment and warrant further action. Further action could include some or all of the following: 1) a site-specific risk assessment to determine if an unacceptable human health risk exists at the Site, or 2) cover the impacted areas to eliminate the potential exposure pathway, or 3) removal of impacted soil at these areas.

1.0 INTRODUCTION

The purpose of the supplemental investigation, documented herein, was to further assess the nature and extent of contamination identified during Pacific Edge's initial subsurface investigation conducted on October 12, 2007 (Reference #1).

1.1 SITE DESCRIPTION

A Site location map is presented as Figure 1. The Site is bordered on the north by East I Street, on the west by an industrial property, on the east by a commercial property, and on the south by an un-named alley. The Site is approximately 1.28 acres in size and consists of eleven (11) lots. The center lot was formerly an extension of Lansing Avenue. The entire Site is unpaved and is secured by a chain-link fence with one access gate located along East I Street.

At the time of the 2007 investigation, the tenant (7th Street Garage) operated a salvage and storage business. Automobiles, boats and recreational vehicles were salvaged at the Site. According to 7th Street Garage on-site personnel, processing of wood or metal was not conducted and salvaging primarily consisted of dismantling vehicles for resale of used parts on an as needed basis. 7th Street Garage vacated the property sometime after the 2007 investigation, leaving the Site a dirt lot. During the supplemental investigation conducted in October 2008, 7th Street Garage was preparing to again occupy the Site. Site preparation consisted of trash removal (small amount of paper and plastic debris that had accumulated) and leveling of some small areas using hand shovels and rakes.

Oil well NWU31-27 is the only permanent structure located at the Site. This oil well is within lot #18 at the eastern portion of the Site. The well is owned by Warren Resources, Inc and is part of the North Wilmington Oil Field Unit (NWU). The well was installed in October 1955 to a depth of 3,610-feet below ground surface (bgs). Oil production began on October 18, 1955 with initial production of 40 barrels per day of oil and water. No other information regarding this well was obtained by Pacific Edge. The status of this well is unknown but it appears to be an idle well.

A 1950 Sanborn map shows the oil well on lot #18 and four (4) aboveground oil storage tanks (ASTs) and supporting concrete dykes. Three (3) of the former ASTs were located on Lot #'s 14, 15, and 20, with the remaining AST located on lot #2 of the adjacent property. There is no current visual evidence of the ASTs or the concrete dykes. A copy of the 1950 Sanborn Map is included as Appendix A.

Figure 2 presents an aerial photograph of the Site and illustrates the approximate location of the lots, oil well, and ASTs. It should be noted that stored vehicles shown on Figure 2 does not represent actual Site conditions during the initial investigation in October 2007 or the supplemental investigation in October 2008.

1.2 OCTOBER 2007 INVESTIGATION

During the 2007 investigation, a total of twelve (12) borings identified as GS1 through GS12 were advanced using a Geoprobe. Boring locations are depicted on Figure 2.

At each boring location, temporary soil gas probes were installed at a depth of 5-feet below ground surface (bgs) for the collection of soil gas samples. Soil samples were also collected at each boring location at the depths of 0.5-, 2.5-, and 5.5-feet bgs. Groundwater was not encountered during the advancement of any soil borings.

Soil and soil gas samples were analyzed for Volatile Organic Compounds (VOCs). Soil samples were also analyzed for one or more of the following:

- Total Petroleum Hydrocarbons (C7-C44)
- CAM Metals
- Organochlorine Pesticides (OCPs)
- Polychlorinated Biphenyls (PCBs)
- Semi-Volatile Organic Compounds (SVOCs)

1.2.1 VOCs in Soil Gas

Several VOCs were detected at low concentrations in soil gas samples. Benzene was the only VOC that exceeded its California Human Health Screening Level (CHHSL) of 0.122 micrograms per liter (ug/L) for an industrial setting (Reference #5). Locations where benzene in soil gas exceeded its industrial CHHSL included GS1 (0.539 ug/L), GS2 (0.984 ug/L), and GS4 (0.174 ug/L).

1.2.2 VOCs in Soil

Benzene was not detected in any soil sample analyzed for VOCs. Toluene, Ethanol, Bromoform, and p/m-Xylene were the only VOCs detected in soil. Toluene was detected in four (4) samples at low concentrations. The highest toluene concentration of 1.3 ug/L was detected at the depth of 5.5-feet bgs in GS9 located in Lot #15 near the former oil ASTs. Xylene (p/m) was detected in one (1) sample, with a concentration of 1.8 ug/L in boring GS10 located in Lot #14. Ethanol was detected in one (1) sample, with a concentration of 540 ug/L in boring GS3 located in Lot #19. Bromoform was detected in one (1) sample, with a concentration of 8.9 ug/L in boring GS7 located in the center of the Site (formerly an extension of Lansing Avenue). Because CHHSL values are not provided for VOCs in soil, detected VOC concentrations were compared to their Preliminary Remediation Goal (PRG) for industrial soil (Reference #4). Detected VOC concentrations did not exceed their respective PRG for industrial soil.

1.2.3 TPH in Soil

Total Petroleum Hydrocarbons (TPH) was detected in all soil samples analyzed, with the exception of samples collected at Geoprobe location GS1. Total TPH (C7-C44) concentrations exceeding 1,000 milligrams per kilogram (mg/kg) included the following locations:

- GS3 (1,300 mg/kg) at a depth of 2.5-feet in Lot #19
- GS6 (4,400 mg/kg) at a depth of 0.5-feet in the center lot
- GS7 (13,000 mg/kg) at a depth of 0.5-feet in the center lot
- GS8 (4,700 mg/kg) at a depth of 0.5-feet in Lot #16

- GS8 (6,700 mg/kg) at a depth of 2.5-feet in Lot #16
- GS9 (13,000 mg/kg) at a depth of 0.5-feet in Lot #15 near the former oil ASTs
- GS9 (30,000 mg/kg) at a depth of 2.5-feet in Lot #15 near the former oil ASTs
- GS10 (4,100 mg/kg) at a depth of 2.5-feet in Lot #14

TPH was detected at a concentration of 250 mg/kg or less throughout the remainder of the Site.

1.2.4 SVOCs in Soil

Bis (2-ethylhexyl) Phthalate and Phenol were the only SVOCs detected in soil. Bis (2-ethylhexyl) Phthalate was detected in two (2) samples at the depth of 2.5-feet in borings GS8 and GS10 at concentrations of 2.2 mg/kg and 2.0 mg/kg, respectively. Phenol was detected in ten (10) samples at the depth of 2.5-feet. The highest Phenol concentration was detected in GS6 at 2.8 mg/kg. CHHSL values have not been established for these SVOCs. Therefore, detected SVOC concentrations were compared to their industrial PRG value. Detected SVOC concentrations did not exceed their respective PRG for industrial soil.

1.2.5 OCPs in Soil

DDT was the only OCP detected in soil. DDT was detected in borings GS4 and GS5 at the depth of 2.5-feet at concentrations of 5.2 micrograms per kilogram (ug/kg) and 5.9 ug/kg, respectively. DDT did not exceed the industrial CHHSL of 6,300 ug/kg.

1.2.6 PCBs in Soil

PCB analysis was performed on all samples collected at a depth of 0.5-feet bgs. Aroclor-1248 was detected in one (1) sample, GS7, at a concentration of 1,800 ug/kg, which exceeded the industrial CHHSL of 300 ug/kg. Aroclor-1254 was detected in four (4) samples (GS4, GS5, GS6, and GS7). Aroclor-1254 exceeded the industrial CHHSL in the sample collected at GS7 having a concentration of 990 ug/kg.

1.2.7 Metals in Soil

Metals were detected in soil at concentrations which were considered not a concern, with the exception of arsenic, lead, and cadmium. Arsenic was detected throughout the Site at concentrations that exceeded the industrial CHHSL value. Arsenic concentrations ranged from 2.81 mg/kg to 14.4 mg/kg.

Lead was not detected above the industrial CHSSL value of 3,500 mg/kg. However, the industrial CHHSL value is above the Total Threshold Limit Concentration (TTLC) value for lead of 1,000 mg/kg as defined in Title 22, California Code of Regulations. The maximum detected lead concentration was 1,210 mg/kg located at the depth of 0.5-feet in boring GS6. The maximum detected lead concentration was the only sample that exceeded the TTLC value of 1,000 mg/kg. Nine (9) soil samples had a total lead concentration that exceeded 50 mg/kg, which is 10 times the Soluble Threshold Limit Concentration (STLC) for lead of 5 mg/kg.

Cadmium was detected in eight samples analyzed. Cadmium was not detected at a concentration above its industrial CHHSL value but was considered slightly elevated in several samples including GS6 at 0.5-feet bgs where lead exceeded the TTLC value.

2.0 SUPPLEMENTAL SUBSURFACE INVESTIGATION

Based on the October 2007 investigation results, supplemental sampling was conducted to:

- Further define the extent of TPH, VOCs, PCBs, arsenic, cadmium, and lead in soil by obtaining additional data at areas where elevated concentrations were previously detected and obtain data in areas that were not accessible during the 2007 investigation.
- Evaluate potential Polycyclic Aromatic Hydrocarbons concentrations in soil.
- Obtain additional soil gas data to verify previous results and determine the potential extent of benzene exceeding the industrial CHHSL for shallow soils. Obtain methane data due to elevated TPH concentrations in soil and the presence of an oil well on the Site.
- Evaluate groundwater for potential contamination of TPH and VOCs.

The supplemental subsurface investigation was conducted by Pacific Edge on October 30 and 31, 2008. Soil, soil gas, and grab-groundwater samples were collected from one (1) or more Geoprobe borings (G13 through G31). Hand auger borings HA1 through HA12 were also completed for collection of shallow soil samples. Soil boring logs for the supplemental investigation (2008 investigation) are included as Appendix B. Boring and hand auger locations for the 2007 and 2008 investigations are depicted on Figure 2.

2007 and 2008 investigation results were compared to the following criteria to evaluate 1) if contaminants would pose a potential health risk under the current industrial land use setting, 2) if remediation is necessary under the current industrial use, 3) if soil management measures are necessary in the event Site soils are disturbed or excavated in the future, and 3) if soil gas and groundwater warrant further action:

- Preliminary Remediation Goals (PRGs) – USEPA Region 9 (Reference #4)
- California Human Health Screening Levels (CHHSLs) – CalEPA (Reference #5)
- Soil Screening Levels - Los Angeles Regional Water Quality Control Board (Reference #6)

- Unrestricted re-use level for Total TPH (TPH $_{C6-C44}$) impacted soil (Reference #7)
- Methane Mitigation Standards – City of Los Angeles (Reference #8)
- Maximum Contaminant Levels for Drinking Water - CalEPA (Reference #9)
- California Code of Regulations (Reference #10)

2.1 FIELD METHODS

Boring and hand auger locations were selected to further assess areas where elevated contaminant concentrations were detected during the 2007 investigation, and evaluate areas that were not accessible during the 2007 investigation.

During the 2008 investigation, nineteen (19) Geoprobe borings were advanced to groundwater at approximately 10.5-feet below ground surface (bgs). A total of sixty-nine (69) soil samples were collected at the general depths of 1-, 5-, and 10-feet bgs.

An additional thirty-eight (38) soil samples were collected from twelve (12) hand auger locations. Hand auger samples were collected from the depths of 0.5-, 1-, and 2-feet bgs, with the exception of HA11 and HA12 where samples were also collected at 3-feet bgs.

Temporarily soil gas probes were installed in eight (8) of the Geoprobe borings at the depth of 5-feet bgs. Soil gas samples were collected in accordance with the joint Department of Toxic Substances Control (DTSC) and California Regional Water Quality Control Board (CRWQCB) "Advisory – Active Soil Gas Investigation" guideline dated January 28, 2003 (DTSC/CRWQCB, 2003). Soil gas samples were collected using a summa canister for VOC analysis and a syringe that was immediately injected into a tedlar bag for methane analysis. Tedlar bag samples were collected first, followed by sample collection using a summa canister.

Grab-groundwater samples were collected at eleven (11) Geoprobe locations by setting a temporary stainless-steel screen from approximately 10- to 14-feet bgs.

Pacific Edge's Standard Operating Procedures (SOPs) for soil, soil gas, and grab-groundwater sampling are included as Appendix C. Encore™ test kits were utilized by the sampler in accordance with EPA Method 5035 for soil samples selected for Volatile Organic Compound (VOC) analysis.

2.2 ANALYTICAL METHODS

Soil samples were analyzed for one or more of the following:

- Total Petroleum Hydrocarbons (C6-C44) by EPA Method 8015 (M)
- Total Arsenic, Cadmium, and Lead by EPA Method 6010B
- Leachable Lead by EPA Method 6010B
- VOCs by EPA Method 5035B/8260B
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082
- Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270C SIM

Soil gas samples were analyzed for VOCs by EPA Method 8260 and methane by EPA Method 8015 (M).

Grab-groundwater samples were analyzed for one or more of the following:

- Total Petroleum Hydrocarbons (C6-C44) by EPA Method 8015 (M)
- VOCs by EPA Method 8260B

Soil and grab-groundwater laboratory reports and chain-of-custody documents are provided as Appendix D. Soil gas laboratory reports and chain-of-custody documents are provided as Appendix E.

2.3 SOIL RESULTS

2.3.1 TPH

An additional forty-one (41) soil samples were selected for total TPH (TPH $_{C6-C44}$) analysis during the supplemental investigation (2008 investigation). TPH $_{C6-C44}$ was detected in all soil samples except GS18 and GS23 at the depth of 10-feet bgs.

Detected TPH concentrations for both investigations were compared to the RWQCB's maximum soil screening levels (Reference #6) for soils above a non-drinking water aquifer and an unrestricted re-use criterion routinely employed by the Port of Los Angeles (Reference #7). These screening levels are:

- Gasoline (TPH $_{C4-C12}$) = 1,000 mg/kg
- Diesel (TPH $_{C13-C22}$) = 10,000 mg/kg
- Motor Oil (TPH $_{C23-C44}$) = 50,000 mg/kg
- Unrestricted re-use (TPH $_{C4-C44}$) = 1,000 mg/kg

The above screening levels were used to evaluate the need for remediation under current undisturbed Site conditions and/or if the soil can be reused if disturbed or excavated. The following summarizes TPH concentrations detected in soil during the 2007 and 2008 investigations that exceed one or more of the above screening levels:

Sample ID	Date Sampled	TPH gas C6-C12[(a)] (mg/kg)	TPH diesel C13-C22[(b)] (mg/kg)	TPH motor oil C23-C44[(c)] (mg/kg)	TPH C6-C44[(d)] (mg/kg)
GS3-2.5'	10/12/07	ND[(e)]	139.2	1,141	1,300
GS6-0.5'	10/12/07	ND	289.7	4,100	4,400
GS7-0.5'	10/12/07	ND	729	12,500	13,000

Sample ID	Date Sampled	TPH gas C6-C12[(a)] (mg/kg)	TPH diesel C13-C22[(b)] (mg/kg)	TPH motor oil C23-C44[(c)] (mg/kg)	TPH C6-C44[(d)] (mg/kg)
GS8-0.5’	10/12/07	ND	156.8	4,600	4,700
GS8-2.5’	10/12/07	520	1,018	5,180	6,700
GS9-0.5’	10/12/07	4.4	2,088	10,460	13,000
GS9-2.5’	10/12/07	486	8,700	19,600	30,000
GS10-2.5’	10/12/07	ND	351	3,830	4,100
GS25-1’	10/31/08	3.8	2,233	11,960	14,000
GS27-10’	10/31/08	1,890	8,600	10,300	21,000

(a) Sum of hydrocarbons classified to be in the carbon length range of 6 to 12.
(b) Sum of hydrocarbons classified to be in the carbon length range of 13 to 22.
(c) Sum of hydrocarbons classified to be in the carbon length range of 23 to 44.
(d) Sum of hydrocarbons classified to be in the carbon length range of 6 to 44.
(e) Not detected above laboratory reporting limit.

TPH ($_{C6-C12}$) as gasoline exceeded its screening level at a depth of 10-feet in GS27.

TPH ($_{C6-C44}$) exceeded the unrestricted re-use criterion of 1,000 mg/kg at several Site locations in addition to GS27.

Table 1 presents a comprehensive summary of all analytical results for TPH in soil. TPH ($_{C6-C44}$) concentrations are also illustrated on Figure 3.

2.3.2 VOCs

An additional thirty-eight (38) soil samples were selected for VOC analysis during the 2008 investigation. Table 2 presents a comprehensive summary of VOCs detected in soil during the 2007 and 2008 investigations.

The following presents the maximum detected VOC concentration in soil during both investigations, the location at which the maximum concentration was detected, and the number of locations the VOC was detected. A comparison to CHHSLs was not conducted because

CHHSL values for VOCs in soil have not been established. Therefore, a comparison to EPA Region IX Preliminary Remediation Goals (PRG) for an industrial setting is presented in the table below:

Location	Depth (feet bgs)	# of Detects/ # of Samples	Detected VOC	Max Detected Conc. (mg/kg)	Industrial PRG (mg/kg)
GS27	10	3/50	Benzene	0.11	5.6
GS27	10	1/50	Ethylbenzene	5.9	29
GS13	5	15/50	Toluene	0.0086	46,000
GS27	10	1/50	o-Xylene	0.14	23,000
GS10	2.5	1/50	p/m-Xylene	0.0018	19,000
GS7	2.5	1/50	Bromoform	0.0089	220
GS3	2.5	1/12	Ethanol	0.54	NA
GS27	10	1/50	Isopropylbenzene	3.5	11,000
GS27	10	1/50	Naphthalene	15	670
GS27	10	1/50	n-Butylbenzene	4.3	NA
GS27	10	1/50	n-Propylbenzene	5.7	NA
GS27	10	1/50	sec-Butylbenzene	4.2	NA

As shown above, the maximum detected VOC concentrations were significantly less than their respective industrial PRG value.

2.3.3 PAHs

A total of twenty (20) soil samples were selected for PAH analysis during the 2008 investigation. Soil samples were not analyzed for PAHs during the 2007 investigation. Table 3 presents a comprehensive summary of PAHs detected in soil during the 2008 investigation.

The following presents the maximum detected PAH concentrations in soil, the location at which the maximum concentration was detected, and the number of locations the PAH was detected. CHHSL values for the detected PAH analytes are not available. Therefore, a comparison to EPA Region IX Preliminary Remediation Goals (PRG) for an industrial setting is presented in the table below:

Location	Depth (feet bgs)	# of Detects/ # of Samples	Detected PAH	Max Detected Conc. (mg/kg)	Industrial PRG (mg/kg)
GS27	10	1/20	Acenaphthene	1.2	33,000
GS20	1	1/20	Chrysene	0.023	210
GS27	10	1/20	Fluorene	1.6	22,000
GS27	10	1/20	1-Methylnaphthalene	17	99
GS27	10	2/20	2-Methylnaphthalene	26	4,100
GS27	10	2/20	Naphthalene	8.3	670
GS20	1	1/20	Pyrene	0.029	17,000

As shown above, the maximum detected PAH analyte concentrations were significantly less than their respective industrial PRG value.

2.3.4 Arsenic, Cadmium & Lead

Arsenic, cadmium, and lead were identified as metals of potential concern based on the 2007 investigation results. During the 2008 investigation, samples were selected for analysis of total arsenic, cadmium, and lead. Additionally, ten (10) samples were selected for soluble lead analysis.

Arsenic, cadmium, and lead concentrations were compared to their industrial CHHSL value. Lead was also compared to its Total Threshold Limit Concentration (TTLC) and/or its Soluble Threshold Limit Concentration (STLC) as defined in Title 22, California Code of Regulations.

2.3.4.1 Arsenic

A total of sixty-four (64) samples were analyzed for total arsenic during both investigations. Arsenic did not exceed its TTLC value of 500 mg/kg. Arsenic did exceed its industrial CHHSL value of 0.24 mg/kg in all samples. It is common for background or ambient arsenic levels to exceed the industrial CHHSL value.

Detected arsenic concentrations ranged from 1.74 mg/kg to 105 mg/kg. In fifty-nine (59) samples the arsenic concentration ranged from 1.74 mg/kg to 9.05 mg/kg and this range indicates

a distribution that likely represents Site background/ambient levels for arsenic. The following arsenic concentrations are greater than the presumed Site background range:

Sample ID	Depth (feet bgs)	Arsenic (mg/kg)
GS3	2.5	14.4
GS9	0.5	12.0
GS24	0.5	59.3
GS24	1	105.0
GS29	0.5	65.3

2.3.4.2 Cadmium

A total of seventy-two samples (72) were analyzed for total cadmium during both investigations. Cadmium was detected in forty-five (45) samples and ranged in concentrations from 0.56 mg/kg to 11.7 mg/kg. Cadmium did not exceed its TTLC value of 100 mg/kg. Cadmium did exceed its industrial CHHSL value of 7.5 mg/kg in three (3) samples as follows:

Sample ID	Depth (feet bgs)	Cadmium (mg/kg)
GS22	1	11.1
GS31	0.5	8.55
HA3	1	11.7

2.3.4.3 Lead

Eighty-three (83) samples were analyzed for total lead during both investigations. Total lead exceeded its TTLC value of 1,000 mg/kg in four (4) samples and include:

Sample ID	Depth (feet bgs)	Total Lead (mg/kg)
GS6	0.5	1,210
GS22	1	1,180
HA5	0.5	1,110

Sample ID	Depth (feet bgs)	Total Lead (mg/kg)
HA8	1	1,550

Ten (10) samples that did not exceed the TTLC for lead but were 10 times the STLC value (50 mg/kg) were subsequently analyzed for soluble lead. Of these ten (10) samples, eight (8) samples exceeded the STLC value for lead of 5 mg/L and include the following:

Sample ID	Depth (feet bgs)	Soluble Lead (mg/L)
GS22	0.5	16.6
GS28	0.5	24.9
GS29	0.5	5.31
GS30	0.5	65.9
HA3	0.5	15.5
HA4	0.5	26.8
HA4	1	40.7
HA6	1	75.1

It should be noted that an additional thirty-one (31) samples with a total lead concentration exceeding 10 times the STLC were not analyzed for soluble lead.

Table 4 presents a comprehensive summary of all metals detected in soil during both investigations. Arsenic, cadmium, and lead concentrations are also depicted on Figure 4.

2.3.5 PCBs

A total of fifty-seven (57) samples were analyzed for PCBs during both investigations. Aroclor-1248 and/or Aroclor-1254 were detected in twenty-one (21) of these samples. Both Aroclor-1248 and Aroclor-1254 exceeded the industrial CHHSLs of 0.3 mg/kg. The following presents a summary of locations where Aroclor-1248 and/or Aroclor-1254 exceeded the industrial CHHSL:

Location	Depth (feet bgs)	PCB	Detected Concentration above Industrial CHHSL (0.3 mg/kg)
GS7	0.5	Aroclor-1248 Aroclor-1254	1.8 0.99
GS18	0.5	Aroclor-1248 Aroclor-1254	0.3 0.34
GS22	1	Aroclor-1248 Aroclor-1254	2.1 1.1
GS23	0.5	Aroclor-1248 Aroclor-1254	1.6 0.59
GS30	0.5	Aroclor-1248 Aroclor-1254	4.4 <0.5
GS31	0.5	Aroclor-1248 Aroclor-1254	33 <5.0
GS31	1	Aroclor-1248 Aroclor-1254	0.32 <0.05
HA6	0.5	Aroclor-1248 Aroclor-1254	0.44 0.32
HA7	1	Aroclor-1248 Aroclor-1254	<0.25 2.1
HA8	0.5	Aroclor-1248 Aroclor-1254	1.9 0.85
HA8	1	Aroclor-1248 Aroclor-1254	0.54 <0.05

A complete summary of PCBs detected in soil during both investigations is presented as Table 5. Detected Aroclor-1248 and Aroclor-1254 concentrations are also illustrated on Figure 5.

2.4 SOIL GAS RESULTS

A total of twelve (12) shallow (5-feet bgs) soil gas probes were installed during the 2007 investigation and eight (8) shallow soil gas probes were installed in select Geoprobe borings during the 2008 investigation.

2.4.1 VOCs

The following presents the maximum detected VOC concentrations, the location at which the maximum concentration was detected, and the number of locations the VOC was detected. Additionally, the maximum VOC concentration is compared to its industrial CHHSL value:

Location	Depth (feet bgs)	# of Detects/ # of Locations	Analyte	Max Detected Conc. (µg/L)	Industrial CHHSL (µg/L)
GS2	5	3/20	Benzene	0.984	0.122
GS27	5	3/20	Ethylbenzene	1.64	NA
GS2	5	8/20	Toluene	6.55	378
GS2	5	3/20	Xylenes	3.43	87.9
GS27	5	1/20	sec-Butylbenzene	0.155	NA
GS27	5	1/20	Isopropylbenzene	0.783	NA
GS27	5	1/20	n-Propylbenzene	0589	NA
GS27	5	2/20	1,3,5-Trimethylbenzene	0.783	NA
GS2	5	11/12	Gasoline Range Organics	39.0	NA

Benzene is the only VOC with a soil gas concentration that exceeds its industrial CHHSL. Benzene exceeded the industrial CHHSL value of 0.122 ug/L at three (3) locations, GS1, GS2, and GS4. These locations are located on the eastern portion of the Site.

Table 6 presents a complete summary of all VOCs detected in soil gas during both investigations. VOC concentrations are also depicted on Figure 6.

2.4.2 Methane

Soil gas samples collected during the 2007 investigation were not analyzed for methane. During the 2008 investigation, methane was detected in three (3) of the eight (8) soil gas samples as follows:

- GS16 @ 10.8 ppmv
- GS25 @ 13.5 ppmv
- GS27 @ 7,580 ppmv

The highest methane concentrations (GS25 and GS27) were detected near the former ASTs located on the western portion of the Site where the highest TPH concentrations were detected in soil and groundwater. The methane concentration of 7,580 ppmv at GS27 exceeds the City of Los Angeles Building and Safety Department's standard for new building construction. Table 7 presents a summary of methane results. Methane concentrations are also depicted on Figure 7.

2.5 GRAB-GROUNDWATER RESULTS

Grab-groundwater samples were not collected during the 2007 investigation. Twelve (12) grab-groundwater samples were collected from select Geoprobe locations during the 2008 investigation. The depth to groundwater was observed to be approximately 10.5- to 12-feet bgs.

Of note is an oil sheen observed on the surface of the grab-groundwater sample collected from sample GS27. GS27 is located at the former ASTs on the western portion of the Site. The highest TPH concentrations in soil and methane concentrations in soil gas were detected at this former ASTs location.

2.5.1 TPH

The following summarizes TPH concentrations in grab-groundwater samples:

Sample ID	Date Sampled	TPH gas C6-C12[(a)] (ug/L)	TPH diesel C13-C22[(b)] (ug/L)	TPH motor oil C23-C44[(c)] (ug/L)	Total TPH C6-C44[(d)] (ug/L)
GS13	10/30/08	275	166	245	690
GS15	10/30/08	24.5	207	431	660
GS16	10/30/08	49.6	95.8	161.5	310
GS19	10/30/08	13.2	29.8	94	140
GS20	10/30/08	13.9	36.2	109.5	160
GS21	10/30/08	19	60.2	108.4	190
GS22	10/30/08	22.7	263.7	330.6	620
GS23	10/30/08	16.6	53.8	113.3	180
GS25	10/31/08	47.1	371	355	780
GS26	10/31/08	ND[(e)]	64	196.4	260
GS27	10/31/08	759	19,600	13,580	34,000
GS30	10/31/08	ND	14.7	84.1	98

(a) Sum of hydrocarbons classified to be in the carbon length range of 6 to 12.
(b) Sum of hydrocarbons classified to be in the carbon length range of 13 to 22.
(c) Sum of hydrocarbons classified to be in the carbon length range of 23 to 44.
(d) Sum of hydrocarbons classified to be in the carbon length range of 6 to 44.

(e) Not detected above laboratory reporting limit.

Table 8 presents a complete summary of all analytical results for TPH in groundwater. Detected concentrations expressed as TPH ($_{C6-C44}$) are also illustrated on Figure 8.

2.5.2 VOCs

The following presents the maximum detected VOC concentrations in grab-groundwater samples, the location at which the maximum concentration was detected, and the number of locations the VOC was detected. Additionally, the maximum VOC concentration is compared to the primary Maximum Contaminant Level (MCL) for drinking water, although underlying groundwater is classified as a de-designated use aquifer:

Location	# of Detects/ # of Locations	VOC	Max Detected Conc. (µg/L)	Primary MCL (µg/L)
GS27	1/12	Benzene	0.64	1
GS27	1/12	Ethylbenzene	1.1	300
GS27	2/12	Isopropylbenzene	15	none
GS27	1/12	Naphthalene	29	none
GS27	2/12	n-Butylbenzene	4.1	none
GS27	2/12	n-propylbenzene	16	none
GS25	1/12	MTBE	1.4	13
GS27	2/12	Sec-Butylbenzene	6.3	none
GS20	3/12	c-1,2-Dichloroethene	4.5	6
GS20	1/12	t-1,2-Dichloroethene	1.5	10
GS20	1/12	Trichloroethene	2.8	5

None of the detected VOCs exceed the primary MCL for drinking water. The majority of the VOCs and their maximum concentrations were detected at GS27, which is located at the former ASTs on the western portion of the Site. This former AST area is also where the highest TPH concentrations in soil and grab-groundwater were detected and the highest methane concentration detected in soil gas.

Table 9 presents a summary of all VOCs detected in groundwater. VOC concentrations are also depicted on Figure 6.

3.0 CONCLUSIONS

It is Pacific Edge's opinion that potential contaminant sources at the Site include the following:

- The historic ASTs and activities related to their operation.
- Release(s) of vehicle fluids and from salvage operations conducted at the Site by the current tenant or past tenants conducting similar activities.
- Off-site source(s) for some groundwater contaminants (such as PCE, MTBE, and gasoline).

The following discussion presents the rationale for the above conclusions.

3.1 SOIL

3.1.1 TPH

Total TPH (TPH $_{C6-C44}$) was detected above the laboratory reporting limit in forty-two (42) of sixty-five (65) soil samples. Review of the data suggests more than one (1) source and/or release of TPH at the Site, with the highest concentrations at or in close proximity of the former ASTs on the western portion of the Site.

Diesel (TPH $_{C13-C22}$) and motor oil (TPH $_{C23-44}$) comprise approximately 90% or greater of the total TPH ($_{C6-C44}$) detected in Site soils. Gasoline (TPH $_{C4-C12}$) concentrations were negligible compared to diesel and motor oil concentrations, with the exception of sample GS27 at 10-feet bgs where gasoline accounted for approximately 9% of the total TPH detected.

Diesel (TPH $_{C13-C22}$) and motor oil (TPH $_{C23-44}$) concentrations did not exceed the RWQCB's maximum screening levels for soil above a non-drinking water aquifer.

Soil sample GS27 at 10-feet bgs is the only sample that reported a gasoline (TPH $_{C4-C12}$) concentration (1,890 mg/kg) exceeding the RWQCB's maximum screening level of 1,000

mg/kg. Shallower soil samples collected at 1-foot and 5-feet bgs in GS27 showed negligible gasoline concentrations of 1.24 mg/kg and 0.22 mg/kg, respectively. Given that groundwater was observed to be at approximately 10.5-feet bgs and gasoline (TPH $_{C4-C12}$) was also detected in grab-groundwater samples across the Site, it is likely that the high gasoline concentration in soil at GS27 at 10-feet bgs is within the capillary fringe/smear zone and a result of gasoline in groundwater.

Site soils have also been impacted with total TPH $_{C6-C44}$ concentrations above the unrestricted reuse criterion of 1,000 mg/kg at several locations in addition to the former ASTs location. Based on Site data, it is reasonable to conclude that sources for TPH in soil include the former ASTs on the western portion of the Site and unrelated releases most likely caused by the salvaging of automobiles, boats, and recreational vehicles by the current or past tenant conducting similar activities.

3.1.2 VOCs

A total of fifty (50) soil samples have been analyzed for VOCs. Low VOC concentrations were detected in eighteen (18) of the fifty (50) soil samples. All detected VOCs are concomitant with TPH, with benzene and toluene the only VOCs detected in more than one (1) sample. Benzene was detected in three (3) samples and highest concentration detected was 0.11 mg/kg in GS27 at 10-feet bgs. Toluene was detected in fifteen (15) samples and the highest concentration detected was 0.0086 mg/kg in GS13 at 5-feet bgs.

All maximum detected VOC concentrations were significantly less than their respective industrial PRG value, indicating no further action under the current industrial use is warranted with regard to VOCs in soil.

3.1.3 PAHs

A total of twenty (20) soil samples have been analyzed for PAHs. Low concentrations of several PAHs were detected in two (2) soil samples, GS20 at 1-foot bgs and GS27 at 10-feet bgs.

All maximum detected PAH concentrations were significantly less than their respective industrial PRG value, indicating no further action under the current industrial use is warranted with regard to PAHs in soil.

3.1.4 Metals

Arsenic, cadmium, and lead were identified as potential metals of concern based on the 2007 investigation results.

3.1.4.1 Arsenic

Sixty-four (64) samples were analyzed for total arsenic with all samples having concentrations that exceed the industrial CHHSL value of 0.24 mg/kg. Published human health screening levels are frequently lower than natural background levels for arsenic. Arsenic is not considered a chemical of potential concern requiring action if ambient or background concentrations exceed published health screening levels.

Detected arsenic concentrations ranged from 1.74 mg/kg to 105 mg/kg. In fifty-nine (59) samples the arsenic concentration ranged from 1.74 mg/kg to 9.05 mg/kg and this range indicates a distribution that likely represents Site background levels for arsenic. The remaining five (5) samples are considered to have elevated arsenic concentrations above the presumed background/ambient range. Elevated arsenic concentrations ranged from 12 mg/kg to 105 mg/kg.

3.1.4.2 Cadmium

Seventy-two (72) samples were analyzed for total cadmium. Cadmium was detected in forty-five (45) samples and ranged in concentration from 0.56 mg/kg to 11.7 mg/kg.

Cadmium exceeded its industrial CHHSL at three (3) sample locations.

3.1.4.3 Lead

Eighty-three (83) samples were analyzed for total lead and ten (10) samples were analyzed for soluble lead. Total lead did not exceed its industrial CHHSL value of 3,500 mg/kg. Total lead

exceeded its TTLC value of 1,000 mg/kg at four (4) sample locations. Of the ten (10) samples tested for soluble lead, eight (8) samples exceeded the STLC value of 5 mg/kg. Thirty-six (36) additional samples, which were not tested for soluble lead, had total lead concentrations exceeding 50 mg/kg, or 10 times the STLC.

3.1.5 PCBs

Fifty-seven (57) samples were analyzed for PCBs. Aroclor-1248 and Aroclor-1254 were the only PCBs detected. Aroclor-1248 and Aroclor-1254 were detected in twenty-one (21) samples, with concentrations exceeding the industrial CHHSL value of 0.3 mg/kg in eleven (11) samples.

3.2 SOIL GAS

Twenty (20) soil gas probes were installed at 5-feet bgs to collect shallow soil gas samples for VOC and methane analysis.

3.2.1.1 VOCs

Several VOCs were sporadically detected at the Site. The detected VOCs are concomitant with TPH and fuels. Benzene is the only VOC detected above its industrial CHHSL value for shallow soils.

The industrial CHHSL value represents a shallow soil gas concentration that is protective of indoor air by intrusion. Since buildings are not currently present at the Site, no further action is deemed warranted with respect to soil gas. If buildings are constructed at the Site in the future, additional soil gas investigation or appropriate mitigation measures should be considered.

3.2.1.2 Methane

Methane was detected at three (3) soil gas sample locations. Two (2) locations, GS16 and GS25 indicated low methane concentrations of 10.8 ppmv and 13.5 ppmv. At location GS27 where high TPH concentrations in soil were detected the methane concentration was 7,580 ppmv.

Per the City of Los Angeles Methane Code, a methane concentration of 7,580 ppmv would require further investigation and possible mitigation measures for new building construction.

Since buildings are not currently present at the Site, no further action is deemed warranted with respect to methane. Additionally, removal of TPH impacted soil at in the vicinity of the former ASTs near GS9 and GS27 would likely mitigate methane concentrations below levels of concern for construction of buildings over the former ASTs area.

3.3 GRAB-GROUNDWATER

Twelve (12) grab-groundwater were collected from randomly selected Geoprobe borings and analyzed for TPH and VOCs.

3.3.1 TPH

Total TPH (TPH $_{C6-C44}$) was detected in all samples at relatively low concentrations with the exception of GS27 where the total TPH concentration of 34,000 ug/L was detected. GS27 is located at the former ASTs on the western portion of the Site. A free product sheen was observed on the grab-groundwater sample collected GS27. Based on the elevated total TPH concentration and a sheen observed on sample GS27, the potential exists for a free floating product plume at the former ASTs.

With the exception of grab-groundwater sample GS13, diesel (TPH $_{C13-C22}$) and motor oil (TPH $_{C23-C44}$) were the predominant TPH contaminant.

At GS13, gasoline was the predominant portion of total TPH (40% gasoline), with diesel (24%) and motor oil (36%) comprising the remainder of the total TPH detected. This distribution is noticeably different than other locations where diesel and motor oil comprised 84% to 96% of the total TPH detected. Total TPH was not detected in soil samples collected at 5-feet and 10-feet bgs in GS13. Gasoline (TPH $_{C6-C12}$) was not detected in the 5-foot soil sample at GS13. A low gasoline concentration of 0.31 mg/kg was detected in soil at the 10-foot depth in GS13. This sample is likely within the capillary fringe/smear zone.

The TPH carbon distribution in grab-groundwater samples suggests that gasoline is the predominant TPH contaminant at GS13 and a mix of diesel and motor oil is the predominant

contaminants at all other locations. Given that 1) total TPH concentrations in soil at GS13 were not detected, 2) gasoline (at a low concentration) was only detected in the soil sample collected at 10-feet bgs, and 3) GS13 is located at the northeastern property boundary, it is possible that an off-site source is contributing to groundwater contamination at the Site. On-site sources for TPH groundwater contamination include the former ASTs on the western portion of the Site and unrelated releases most likely caused by the salvaging of automobiles, boats, and recreational vehicles by the current or past tenant conducting similar activities.

3.3.2 VOCs

VOCs were not detected in the majority of grab-groundwater samples. Several VOCs concomitant with TPH and fuels were detected at low concentrations in samples collected at the former ASTs on the western portion of the Site. These VOCs were detected at concentrations below their respective MCL for drinking water. Of particular note is MTBE which was detected at a low concentration of 1.4 ug/L grab-groundwater sample GS25. MTBE was not detected in any other groundwater sample or any soil sample. This suggests a relatively recent release (post ASTs) and could be the result of current or past salvage operations at the Site or an off-site release to the west.

Non TPH related VOCs detected include trichloroethene (TCE), c-1,2-dichloroethene (cis-DCE, and t-1,2-dischloroethene (trans-DCE). These VOCs were also detected at concentrations below their respective MCL for drinking water. These VOCs were detected in grab-groundwater sample GS20 only which is located on the southeastern portion of the Site, with the exception of cis-DCE which was also detected at low concentrations in sample GS19 and GS20. TCE, cis-DCE, and trans-DCE were not detected in any soil sample. The decomposition of TCE in the environment results in the daughter products cis-DCE and trans-DCE, and this is likely the case at the Site. Therefore, the source of TCE in one (1) groundwater sample near the southeastern Site border and the absence of TCE, cis-DCE, and trans-DCE in Site soil samples suggest a potential off-site source.

3.4 CONTAMINANT MANAGEMENT MEASURES

Figure 10 (upper 2-feet of soil) and Figure 11 (greater than 2-feet bgs) illustrate the estimated soil areas impacted by contaminants that exceed the following screening levels. As with any subsurface investigation these estimated areas can expand or shrink and result in other conclusions by conducting additional sampling to better define the vertical and horizontal extent.

- Total TPH (TPH $_{C6-C44}$) concentrations above the 1,000 mg/kg unrestricted reuse criterion.
- Lead concentrations that exceed the TTLC or STLC values.
- PCB concentrations that exceed the industrial CHHSL value.
- Arsenic concentrations that exceed the industrial CHHSL value and presumed maximum background concentration.
- Cadmium concentrations that exceed the industrial CHHSL value.

Disturbance or excavation of TPH impacted areas (Figures 10 and 11) should not be reused. If this TPH soil is excavated in the future, it should be managed for disposal at an appropriate landfill or recycling facility.

Disturbance or excavation of lead impacted areas (Figures 10 and 11) should not be reused due to existing hazardous concentrations. If these lead impacted soil areas are excavated, soils should be managed as a hazardous waste in accordance with all appropriate regulations.

PCB, arsenic, and cadmium impacted areas shown on Figures 10 and 11 exceed their respective industrial CHHSL values. The industrial CHHSL value is the maximum concentration in soil that is considered protective of human health under an industrial setting. Exceeding an industrial CHHSL value does not mean that an unacceptable human health risk exists, but that further action is warranted. Further action can include additional sampling, a site specific risk assessment, or mitigation. Therefore, appropriate actions for the identified areas may consist of some or all of the following: 1) a risk assessment to determine the site specific potential risk to

human health, or 2) covering the impacted area to eliminate the potential exposure pathway, or 3) removal of impacted soil from the Site.

If future Site development includes construction of building, soil gas and methane mitigation measures may be necessary on portions of the Site. If buildings are constructed on the Site, further assessment of soil gas and methane conditions should be undertaken at that time to evaluate the need for mitigation measures.

Possible free floating product on groundwater may be present in the area of the former ASTs. Installation of groundwater monitoring wells is one method to evaluate if free floating product is present. Groundwater monitoring wells could also be installed to monitor contaminant levels at the Site and assess the potential for off-site sources contributing to groundwater contamination.

The presence of the oil well at the Site will present special constraints for construction of any buildings near or over the well in the future. The regulatory requirements will include, but may not be limited to, those defined by the California Division of Oil, Gas, and Geothermal Resources.

4.0 REFERENCES

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2. State of California, The Resources Agency, Department of Water Resources, Southern District, September 2001. *Watermaster Service in the West Coast Basin, Los Angeles County*.

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5. California Environmental Protection Agency, January 2005. *Use of California Human Health Screening Levels (CHHSL) in Evaluation of Contaminated Properties.*

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8. City of Los Angeles Department of Building and Safety, www.ladbs.org/rpt_code_pub/methane.htm. *Methane Mitigation Standards.*

9. State of California, January 23, 2009. Maximum Contaminant Levels (MCLs), *California Code of Regulations, Title 22, Division 4, Chapter 15.*

10. State of California, July 20, 2005. TTLC and STLC, *California Code of Regulations, Title 22, Division 4.5, Chapter 11. Article 3, Table II*

(949) 470-1937; (949) 470-0943 (FAX)

5.0 LIMITATIONS

This document is prepared for the sole use and benefit of the Port of Los Angeles (POLA). Neither this report, nor any information contained herein, shall be used or relied upon by any person other than the POLA. The responsibility for making any disclosures or reports to any third party and for taking a corrective, remedial, or mitigative action shall be solely that of the POLA.

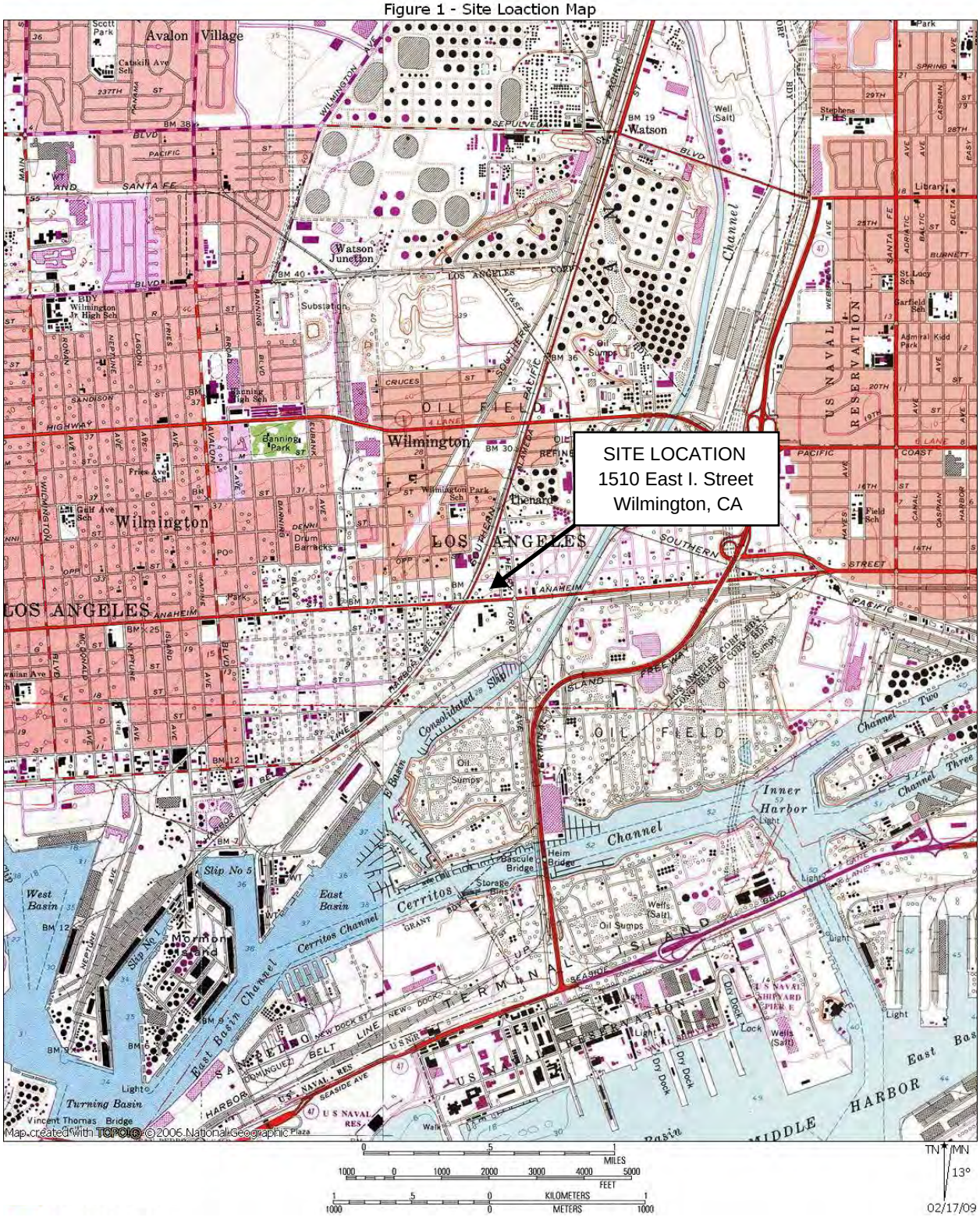
Our judgments and conclusions in this report are based upon the analytical data and information acquired during this investigation and our experiences on similar projects. It is possible that variations in surface and subsurface conditions exist beyond the points explored in this limited soil investigation. Further, changes in subsurface conditions found could occur at some time in the future due to variations in rainfall, temperature, land use (both on-site and off-site), or other factors. These changes can affect the behavior of materials and contaminants in soil and groundwater.

The data obtained from the collected samples does not preclude the presence of other chemical materials at the site that may or may not be considered chemical of concern. Further, changes in applicable regulatory standards periodically occur as a result of legislative actions and/or studies. This may result in the findings of this report being invalidated, wholly or in part, by changes beyond our control.

Opinions and judgments expressed within this report are bases upon our understanding and interpretation of current regulatory standards and should not be used as legal opinions. The services provided for this project have been performed in accordance with the Scope of Work and the contract between Pacific Edge Engineering, Inc. and the POLA. The services performed have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in Southern California. Pacific Edge Engineering, Inc. makes no warranty, expressed or implied.

Figures

Figure 1 - Site Loaction Map



LEGEND

- △ = Oil Well
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- ⊕ = Soil Sample Location - Oct 2008
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- ◍ = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
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- — — — = Former Concrete Dyke
- AST = Former Aboveground oil storage tank

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FIGURE 2
SITE PLAN AND BORING LOCATIONS

DATE:	12/04/08	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
FILE NAME:	2659/PD15/FIGURES/FIG2		

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- (12) = Lot Number
- — — — = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- 0.5' 1.0' 2.5' 5.0' 10.0' = Total TPH (C6-C44) in soil (mg/kg) at 0.5', 1', 2.5', 5' and 10'.
- NS = Indicates not sampled at this depth
- = TPH (C6-C44) concentration above 1,000 mg/kg.

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FIGURE 3
TPH (C6-C44) CONCENTRATIONS
IN SOIL (mg/kg)

DATE:	1/27/09	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
FILE NAME:	2659/PD15/FIGURES/FIG3		

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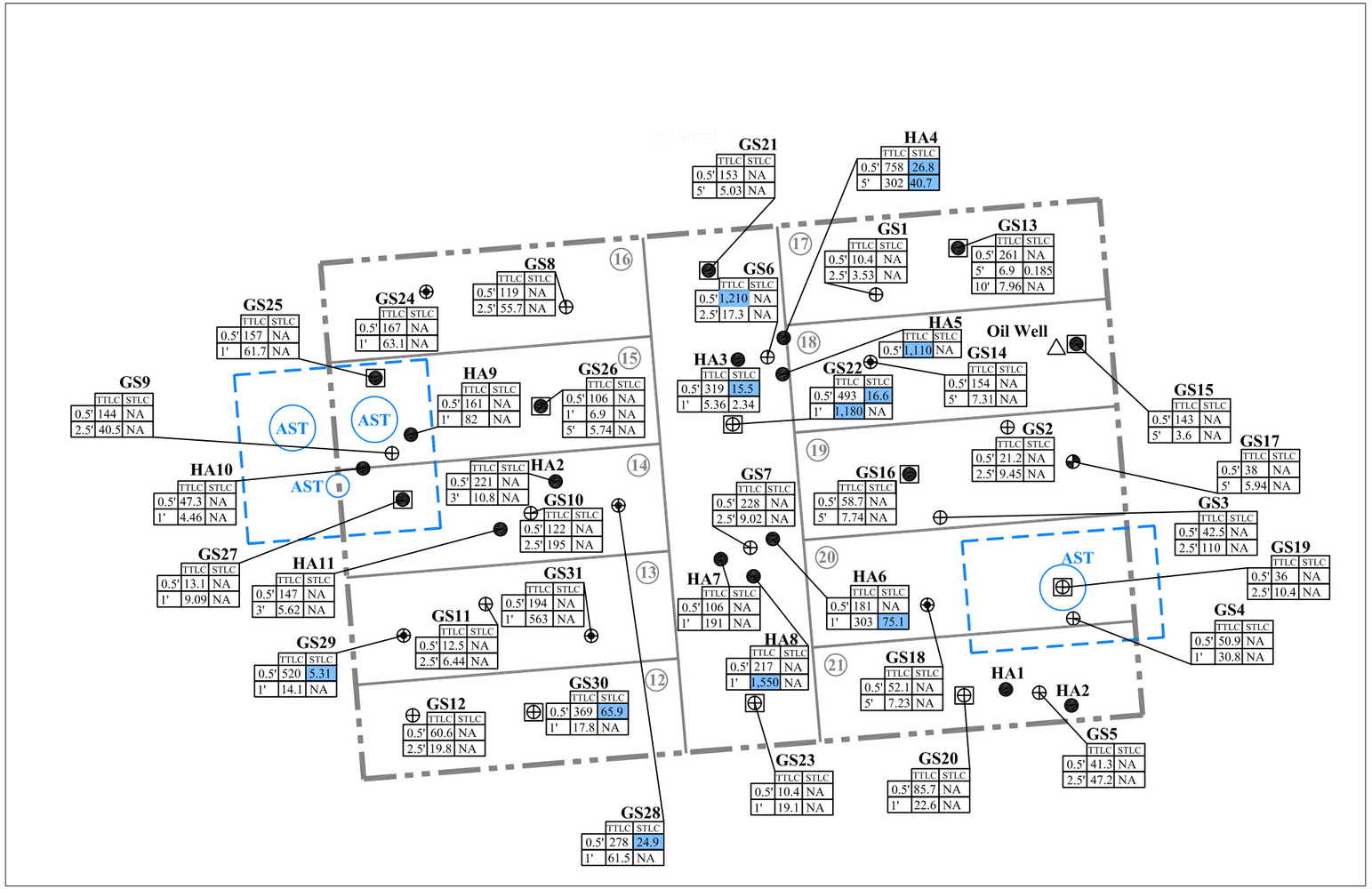

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- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- TTLC STLC 0.5' 758 26.8 = 758 mg/kg & 26.8 mg/L at 0.5' bgs .
- NA = Not Analyzed
- = Lead concentration above the TTLC or STLC

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FIGURE 4
LEAD CONCENTRATIONS IN SOIL

DATE:	1/27/09	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
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FILE NAME:	2659/PD15/FIGURES/FIG3		

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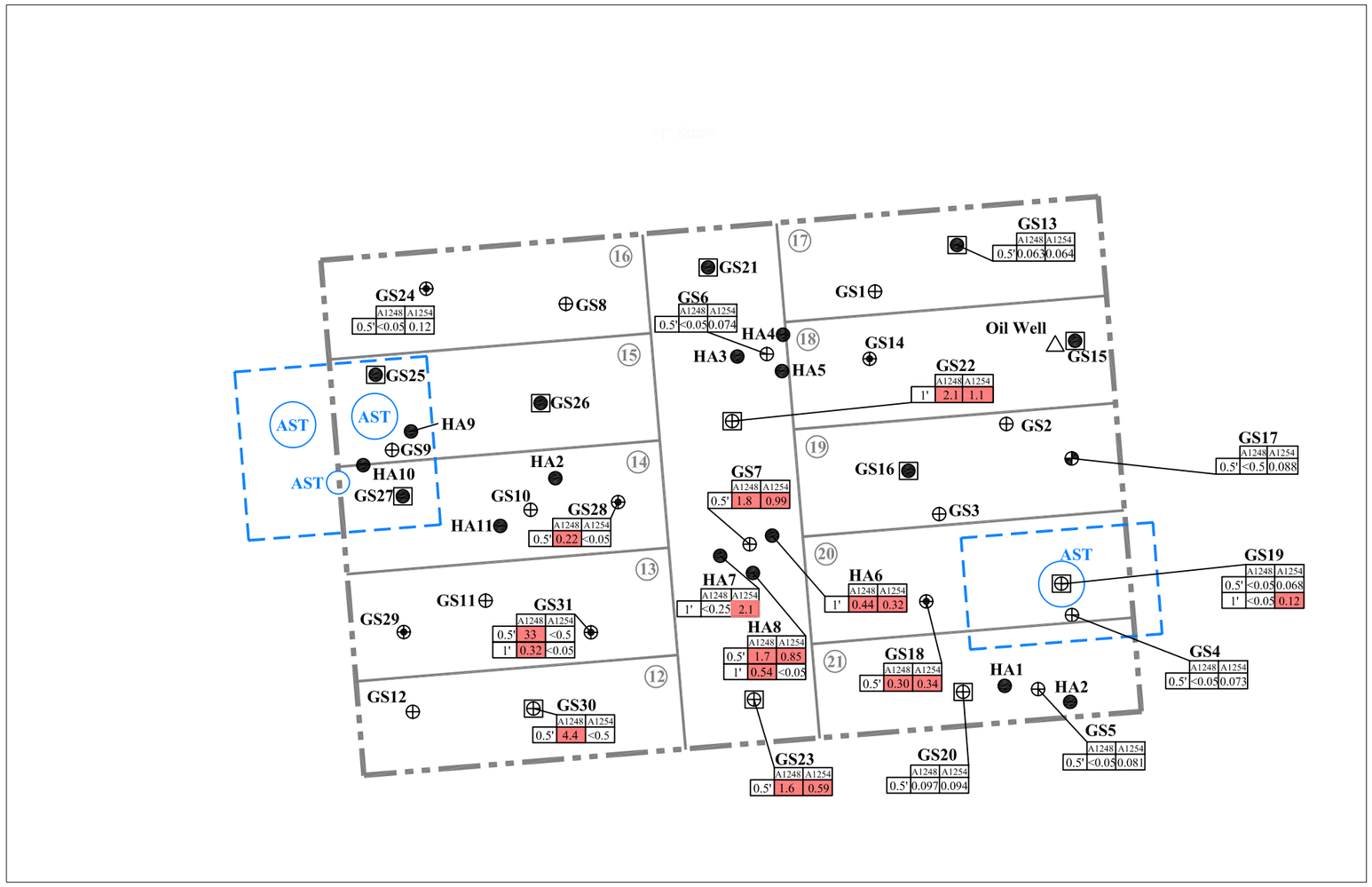

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- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- 1' | A1248 2.1 | A1254 1.1 = Aroclor-1248 concentration of 2.1 mg/kg & Aroclor-1254 concentration of 1.1 mg/kg at 1'.
- NA = Not Analyzed
- = PCB concentration above the Industrial CHHSL value of 0.3 mg/kg.

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FIGURE 5
PCB CONCENTRATIONS IN SOIL

DATE:	1/27/09	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
FILE NAME:	2659/PD15/FIGURES/FIG3		

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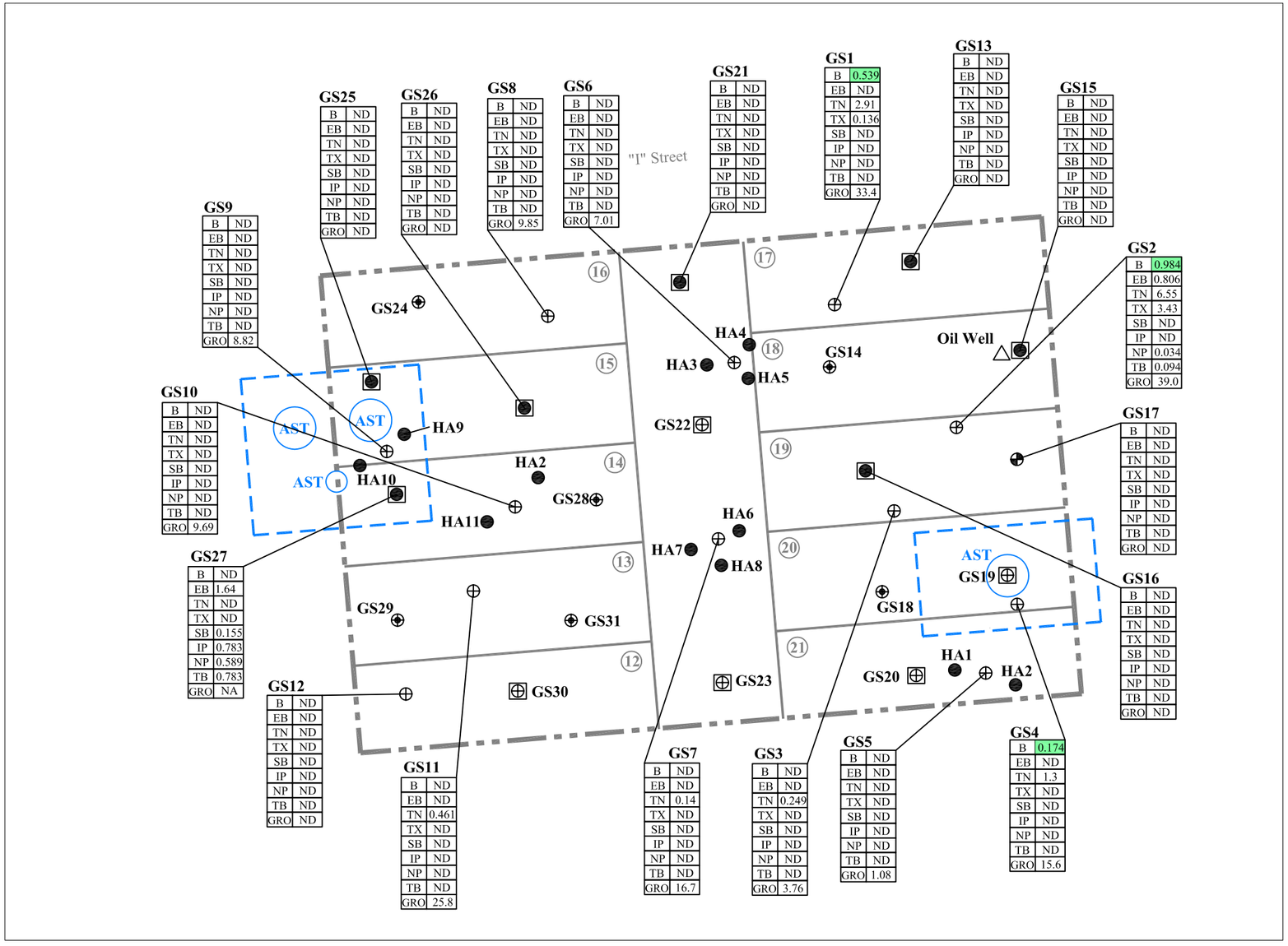

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- ⊕ = Soil & Groundwater Sample Location - Oct 2008
- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- NA = Not Analyzed
- ND = Not Detected
- = Benzene concentration above the Industrial CHHSL value of 0.122 mg/L for shallow soil gas.
- B = Benzene
- EB = Ethlybenzene
- TN = Toluene
- TX = Total Xylenes
- SB = sec-Butylbenzene
- IP = Isopropylbenzene
- NP = n-Propylbenzene
- TB = 1,3,5-Trimethylbenzene
- GRO = Gasoline Range Organics (note: GRO only analyzed for samples GS1 through GS12)

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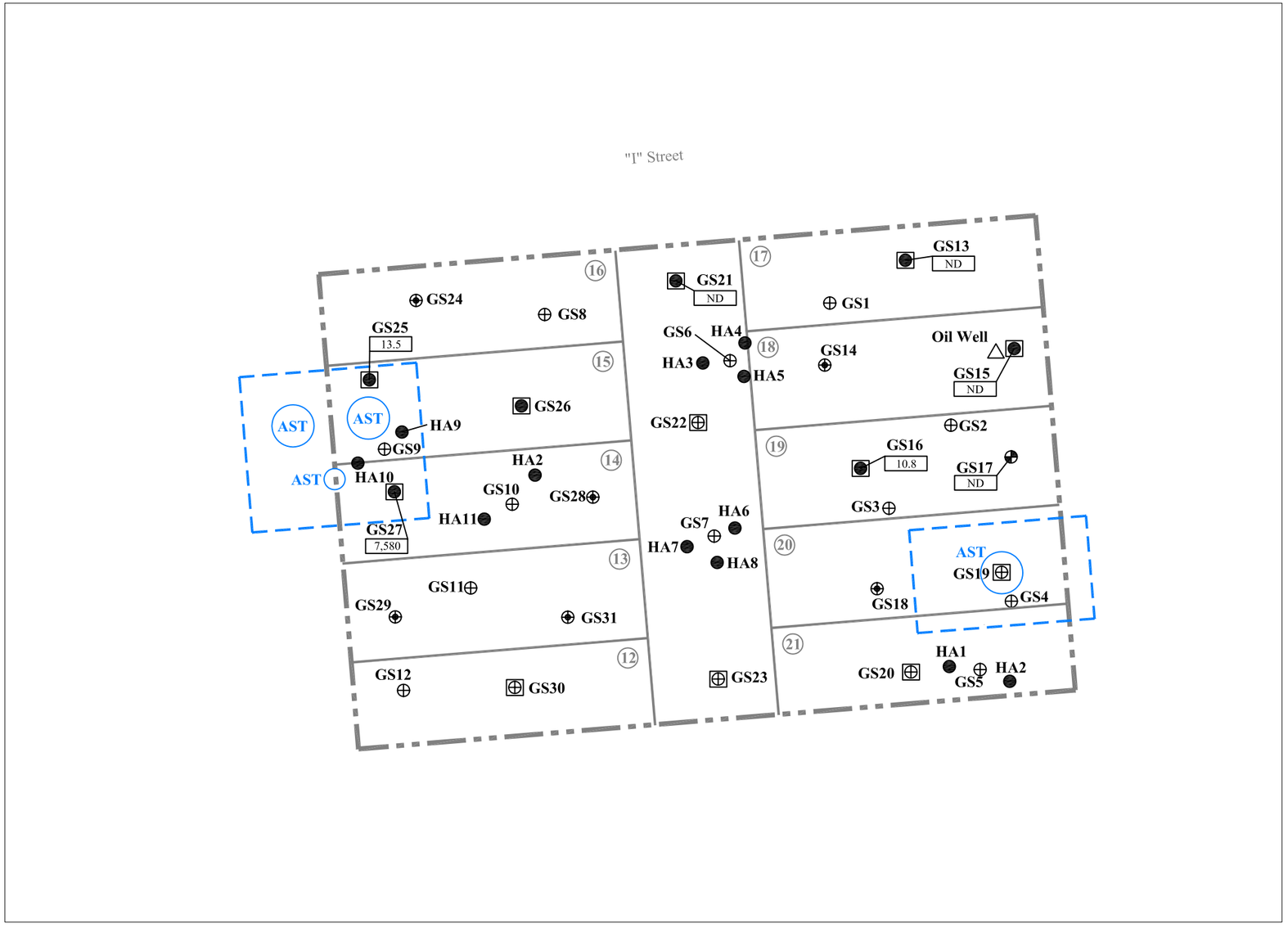
FIGURE 6
VOC CONCENTRATIONS IN
SHALLOW SOIL GAS (5-FEET BGS)

DATE:	1/27/09	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
FILE NAME:	2659/PD15/FIGURES/FIG3		



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- ⊞ = Soil & Groundwater Sample Location - Oct 2008
- ⊛ = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- ND = Not Detected
- 10.8 = Methane concentrations in parts per million by volume (ppmv).

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FIGURE 7
METHANE CONCENTRATIONS IN
SHALLOW SOIL GAS (5-FEET BGS)

DATE:	1/27/09	SCALE:	~1" = 50'
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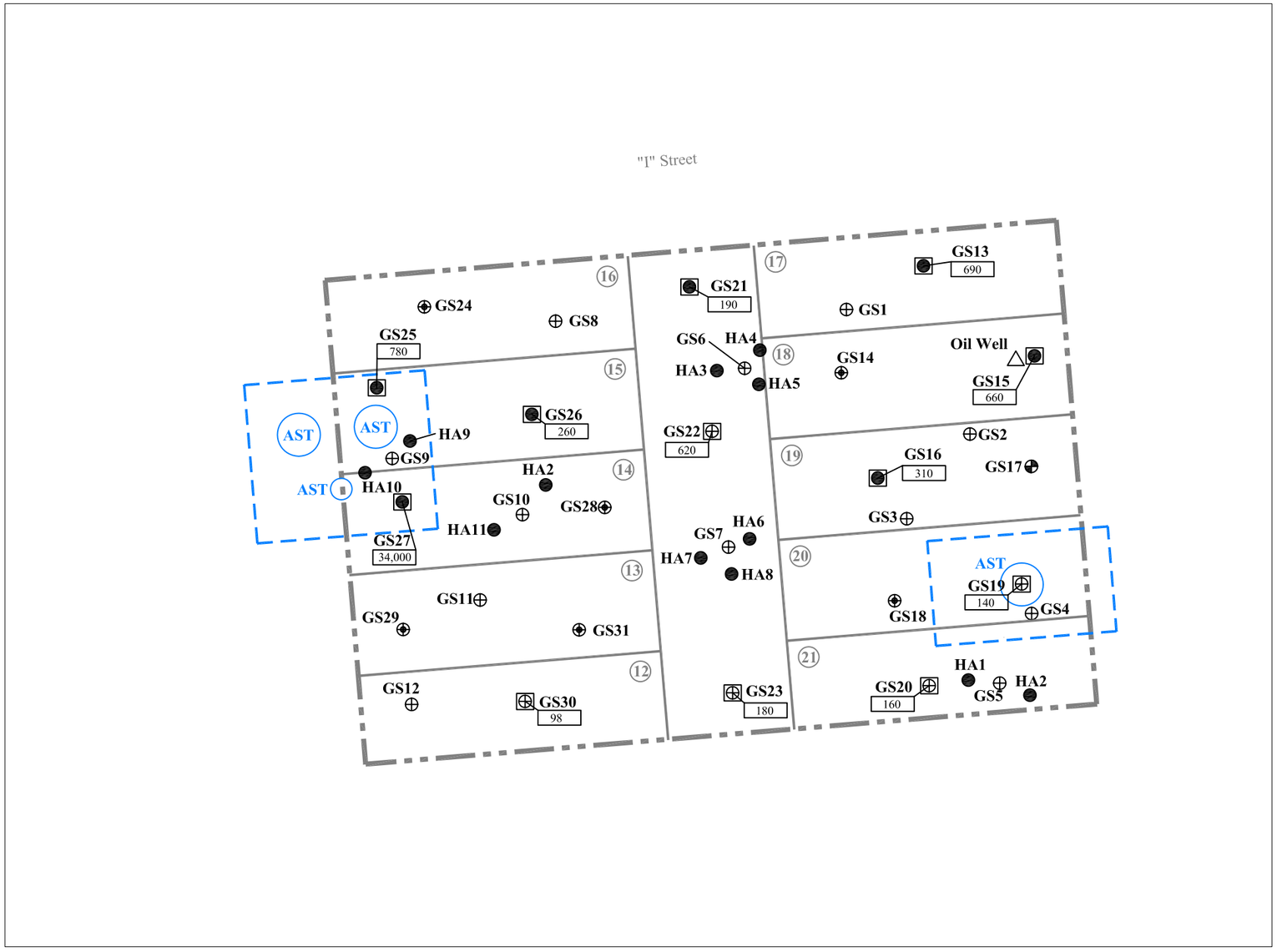
CHECKED BY:	CAS	ADP#:	XXXXXX
FILE NAME:	2659/PD15/FIGURES/FIG3		



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- ⊕ = Soil & Groundwater Sample Location - Oct 2008
- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- ND = Not Detected
- 140 = Total TPH concentrations in micrograms per liter (ug/l).

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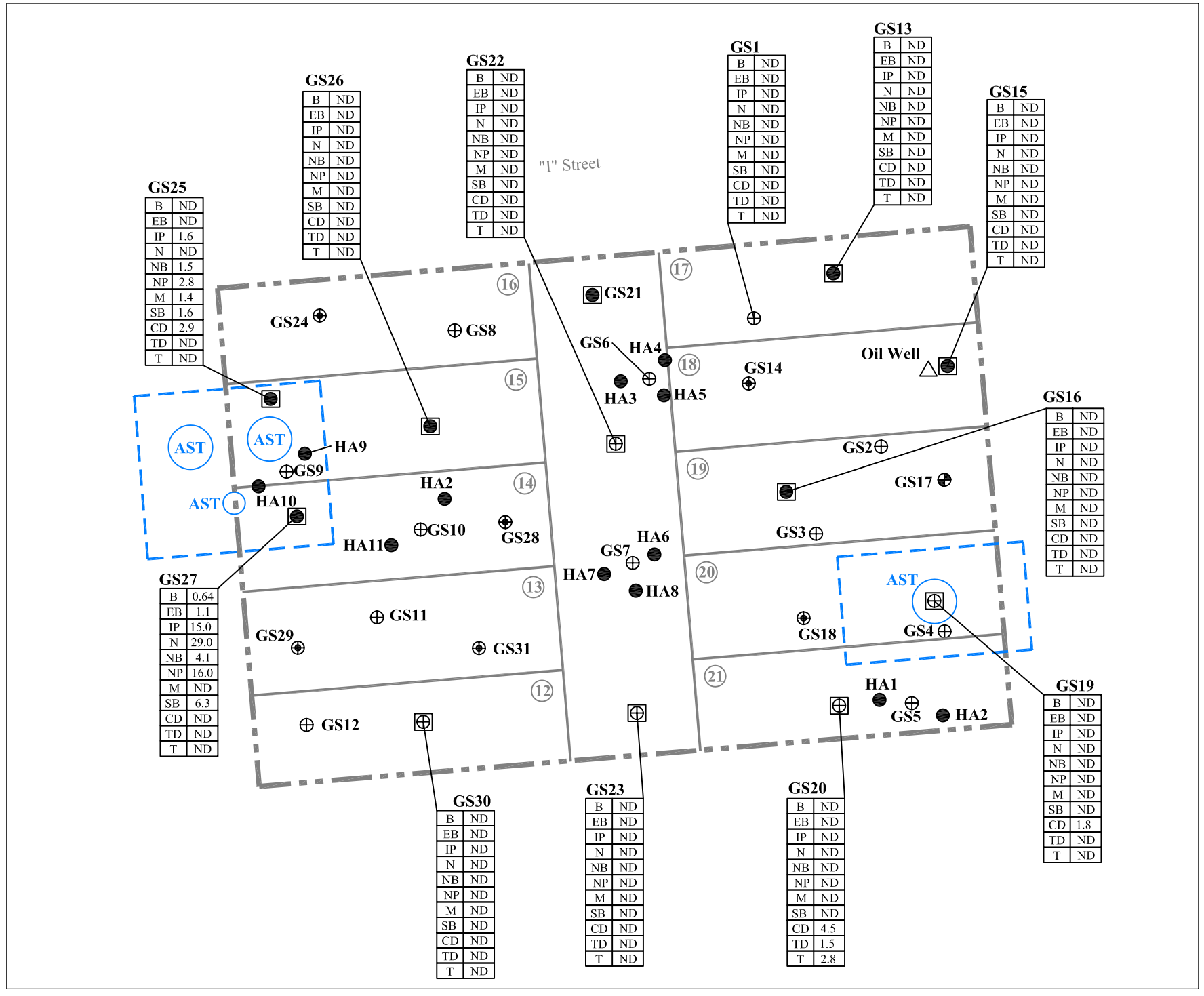
FIGURE 8
TOTAL TPH CONCENTRATIONS IN GROUNDWATER (ug/l)

DATE:	1/27/09	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
FILE NAME:	2659/PD15/FIGURES/FIG3		



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- ⊕ = Soil & Groundwater Sample Location - Oct 2008
- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- ND = Not Detected
- B = Benzene
- EB = Ethlybenzene
- IP = Isopropylbenzene
- N = Napthalene
- NB = n-Butylbenzene
- NP = n-Propylbenzene
- M = MTBE
- SB = sec-Butylbenzene
- CD = c-1,2-Dichloroethene
- TD = t-1,2-Dichloroethene
- T = Trichloroethene

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FIGURE 9
VOC CONCENTRATIONS IN GROUNDWATER (ug/l)

DATE:	1/27/09	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
FILE NAME:	2659/PD15/FIGURES/FIG3		

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- ▣ = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- = Estimated area with PCB concentrations greater than Industrial CHHSL of 0.3 mg/kg.
- = Estimated area with TPH (C6-C44) concentrations greater than 1,000 mg/kg.
- = Estimated area with arsenic concentrations above presumed background and Industrial CHHSL.
- = Estimated area with cadmium concentrations at or above Indistrial CHHSL of 7.5 mg/kg.
- = Estimated area with lead concentrations greater than the TTLC or STLC.

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FIGURE 10
ESTIMATED AREAS WITH
SOIL IMPACTS (UPPER 2 FEET)

DATE:	12/04/08	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
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- ▣ = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- = Estimated area with PCB concentrations greater than Industrial CHHSL of 0.3 mg/kg.
- = Estimated area with TPH (C6-C44) concentrations greater than 1,000 mg/kg.
- = Estimated area with arsenic concentrations above presumed background & Industrial CHHSL.
- = Estimated area with cadmium concentrations at or above Indistrial CHHSL of 7.5 mg/kg.
- = Estimated area with lead concentrations greater than the TTLC or STLC.

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FIGURE 11
ESTIMATED AREAS WITH
SOIL IMPACTS (>2 FEET)

DATE:	12/04/08	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
FILE NAME:	2659/PD15/FIGURES/FIG2		

Tables

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Sample	Depth	Date	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total
GS1	0.5	10/12/2007		<	<	0.25	0.56	0.28	0.28	0.15	0.28	0.16	1.9	0.24	<	<	<	<		< 5.0
GS1	2.5	10/12/2007		<	<	0.3	1.0	0.4	0.47	0.29	0.35	0.3	0.76	0.2	<	<	<	<		< 5.0
GS2	0.5	10/12/2007		<	<	<	<	<	1.1	1.7	9.5	12.0	28.0	61.0	93.0	78.0	65.0	72.0		420.0
GS2	2.5	10/12/2007		<	<	1.5	1.1	0.83	1.2	0.64	2.0	1.6	13.0	5.8	7.9	6.2	4.4	5.2		51.0
GS3	0.5	10/12/2007		<	<	0.45	0.22	0.13	0.79	0.5	2.5	2.5	16.0	18.0	34.0	29.0	17.0	28.0		150.0
GS3	2.5	10/12/2007		<	<	<	<	3.2	12.0	23.0	46.0	55.0	91.0	200.0	270.0	200.0	210.0	170.0		**1,300.0**
GS4	0.5	10/12/2007		<	<	0.45	0.95	1.1	1.8	1.8	3.1	5.2	15.0	19.0	32.0	26.0	19.0	30.0		160.0
GS4	2.5	10/12/2007		<	<	0.22	0.56	0.041	0.52	0.7	1.7	1.7	7.4	4.2	7.3	3.7	3.0	4.4		35.0
GS5	0.5	10/12/2007		<	<	0.36	0.89	<	1.2	2.9	6.3	7.7	25.0	39.0	66.0	67.0	51.0	53.0		320.0
GS5	2.5	10/12/2007		<	<	0.1	0.13	0.36	2.0	3.2	5.2	5.2	10.0	12.0	14.0	9.3	7.6	10.0		79.0
GS6	0.5	10/12/2007		<	<	<	<	<	4.7	33.0	92.0	160.0	300.0	770.0	**1,000.0**	840.0	670.0	520.0		**4,400.0**
GS6	2.5	10/12/2007		<	<	0.38	0.1	0.075	0.78	0.57	3.1	3.2	18.0	16.0	18.0	11.0	9.5	11.0		92.0
GS7	0.5	10/12/2007		<	<	<	<	14.0	59.0	96.0	190.0	370.0	650.0	**2,100.0**	**3,600.0**	**2,300.0**	**2,100.0**	**1,800.0**		**13,000.0**
GS7	2.5	10/12/2007		<	<	<	<	0.41	0.37	0.22	0.17	0.87	2.2	2.3	1.8	0.28	<	<		8.6
GS8	0.5	10/12/2007		<	<	<	<	<	7.8	22.0	55.0	72.0	130.0	500.0	990.0	900.0	**1,100.0**	980.0		**4,700.0**
GS8	2.5	10/12/2007		<	<	360.0	160.0	78.0	160.0	180.0	350.0	250.0	400.0	720.0	910.0	**1,300.0**	950.0	900.0		**6,700.0**
GS9	0.5	10/12/2007		<	<	<	4.4	68.0	220.0	440.0	680.0	680.0	960.0	**2,100.0**	**2,500.0**	**1,800.0**	**1,700.0**	**1,400.0**		**13,000.0**
GS9	2.5	10/12/2007		<	16.0	120.0	350.0	930.0	**1,600.0**	**2,200.0**	**2,600.0**	**2,300.0**	**2,400.0**	**4,600.0**	**5,000.0**	**3,300.0**	**2,100.0**	**2,200.0**		**30,000.0**
GS10	0.5	10/12/2007		<	<	<	1.4	3.5	6.1	4.6	10.0	14.0	24.0	51.0	87.0	56.0	34.0	57.0		350.0
GS10	2.5	10/12/2007		<	<	<	<	<	16.0	45.0	110.0	180.0	330.0	760.0	**1,100.0**	720.0	530.0	390.0		**4,100.0**
GS11	0.5	10/12/2007		<	<	0.32	0.89	0.53	0.8	1.0	3.0	2.8	9.2	11.0	15.0	13.0	12.0	11.0		81.0
GS11	2.5	10/12/2007		<	<	0.13	0.65	0.46	1.2	0.27	0.4	0.25	2.1	0.12	<	<	<	<		5.6
GS12	0.5	10/12/2007		<	<	<	<	0.25	1.5	3.9	6.0	12.0	20.0	28.0	43.0	26.0	21.0	31.0		190.0
GS12	2.5	10/12/2007		<	<	0.62	1.9	2.1	2.8	3.5	8.8	15.0	34.0	53.0	64.0	41.0	8.3	19.0		250.0

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Sample	Depth	Date	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total
GS13	5	10/30/2008	<	<	<	<	<	<	<	<	<	<	<	0.35	<	<	<	<	< 5.0	
GS13	10	10/30/2008	<	<	<	<	0.31	0.26	0.67	0.13	0.11	0.11	0.084	2.7	<	<	<	<	< 5.0	
GS14	5	10/30/2008	<	<	<	<	0.28	0.39	0.59	0.25	0.18	0.2	0.19	1.7	<	<	<	<	< 5.0	
GS14	9.5	10/30/2008	<	<	<	<	<	0.3	1.0	1.1	1.7	2.2	3.2	13.0	14.0	12.0	14.0	8.3	70.0	
GS15	5	10/30/2008	<	<	<	<	0.17	0.3	0.49	0.11	0.19	0.22	0.27	0.72	<	<	<	<	< 5.0	
GS15	10	10/30/2008	<	<	<	<	0.62	0.24	1.5	0.14	0.15	0.16	0.12	8.4	<	<	<	<	11.0	
GS16	5	10/30/2008	<	<	<	<	<	0.06	0.23	<	<	<	0.044	0.58	<	<	<	<	< 5.0	
GS16	10	10/30/2008	<	<	<	<	0.44	0.3	0.86	0.12	0.14	0.11	0.14	4.5	<	<	<	<	6.6	
GS17	5	10/30/2008	<	<	<	<	0.12	0.13	0.32	<	<	<	0.09	0.85	<	<	<	<	< 5.0	
GS17	10	10/30/2008	<	<	<	<	0.27	0.18	0.45	0.13	0.15	0.39	0.22	1.4	<	<	<	<	< 5.0	
GS18	5	10/30/2008	<	<	<	<	<	0.05	0.29	0.13	0.087	0.006	<	0.55	<	<	<	<	< 5.0	
GS18	10	10/30/2008	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	< 5.0	
GS19	1	10/30/2008	<	<	<	<	0.27	0.99	1.5	1.6	3.0	3.8	5.9	22.0	26.0	21.0	34.0	15.0	130.0	
GS19	5	10/30/2008	<	<	<	<	<	0.19	0.31	<	<	<	<	1.3	<	<	<	<	< 5.0	
GS19	10	10/30/2008	<	<	<	<	0.46	0.61	1.7	0.19	0.19	0.17	0.14	6.2	<	<	<	<	9.6	
GS20	5	10/30/2008	<	<	<	<	0.73	0.32	1.7	0.17	<	<	0.064	9.7	<	<	<	<	13.0	
GS20	10	10/30/2008	<	<	<	<	0.36	0.34	0.55	0.18	0.17	0.42	0.82	1.0	<	<	<	<	< 5.0	
GS21	5	10/30/2008	<	<	<	<	0.16	0.22	0.5	0.27	0.2	0.32	0.31	0.34	<	<	<	<	< 5.0	
GS21	10	10/30/2008	<	<	<	<	0.3	0.26	1.0	0.27	0.2	0.17	0.25	3.5	<	<	<	<	5.9	
GS22	5	10/30/2008	<	<	<	0.034	0.12	0.21	0.4	0.17	0.42	0.95	4.3	2.6	1.6	0.096	<	<	11.0	
GS22	10	10/30/2008	<	<	<	<	0.2	0.27	0.56	0.37	0.82	0.17	8.0	0.1	<	<	<	<	10.0	
GS23	5	10/30/2008	<	<	<	<	<	<	<	<	<	<	2.6	<	<	<	<	<	< 5.0	
GS23	10	10/30/2008	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	< 5.0	
GS24	5	10/31/2008	<	<	0.29	0.19	0.13	0.23	0.51	0.32	0.61	1.3	1.4	6.0	3.1	1.9	3.2	2.8	22.0	

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Sample	Depth	Date	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total
GS24	10	10/31/2008	<	<	<	<	<	0.044	0.2	0.095	0.11	0.34	0.83	0.57	<	<	<	<	< 5.0	
GS25	1	10/31/2008	<	<	<	<	3.8	53.0	200.0	390.0	640.0	950.0	960.0	**2,600.0**	**2,700.0**	**2,100.0**	**2,100.0**	**1,500.0**	**14,000.0**	
GS25	5	10/31/2008	<	<	<	<	<	<	<	<	<	<	0.18	0.28	<	<	<	<	< 5.0	
GS25	10	10/31/2008	<	<	<	<	0.36	0.18	0.72	0.06	0.1	0.39	0.4	4.3	<	<	<	<	6.5	
GS26	5	10/31/2008	<	<	<	0.9	1.0	0.52	1.5	0.27	0.21	0.21	0.21	4.3	0.17	<	<	<	9.3	
GS26	10	10/31/2008	<	<	<	1.5	0.94	0.5	1.0	0.32	0.22	0.22	0.19	1.6	0.6	<	<	<	7.1	
GS27	1	10/31/2008	<	<	0.54	0.42	0.28	0.65	1.5	3.1	6.1	8.9	12.0	29.0	34.0	25.0	28.0	15.0	160.0	
GS27	5	10/31/2008	<	<	<	<	0.22	0.19	0.52	0.14	0.13	0.26	0.61	3.5	<	<	<	<	5.6	
GS27	10	10/31/2008	<	<	100.0	590.0	**1,200.0**	**1,900.0**	**1,900.0**	**1,600.0**	**1,700.0**	**1,500.0**	**1,300.0**	**2,600.0**	**2,300.0**	**1,600.0**	**1,500.0**	**1,000.0**	**21,000.0**	
GS28	5	10/31/2008	<	<	<	<	0.35	0.15	1.2	0.088	0.08	0.36	0.65	7.2	<	<	<	<	10.0	
GS28	10	10/31/2008	<	<	<	<	<	<	<	<	<	0.047	0.28	0.83	<	<	<	<	< 5.0	
GS29	5	10/31/2008	<	0.64	0.52	0.36	0.97	0.64	1.4	1.2	1.8	2.3	2.4	11.0	7.7	5.2	5.1	3.2	45.0	
GS29	10	10/31/2008	<	<	<	<	<	<	0.3	0.008	0.021	0.35	1.0	1.8	<	<	<	<	< 5.0	
GS30	5	10/31/2008	<	<	<	<	<	<	0.72	0.11	0.064	0.3	0.27	3.4	<	<	<	<	< 5.0	
GS30	10	10/31/2008	<	<	<	<	<	0.032	0.59	0.011	0.02	0.38	0.33	2.9	<	<	<	<	< 5.0	
GS31	5	10/31/2008	<	<	<	<	<	<	0.26	0.044	0.045	0.27	0.3	0.73	<	<	<	<	< 5.0	
GS31	10	10/31/2008	<	<	<	<	<	<	0.68	0.029	0.11	0.32	0.52	5.0	<	<	<	<	6.6	

1) TPH = Total Petroleum Hydrocarbon - EPA Method 8015B (M)

2) C = Carbon Chain Range

3) Concentration = or > 1,000 mg/kg in bold text.

4) "<" indicates compound not detected. Laboratory detection limits for individual carbon chain ranges was not supplied by laboratory.

5) Blank = Not Analyzed

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Sample	Depth	Date	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total
GS1	0.5	10/12/2007		<	<	0.25	0.56	0.28	0.28	0.15	0.28	0.16	1.9	0.24	<	<	<	<		< 5.0
GS1	2.5	10/12/2007		<	<	0.3	1.0	0.4	0.47	0.29	0.35	0.3	0.76	0.2	<	<	<	<		< 5.0
GS2	0.5	10/12/2007		<	<	<	<	<	1.1	1.7	9.5	12.0	28.0	61.0	93.0	78.0	65.0	72.0		420.0
GS2	2.5	10/12/2007		<	<	1.5	1.1	0.83	1.2	0.64	2.0	1.6	13.0	5.8	7.9	6.2	4.4	5.2		51.0
GS3	0.5	10/12/2007		<	<	0.45	0.22	0.13	0.79	0.5	2.5	2.5	16.0	18.0	34.0	29.0	17.0	28.0		150.0
GS3	2.5	10/12/2007		<	<	<	<	3.2	12.0	23.0	46.0	55.0	91.0	200.0	270.0	200.0	210.0	170.0		**1,300.0**
GS4	0.5	10/12/2007		<	<	0.45	0.95	1.1	1.8	1.8	3.1	5.2	15.0	19.0	32.0	26.0	19.0	30.0		160.0
GS4	2.5	10/12/2007		<	<	0.22	0.56	0.041	0.52	0.7	1.7	1.7	7.4	4.2	7.3	3.7	3.0	4.4		35.0
GS5	0.5	10/12/2007		<	<	0.36	0.89	<	1.2	2.9	6.3	7.7	25.0	39.0	66.0	67.0	51.0	53.0		320.0
GS5	2.5	10/12/2007		<	<	0.1	0.13	0.36	2.0	3.2	5.2	5.2	10.0	12.0	14.0	9.3	7.6	10.0		79.0
GS6	0.5	10/12/2007		<	<	<	<	<	4.7	33.0	92.0	160.0	300.0	770.0	**1,000.0**	840.0	670.0	520.0		**4,400.0**
GS6	2.5	10/12/2007		<	<	0.38	0.1	0.075	0.78	0.57	3.1	3.2	18.0	16.0	18.0	11.0	9.5	11.0		92.0
GS7	0.5	10/12/2007		<	<	<	<	14.0	59.0	96.0	190.0	370.0	650.0	**2,100.0**	**3,600.0**	**2,300.0**	**2,100.0**	**1,800.0**		**13,000.0**
GS7	2.5	10/12/2007		<	<	<	<	0.41	0.37	0.22	0.17	0.87	2.2	2.3	1.8	0.28	<	<		8.6
GS8	0.5	10/12/2007		<	<	<	<	<	7.8	22.0	55.0	72.0	130.0	500.0	990.0	900.0	**1,100.0**	980.0		**4,700.0**
GS8	2.5	10/12/2007		<	<	360.0	160.0	78.0	160.0	180.0	350.0	250.0	400.0	720.0	910.0	**1,300.0**	950.0	900.0		**6,700.0**
GS9	0.5	10/12/2007		<	<	<	4.4	68.0	220.0	440.0	680.0	680.0	960.0	**2,100.0**	**2,500.0**	**1,800.0**	**1,700.0**	**1,400.0**		**13,000.0**
GS9	2.5	10/12/2007		<	16.0	120.0	350.0	930.0	**1,600.0**	**2,200.0**	**2,600.0**	**2,300.0**	**2,400.0**	**4,600.0**	**5,000.0**	**3,300.0**	**2,100.0**	**2,200.0**		**30,000.0**
GS10	0.5	10/12/2007		<	<	<	1.4	3.5	6.1	4.6	10.0	14.0	24.0	51.0	87.0	56.0	34.0	57.0		350.0
GS10	2.5	10/12/2007		<	<	<	<	<	16.0	45.0	110.0	180.0	330.0	760.0	**1,100.0**	720.0	530.0	390.0		**4,100.0**
GS11	0.5	10/12/2007		<	<	0.32	0.89	0.53	0.8	1.0	3.0	2.8	9.2	11.0	15.0	13.0	12.0	11.0		81.0
GS11	2.5	10/12/2007		<	<	0.13	0.65	0.46	1.2	0.27	0.4	0.25	2.1	0.12	<	<	<	<		5.6
GS12	0.5	10/12/2007		<	<	<	<	0.25	1.5	3.9	6.0	12.0	20.0	28.0	43.0	26.0	21.0	31.0		190.0
GS12	2.5	10/12/2007		<	<	0.62	1.9	2.1	2.8	3.5	8.8	15.0	34.0	53.0	64.0	41.0	8.3	19.0		250.0

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Sample	Depth	Date	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total
GS13	5	10/30/2008	<	<	<	<	<	<	<	<	<	<	<	0.35	<	<	<	<	< 5.0	
GS13	10	10/30/2008	<	<	<	<	0.31	0.26	0.67	0.13	0.11	0.11	0.084	2.7	<	<	<	<	< 5.0	
GS14	5	10/30/2008	<	<	<	<	0.28	0.39	0.59	0.25	0.18	0.2	0.19	1.7	<	<	<	<	< 5.0	
GS14	9.5	10/30/2008	<	<	<	<	<	0.3	1.0	1.1	1.7	2.2	3.2	13.0	14.0	12.0	14.0	8.3	70.0	
GS15	5	10/30/2008	<	<	<	<	0.17	0.3	0.49	0.11	0.19	0.22	0.27	0.72	<	<	<	<	< 5.0	
GS15	10	10/30/2008	<	<	<	<	0.62	0.24	1.5	0.14	0.15	0.16	0.12	8.4	<	<	<	<	11.0	
GS16	5	10/30/2008	<	<	<	<	<	0.06	0.23	<	<	<	0.044	0.58	<	<	<	<	< 5.0	
GS16	10	10/30/2008	<	<	<	<	0.44	0.3	0.86	0.12	0.14	0.11	0.14	4.5	<	<	<	<	6.6	
GS17	5	10/30/2008	<	<	<	<	0.12	0.13	0.32	<	<	<	0.09	0.85	<	<	<	<	< 5.0	
GS17	10	10/30/2008	<	<	<	<	0.27	0.18	0.45	0.13	0.15	0.39	0.22	1.4	<	<	<	<	< 5.0	
GS18	5	10/30/2008	<	<	<	<	<	0.05	0.29	0.13	0.087	0.006	<	0.55	<	<	<	<	< 5.0	
GS18	10	10/30/2008	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	< 5.0	
GS19	1	10/30/2008	<	<	<	<	0.27	0.99	1.5	1.6	3.0	3.8	5.9	22.0	26.0	21.0	34.0	15.0	130.0	
GS19	5	10/30/2008	<	<	<	<	<	0.19	0.31	<	<	<	<	1.3	<	<	<	<	< 5.0	
GS19	10	10/30/2008	<	<	<	<	0.46	0.61	1.7	0.19	0.19	0.17	0.14	6.2	<	<	<	<	9.6	
GS20	5	10/30/2008	<	<	<	<	0.73	0.32	1.7	0.17	<	<	0.064	9.7	<	<	<	<	13.0	
GS20	10	10/30/2008	<	<	<	<	0.36	0.34	0.55	0.18	0.17	0.42	0.82	1.0	<	<	<	<	< 5.0	
GS21	5	10/30/2008	<	<	<	<	0.16	0.22	0.5	0.27	0.2	0.32	0.31	0.34	<	<	<	<	< 5.0	
GS21	10	10/30/2008	<	<	<	<	0.3	0.26	1.0	0.27	0.2	0.17	0.25	3.5	<	<	<	<	5.9	
GS22	5	10/30/2008	<	<	<	0.034	0.12	0.21	0.4	0.17	0.42	0.95	4.3	2.6	1.6	0.096	<	<	11.0	
GS22	10	10/30/2008	<	<	<	<	0.2	0.27	0.56	0.37	0.82	0.17	8.0	0.1	<	<	<	<	10.0	
GS23	5	10/30/2008	<	<	<	<	<	<	<	<	<	<	2.6	<	<	<	<	<	< 5.0	
GS23	10	10/30/2008	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	< 5.0	
GS24	5	10/31/2008	<	<	0.29	0.19	0.13	0.23	0.51	0.32	0.61	1.3	1.4	6.0	3.1	1.9	3.2	2.8	22.0	

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Sample	Depth	Date	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total
GS24	10	10/31/2008	<	<	<	<	<	0.044	0.2	0.095	0.11	0.34	0.83	0.57	<	<	<	<	< 5.0	
GS25	1	10/31/2008	<	<	<	<	3.8	53.0	200.0	390.0	640.0	950.0	960.0	**2,600.0**	**2,700.0**	**2,100.0**	**2,100.0**	**1,500.0**	**14,000.0**	
GS25	5	10/31/2008	<	<	<	<	<	<	<	<	<	<	0.18	0.28	<	<	<	<	< 5.0	
GS25	10	10/31/2008	<	<	<	<	0.36	0.18	0.72	0.06	0.1	0.39	0.4	4.3	<	<	<	<	6.5	
GS26	5	10/31/2008	<	<	<	0.9	1.0	0.52	1.5	0.27	0.21	0.21	0.21	4.3	0.17	<	<	<	9.3	
GS26	10	10/31/2008	<	<	<	1.5	0.94	0.5	1.0	0.32	0.22	0.22	0.19	1.6	0.6	<	<	<	7.1	
GS27	1	10/31/2008	<	<	0.54	0.42	0.28	0.65	1.5	3.1	6.1	8.9	12.0	29.0	34.0	25.0	28.0	15.0	160.0	
GS27	5	10/31/2008	<	<	<	<	0.22	0.19	0.52	0.14	0.13	0.26	0.61	3.5	<	<	<	<	5.6	
GS27	10	10/31/2008	<	<	100.0	590.0	**1,200.0**	**1,900.0**	**1,900.0**	**1,600.0**	**1,700.0**	**1,500.0**	**1,300.0**	**2,600.0**	**2,300.0**	**1,600.0**	**1,500.0**	**1,000.0**	**21,000.0**	
GS28	5	10/31/2008	<	<	<	<	0.35	0.15	1.2	0.088	0.08	0.36	0.65	7.2	<	<	<	<	10.0	
GS28	10	10/31/2008	<	<	<	<	<	<	<	<	<	0.047	0.28	0.83	<	<	<	<	< 5.0	
GS29	5	10/31/2008	<	0.64	0.52	0.36	0.97	0.64	1.4	1.2	1.8	2.3	2.4	11.0	7.7	5.2	5.1	3.2	45.0	
GS29	10	10/31/2008	<	<	<	<	<	<	0.3	0.008	0.021	0.35	1.0	1.8	<	<	<	<	< 5.0	
GS30	5	10/31/2008	<	<	<	<	<	<	0.72	0.11	0.064	0.3	0.27	3.4	<	<	<	<	< 5.0	
GS30	10	10/31/2008	<	<	<	<	<	0.032	0.59	0.011	0.02	0.38	0.33	2.9	<	<	<	<	< 5.0	
GS31	5	10/31/2008	<	<	<	<	<	<	0.26	0.044	0.045	0.27	0.3	0.73	<	<	<	<	< 5.0	
GS31	10	10/31/2008	<	<	<	<	<	<	0.68	0.029	0.11	0.32	0.52	5.0	<	<	<	<	6.6	

1) TPH = Total Petroleum Hydrocarbon - EPA Method 8015B (M)

2) C = Carbon Chain Range

3) Concentration = or > 1,000 mg/kg in bold text.

4) "<" indicates compound not detected. Laboratory detection limits for individual carbon chain ranges was not supplied by laboratory.

5) Blank = Not Analyzed

Table 2 - VOC "Hits" in Soil Summary (ug/kg)
1510 East I Street, Wilmington, California

Sample ID	Depth (feet)	Date Sampled	Benzene	Ethylbenzene	Toluene	o-Xylene	p/m-Xylene	Bromoform	Ethanol	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene
GS1	2.5	10-12-07	< 0.96	< 0.96	**0.97**	< 0.96	< 1.9	< 4.8	< 480.0	< 0.96	< 9.6	< 0.96	< 0.96	< 0.96
GS2	5.5	10-12-07	< 0.81	< 0.81	< 0.81	< 0.81	< 1.6	< 4.1	< 410.0	< 0.81	< 8.1	< 0.81	< 0.81	< 0.81
GS3	2.5	10-12-07	< 0.85	< 0.85	< 0.85	< 0.85	< 1.7	< 4.2	**540.0**	< 0.85	< 8.5	< 0.85	< 0.85	< 0.85
GS4	5.5	10-12-07	< 0.81	< 0.81	< 0.81	< 0.81	< 1.6	< 4.0	< 400.0	< 0.81	< 8.1	< 0.81	< 0.81	< 0.81
GS5	2.5	10-12-07	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2	< 420.0	< 0.84	< 8.4	< 0.84	< 0.84	< 0.84
GS6	5.5	10-12-07	< 0.89	< 0.89	< 0.89	< 0.89	< 1.8	< 4.5	< 450.0	< 0.89	< 8.9	< 0.89	< 0.89	< 0.89
GS7	2.5	10-12-07	< 0.91	< 0.91	< 0.91	< 0.91	< 1.8	**8.9**	< 450.0	< 0.91	< 9.1	< 0.91	< 0.91	< 0.91
GS8	2.5	10-12-07	< 0.83	< 0.83	< 0.83	< 0.83	< 1.7	< 4.2	< 420.0	< 0.83	< 8.3	< 0.83	< 0.83	< 0.83
GS9	5.5	10-12-07	< 0.89	< 0.89	**1.3**	< 0.89	< 1.8	< 4.4	< 440.0	< 0.89	< 8.9	< 0.89	< 0.89	< 0.89
GS10	2.5	10-12-07	< 0.8	< 0.8	**1.1**	< 0.8	**1.8**	< 4.0	< 400.0	< 0.8	< 8.0	< 0.8	< 0.8	< 0.8
GS11	5.5	10-12-07	< 0.79	< 0.79	**1.1**	< 0.79	< 1.6	< 4.0	< 400.0	< 0.79	< 7.9	< 0.79	< 0.79	< 0.79
GS12	5.5	10-12-07	< 0.81	< 0.81	< 0.81	< 0.81	< 1.6	< 4.1	< 410.0	< 0.81	< 8.1	< 0.81	< 0.81	< 0.81
GS13	5.0	10-30-08	< 0.93	< 0.93	**8.6**	< 0.93	< 1.9	< 4.6		< 0.93	< 9.3	< 0.93	< 1.9	< 0.93
GS13	10.0	10-30-08	< 0.84	< 0.84	**2.4**	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS14	5.0	10-30-08	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 50.0	< 5.0	< 5.0	< 5.0
GS14	9.5	10-30-08	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 50.0	< 5.0	< 5.0	< 5.0
GS15	5.0	10-30-08	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS15	10.0	10-30-08	< 0.82	< 0.82	**1.3**	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS16	5.0	10-30-08	< 0.87	< 0.87	**3.0**	< 0.87	< 1.7	< 4.4		< 0.87	< 8.7	< 0.87	< 1.7	< 0.87
GS16	10.0	10-30-08	< 0.85	< 0.85	**4.7**	< 0.85	< 1.7	< 4.2		< 0.85	< 8.5	< 0.85	< 1.7	< 0.85
GS17	5.0	10-30-08	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 50.0	< 5.0	< 5.0	< 5.0
GS17	10.0	10-30-08	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 50.0	< 5.0	< 5.0	< 5.0
GS18	5.0	10-30-08	< 0.89	< 0.89	**1.0**	< 0.89	< 1.8	< 4.5		< 0.89	< 8.9	< 0.89	< 1.8	< 0.89
GS18	10.0	10-30-08	**1.7**	< 0.83	**1.5**	< 0.83	< 1.7	< 4.2		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS19	5.0	10-30-08	< 0.92	< 0.92	< 0.92	< 0.92	< 1.8	< 4.6		< 0.92	< 9.2	< 0.92	< 1.8	< 0.92
GS19	10.0	10-30-08	< 0.8	< 0.8	< 0.8	< 0.8	< 1.6	< 4.0		< 0.8	< 8.0	< 0.8	< 1.6	< 0.8
GS20	5.0	10-30-08	< 0.83	< 0.83	< 0.83	< 0.83	< 1.7	< 4.1		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS20	10.0	10-30-08	**1.9**	< 0.95	**1.1**	< 0.95	< 1.9	< 4.8		< 0.95	< 9.5	< 0.95	< 1.9	< 0.95

Table 2 - VOC "Hits" in Soil Summary (ug/kg)
1510 East I Street, Wilmington, California

Sample ID	Depth (feet)	Date Sampled	Benzene	Ethylbenzene	Toluene	o-Xylene	p/m-Xylene	Bromoform	Ethanol	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene
GS21	5.0	10-30-08	< 0.79	< 0.79	< 0.79	< 0.79	< 1.6	< 4.0		< 0.79	< 7.9	< 0.79	< 1.6	< 0.79
GS21	10.0	10-30-08	< 0.85	< 0.85	**1.0**	< 0.85	< 1.7	< 4.2		< 0.85	< 8.5	< 0.85	< 1.7	< 0.85
GS22	5.0	10-30-08	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS22	10.0	10-30-08	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS23	5.0	10-30-08	< 0.83	< 0.83	< 0.83	< 0.83	< 1.7	< 4.1		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS23	10.0	10-30-08	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS24	5.0	10-31-08	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS24	10.0	10-31-08	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS25	5.0	10-31-08	< 0.86	< 0.86	< 0.86	< 0.86	< 1.7	< 4.3		< 0.86	< 8.6	< 0.86	< 1.7	< 0.86
GS25	10.0	10-31-08	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS26	5.0	10-31-08	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS26	10.0	10-31-08	< 0.86	< 0.86	**1.3**	< 0.86	< 1.7	< 4.3		< 0.86	< 8.6	< 0.86	< 1.7	< 0.86
GS27	5.0	10-31-08	< 0.85	< 0.85	< 0.85	< 0.85	< 1.7	< 4.2		< 0.85	< 8.5	< 0.85	< 1.7	< 0.85
GS27	10.0	10-31-08	**110.0**	**5,900.0**	< 88.0	**140.0**	< 180.0	< 440.0		**3,500.0**	**15,000.0**	**4,300.0**	**5,700.0**	**4,200.0**
GS28	5.0	10-31-08	< 0.9	< 0.9	< 0.9	< 0.9	< 1.8	< 4.5		< 0.9	< 9.0	< 0.9	< 1.8	< 0.9
GS28	10.0	10-31-08	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS29	5.0	10-31-08	< 0.79	< 0.79	< 0.79	< 0.79	< 1.6	< 4.0		< 0.79	< 7.9	< 0.79	< 1.6	< 0.79
GS29	10.0	10-31-08	< 0.83	< 0.83	**1.3**	< 0.83	< 1.7	< 4.1		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS30	5.0	10-31-08	< 0.89	< 0.89	< 0.89	< 0.89	< 1.8	< 4.4		< 0.89	< 8.9	< 0.89	< 1.8	< 0.89
GS30	10.0	10-31-08	< 0.77	< 0.77	< 0.77	< 0.77	< 1.5	< 3.9		< 0.77	< 7.7	< 0.77	< 1.5	< 0.77
GS31	5.0	10-31-08	< 0.83	< 0.83	< 0.83	< 0.83	< 1.7	< 4.1		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS31	10.0	10-31-08	< 0.8	< 0.8	< 0.8	< 0.8	< 1.6	< 4.0		< 0.8	< 8.0	< 0.8	< 1.6	< 0.8

Detected concentrations do not equal or exceed the Industrial PRG value for soil.

Blank = Not Analyzed

Table 3
PAHs in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Sample	Depth (ft)	Date	Acenaphthene	Chrysene	Fluorene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Phenanthrene	Pyrene
GS13	0.5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS13	5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS14	5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS15	5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS16	5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS17	10	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS18	10	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS19	5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS20	1	10/30/2008	< 0.02	**0.023**	< 0.02	< 0.02	**0.03**	**0.033**	**0.035**	**0.029**
GS21	5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS22	5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS23	10	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS24	10	10/31/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS25	5	10/31/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS26	5	10/31/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS27	10	10/31/2008	**1.2**	< 1.0	**1.6**	**17.0**	**26.0**	**8.3**	**4.2**	< 1.0
GS28	10	10/31/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS29	10	10/31/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS30	5	10/31/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS31	5	10/31/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Detected concentrations do not exceed the Industrial PRG value.

Table 4 - Metals in Soil Summary
1510 East I Street, Wilmington, California

Sample ID	Date Sampled	*Sb*	*As*	*Ba*	*Be*	*Cd*	*Cr*	*Co*	*Cu*	*Pb*	*Pb STLC*	*Hg*	*Mo*	*Ni*	*Se*	*Ag*	*Th*	*V*	*Zn*
GS1-0.5'	10-12-07	< 0.75	**3.85**	104.0	0.281	< 0.5	15.3	9.27	28.6	10.4		< 0.084	0.934	12.3	< 0.75	< 0.25	< 0.75	28.5	39.7
GS1-2.5'	10-12-07	< 0.75	**2.81**	101.0	0.26	< 0.5	14.1	8.79	12.0	3.5		< 0.084	0.408	10.6	< 0.75	< 0.25	< 0.75	26.2	28.1
GS2-0.5'	10-12-07	< 0.75	**3.83**	118.0	0.313	< 0.5	17.5	9.72	19.9	21.2		< 0.084	0.538	16.1	< 0.75	< 0.25	< 0.75	33.4	76.8
GS2-2.5'	10-12-07	< 0.75	**5.52**	125.0	0.391	< 0.5	25.9	11.4	24.0	9.45		< 0.084	1.07	19.7	< 0.75	< 0.25	< 0.75	37.7	60.6
GS3-0.5'	10-12-07	< 0.75	**5.58**	186.0	< 0.25	< 0.5	18.0	4.98	161.0	42.5		< 0.084	2.14	17.9	< 0.75	< 0.25	< 0.75	23.6	195.0
GS3-2.5'	10-12-07	< 0.75	**14.4**	174.0	0.305	1.3	23.2	9.32	74.1	110.0		0.096	1.57	31.1	< 0.75	< 0.25	< 0.75	35.9	191.0
GS4-0.5'	10-12-07	< 0.75	**5.24**	154.0	0.363	< 0.5	23.4	9.95	26.3	36.0		< 0.084	0.587	16.6	< 0.75	< 0.25	< 0.75	37.4	95.2
GS4-2.5'	10-12-07	< 0.75	**7.11**	94.7	0.298	< 0.5	16.5	11.6	16.7	10.4		< 0.084	0.339	14.9	< 0.75	< 0.25	< 0.75	35.2	74.8
GS5-0.5'	10-12-07	< 0.75	**5.24**	150.0	0.394	< 0.5	34.2	11.3	28.3	41.3		< 0.084	0.669	20.7	< 0.75	< 0.25	< 0.75	41.4	95.4
GS5-2.5'	10-12-07	< 0.75	**4.68**	142.0	0.357	< 0.5	25.7	10.8	34.3	47.2		< 0.084	0.739	18.1	< 0.75	< 0.25	< 0.75	38.2	112.0
GS6-0.5'	10-12-07	< 0.75	**6.02**	223.0	< 0.25	2.02	21.2	7.24	140.0	1,210.0		< 0.084	1.98	35.0	< 0.75	< 0.25	< 0.75	33.3	508.0
GS6-2.5'	10-12-07	< 0.75	**6.8**	152.0	0.766	< 0.5	34.5	14.6	25.2	17.3		< 0.084	< 0.25	27.6	< 0.75	< 0.25	< 0.75	57.7	68.8
GS7-0.5'	10-12-07	< 0.75	**6.28**	143.0	< 0.25	1.45	18.2	7.08	57.9	228.0		< 0.084	2.7	22.3	< 0.75	< 0.25	< 0.75	29.2	255.0
GS7-2.5'	10-12-07	< 0.75	**5.48**	76.6	0.649	< 0.5	29.6	12.7	26.4	9.02		< 0.084	< 0.25	20.3	< 0.75	< 0.25	< 0.75	56.4	59.1
GS8-0.5'	10-12-07	< 0.75	**6.79**	183.0	< 0.25	0.514	17.2	5.35	283.0	119.0		< 0.084	1.74	23.8	< 0.75	< 0.25	< 0.75	27.2	326.0
GS8-2.5'	10-12-07	< 0.75	**5.44**	120.0	0.41	< 0.5	22.1	9.53	40.6	55.7		0.1	0.781	19.3	< 0.75	< 0.25	< 0.75	37.0	130.0
GS9-0.5'	10-12-07	< 0.75	**12.0**	250.0	< 0.25	0.934	23.1	7.72	62.6	144.0		0.124	3.32	30.3	< 0.75	< 0.25	< 0.75	47.1	460.0
GS9-2.5'	10-12-07	< 0.75	**4.95**	356.0	< 0.25	< 0.5	19.0	7.54	28.7	40.5		< 0.084	1.27	20.7	< 0.75	< 0.25	< 0.75	31.7	63.6
GS10-0.5'	10-12-07	< 0.75	**5.41**	228.0	< 0.25	0.56	19.2	4.31	152.0	122.0		< 0.084	2.82	21.2	< 0.75	< 0.25	< 0.75	18.0	1,200.0
GS10-2.5'	10-12-07	< 0.75	**5.28**	230.0	< 0.25	0.781	21.0	5.04	722.0	195.0		< 0.084	2.55	30.3	< 0.75	< 0.25	< 0.75	19.8	494.0
GS11-0.5'	10-12-07	< 0.75	**3.66**	97.1	0.353	< 0.5	18.0	9.58	16.2	12.5		< 0.084	0.287	14.6	< 0.75	< 0.25	< 0.75	32.5	49.8
GS11-2.5'	10-12-07	< 0.75	**3.65**	133.0	0.364	< 0.5	19.1	9.55	15.1	6.44		< 0.084	0.299	14.0	< 0.75	< 0.25	< 0.75	35.1	45.0
GS12-0.5'	10-12-07	< 0.75	**8.41**	145.0	0.472	1.76	79.3	11.0	47.9	60.6		< 0.084	1.54	41.1	< 0.75	< 0.25	< 0.75	53.5	1,760.0
GS12-2.5'	10-12-07	< 0.75	**3.62**	143.0	0.312	< 0.5	17.9	8.79	26.7	19.8		< 0.084	0.49	17.2	< 0.75	< 0.25	< 0.75	30.3	80.7
GS13-0.5'	10-30-08		**7.83**			5.13				261.0									
GS13-5'	10-30-08		**2.99**			< 0.5				6.9	0.185								
GS13-10'	10-30-08		**2.4**			< 0.5				7.96									
GS14-0.5'	10-30-08		**4.87**			1.51				154.0									
GS14-5'	10-30-08		**6.12**			< 0.5				7.31									
GS15-0.5'	10-30-08		**5.48**			2.28				143.0									
GS15-5'	10-30-08		**1.89**			< 0.5				3.6									
GS16-0.5'	10-30-08		**5.19**			0.75				58.7									

Table 4 - Metals in Soil Summary
1510 East I Street, Wilmington, California

Sample ID	Date Sampled	*Sb*	*As*	*Ba*	*Be*	*Cd*	*Cr*	*Co*	*Cu*	*Pb*	*Pb STLC*	*Hg*	*Mo*	*Ni*	*Se*	*Ag*	*Th*	*V*	*Zn*
GS16-5'	10-30-08		**5.39**			< 0.5				7.74									
GS17-0.5'	10-30-08		**3.74**			0.983				38.0									
GS17-5'	10-30-08		**3.23**			< 0.5				5.94									
GS18-0.5'	10-30-08		**4.88**			0.966				52.1									
GS18-5'	10-30-08		**5.51**			< 0.5				7.23									
GS19-0.5'	10-30-08		**4.28**			1.29				50.9									
GS19-1'	10-30-08		**4.29**			0.569				30.8									
GS20-0.5'	10-30-08		**4.49**			1.48				85.7									
GS20-1'	10-30-08		**1.74**			< 0.5				22.6									
GS21-0.5'	10-30-08		**3.72**			1.4				153.0									
GS21-5'	10-30-08		**4.84**			< 0.5				5.03									
GS22-0.5'	10-30-08		**4.43**			2.6				493.0	16.6								
GS22-1'	10-30-08		**9.05**			**11.1**				1,180.0									
GS23-0.5'	10-30-08		**2.16**			< 0.5				10.4									
GS23-1'	10-30-08		**2.9**			0.698				19.1									
GS24-0.5'	10-31-08		**59.3**			1.37				167.0									
GS24-1'	10-31-08		**105.0**			1.04				63.1									
GS25-0.5'	10-31-08		**2.83**			1.7				157.0									
GS25-1'	10-31-08		**6.31**			0.685				61.7									
GS26-1'	10-31-08		**3.16**			1.67				69.0									
GS26-5'	10-31-08		**7.79**			0.613				5.74									
GS26-0.5'	10-31-08		**5.83**			2.68				106.0									
GS27-0.5'	10-31-08		**3.9**			0.637				13.1									
GS27-1'	10-31-08		**3.15**			< 0.5				9.09									
GS28-0.5'	10-31-08		**5.07**			1.77				278.0	24.9								
GS28-1'	10-31-08		**8.11**			2.01				61.5									
GS29-0.5'	10-31-08		**65.3**			1.09				520.0	5.31								
GS29-1'	10-31-08		**2.54**			4.96				14.1									
GS30-0.5'	10-31-08		**32.5**			4.36				369.0	65.9								
GS30-1'	10-31-08		**2.92**			0.56				17.8									
GS31-0.5'	10-31-08		**3.97**			**8.55**				194.0									
GS31-1'	10-31-08		**2.48**			1.23				51.3									

Table 4 - Metals in Soil Summary
1510 East I Street, Wilmington, California

Sample ID	Date Sampled	*Sb*	*As*	*Ba*	*Be*	*Cd*	*Cr*	*Co*	*Cu*	*Pb*	*Pb STLC*	*Hg*	*Mo*	*Ni*	*Se*	*Ag*	*Th*	*V*	*Zn*
HA3-0.5'	10-31-08					2.74				319.0	15.5								
HA3-1'	10-31-08					**11.7**				536.0	2.34								
HA4-0.5'	10-31-08					3.08				758.0	26.8								
HA4-1'	10-31-08					3.2				302.0	40.7								
HA5-0.5'	10-31-08					3.32				1,110.0									
HA6-0.5'	10-31-08					5.48				181.0									
HA6-1'	10-31-08									303.0	75.1								
HA7-0.5'	10-31-08					1.71				106.0									
HA7-1'	10-31-08									191.0									
HA8-0.5'	10-31-08					3.21				217.0									
HA8-1'	10-31-08									1,550.0									
HA9-0.5'	10-31-08									161.0									
HA9-1'	10-31-08									82.0									
HA10-0.5'	10-31-08									47.3									
HA10-1'	10-31-08									4.46									
HA11-0.5'	10-31-08									147.0									
HA11-3'	10-31-08									5.62									
HA12-0.5'	10-31-08									221.0									
HA12-3'	10-31-08									10.8									
GS15-GW	10-30-08		0.22			0.011				0.285									

1) All metal values expressed as mg/kg, except Pb-STLC. Pb-STLC values expressed as mg/L.
2) Blank value indicates not analyzed.
3) Bold value indicates it exceeds the industrial CHHSL value.
4) Underlined value indicates it exceeds the TTLC value.
5) Shaded value indicates it exceeds the STLC value.

Sb - Antimony
As - Arsenic
Ba - Barium
Be - Beryllium
Cd - Cadmium
Cr - Chromium
Co - Cobalt
Cu - Copper
Pb - Lead
Hg - Mercury
Mo - Molybdenum
Ni - Nickel
Se - Selenium
Ag - Silver
Th - Thallium
V - Vanadium
Zn - Zinc

Table 5 - PCB in Soil Summary (ug/kg)
1510 East I Street, Wilmington, California

Location	Depth (feet)	Date Sampled	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262
GS1	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS2	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS3	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS4	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**73.0**	< 50.0	< 50.0
GS5	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**81.0**	< 50.0	< 50.0
GS6	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**74.0**	< 50.0	< 50.0
GS7	0.5	10-12-07	< 250.0	< 250.0	< 250.0	< 250.0	**1,800.0**	**990.0**	< 250.0	< 250.0
GS8	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS9	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS10	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS11	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS12	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS13	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	**63.0**	**64.0**	< 50.0	< 50.0
GS13	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS14	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS14	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS15	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS15	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS16	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS16	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS17	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**88.0**	< 50.0	< 50.0
GS17	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS18	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	**300.0**	**340.0**	< 50.0	< 50.0
GS18	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS19	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**68.0**	< 50.0	< 50.0
GS19	1.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**120.0**	< 50.0	< 50.0
GS20	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	**97.0**	**94.0**	< 50.0	< 50.0
GS20	1.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS21	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS21	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS22	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS22	1.0	10-30-08	< 250.0	< 250.0	< 250.0	< 250.0	**2,100.0**	**1,100.0**	< 250.0	< 250.0
GS23	0.5	10-30-08	< 100.0	< 100.0	< 100.0	< 100.0	**1,600.0**	**590.0**	< 100.0	< 100.0
GS23	1.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS23	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS24	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**120.0**	< 50.0	< 50.0
GS24	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS25	5.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0

Table 5 - PCB in Soil Summary (ug/kg)
1510 East I Street, Wilmington, California

Location	Depth (feet)	Date Sampled	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262
GS25	10.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS26	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS26	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS27	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS27	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS28	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	**220.0**	< 50.0	< 50.0	< 50.0
GS28	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS29	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS29	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS30	0.5	10-31-08	< 500.0	< 500.0	< 500.0	< 500.0	**4,400.0**	< 500.0	< 500.0	< 500.0
GS30	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS31	0.5	10-31-08	< 5,000.0	< 5,000.0	< 5,000.0	< 5,000.0	**33,000.0**	< 5,000.0	< 5,000.0	< 5,000.0
GS31	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	**320.0**	< 50.0	< 50.0	< 50.0
HA6-	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
HA6-	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	**440.0**	**320.0**	< 50.0	< 50.0
HA7-	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
HA7-	1.0	10-31-08	< 250.0	< 250.0	< 250.0	< 250.0	< 250.0	**2,100.0**	< 250.0	< 250.0
HA8-	0.5	10-31-08	< 100.0	< 100.0	< 100.0	< 100.0	**1,900.0**	**850.0**	< 100.0	< 100.0
HA8-	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	**540.0**	< 50.0	< 50.0	< 50.0

Underlined value indicates concentration is equal to or exceeds the Indusrtial CHHSL value for soil.

Table 6 - VOC "Hits" in Soil Gas Summary
1510 East I Street, Wilmington, California

Sample ID	Depth (feet)	Date Sampled	Units	Benzene	Ethylbenzene	Toluene	Xylenes	sec-Butylbenzene	Isopropylbenzene	n-Propylbenzene	1,3,5-Tri-methylbenzene	Gasoline Range Organics
GS1	5.0	10-12-07	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**18.7**
GS1	5.0	10-12-07	ug/L	**0.265**	< 0.02	**1.08**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**29.1**
GS1	5.0	10-12-07	ug/L	**0.539**	< 0.02	**2.91**	**0.136**	< 0.02	< 0.02	< 0.02	< 0.02	**33.4**
GS2	5.0	10-12-07	ug/L	**0.821**	**0.421**	**5.62**	**2.64**	< 0.02	< 0.02	< 0.02	< 0.02	**35.9**
GS2	5.0	10-12-07	ug/L	**0.984**	**0.806**	**6.55**	**3.43**	< 0.02	< 0.02	**0.034**	**0.094**	**39.0**
GS3	5.0	10-12-07	ug/L	< 0.02	< 0.02	**0.299**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**3.76**
GS4	5.0	10-12-07	ug/L	**0.174**	< 0.02	**1.3**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**15.6**
GS5	5.0	10-12-07	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**1.08**
GS6	5.0	10-12-07	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**7.01**
GS7	5.0	10-12-07	ug/L	< 0.02	< 0.02	**0.14**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**16.7**
GS8	5.0	10-12-07	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**9.85**
GS9	5.0	10-12-07	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**8.82**
GS10	5.0	10-12-07	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**9.69**
GS11	5.0	10-12-07	ug/L	< 0.02	< 0.02	**0.461**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**25.8**
GS12	5.0	10-12-07	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2
GS13	5.0	10-31-08	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
GS15	5.0	10-31-08	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
GS16	5.0	10-31-08	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
GS17	5.0	10-31-08	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
GS21	5.0	10-31-08	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
GS25	5.0	10-31-08	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
GS26	5.0	10-31-08	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
GS27	5.0	10-31-08	ug/L	< 0.02	**1.64**	< 0.02	< 0.02	**0.155**	**0.783**	**0.589**	**0.783**	

Blank value indicates that compound was not analyzed.

Underlined value indicates concentration exceeds industrial CHHSL value.

Table 7 - Methane in Soil Gas Summary
1510 East I Street, Wilmington, California

Location	Depth (feet)	Date Sampled	Methane	Units
GS13	5.0	10-31-08	< 10.0	ppmv
GS15	5.0	10-31-08	< 10.0	ppmv
GS16	5.0	10-31-08	**10.8**	ppmv
GS17	5.0	10-31-08	< 10.0	ppmv
GS21	5.0	10-31-08	< 10.0	ppmv
GS25	5.0	10-31-08	**13.5**	ppmv
GS26	5.0	10-31-08	< 10.0	ppmv
GS27	5.0	10-31-08	**7,580.0**	ppmv

Table 8 - TPH in Groundwater Smmary (ug/L)
1510 East I Street, Wilmington, California

Sample	Depth	Date	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total
GS13	12	10/30/2008	16.0	81.0	100.0	59.0	19.0	10.0	24.0	31.0	60.0	41.0	65.0	81.0	49.0	19.0	10.0	21.0	***690.0***
GS15	12	10/30/2008	1.4	10.0	2.7	5.2	5.2	13.0	28.0	40.0	61.0	65.0	110.0	130.0	92.0	41.0	13.0	45.0	***660.0***
GS16	12	10/30/2008	2.1	17.0	12.0	10.0	8.5	7.8	12.0	17.0	28.0	31.0	48.0	50.0	30.0	8.5	3.0	22.0	***310.0***
GS19	12	10/30/2008	<	4.4	2.8	3.3	2.7	2.0	2.5	3.3	10.0	12.0	19.0	25.0	20.0	11.0	4.0	15.0	***140.0***
GS20	12	10/30/2008	<	6.8	2.1	2.4	2.6	2.8	4.6	5.8	11.0	12.0	24.0	24.0	20.0	8.1	8.4	25.0	***160.0***
GS21	12	10/30/2008	<	6.7	2.6	4.3	5.4	4.9	6.6	9.7	18.0	21.0	30.0	30.0	20.0	7.9	3.5	17.0	***190.0***
GS22	12	10/30/2008	<	10.0	3.8	3.8	5.1	8.7	33.0	63.0	88.0	71.0	95.0	120.0	58.0	23.0	4.6	30.0	***620.0***
GS23	12	10/30/2008	<	8.1	1.7	3.2	3.6	2.6	6.6	9.6	18.0	17.0	34.0	30.0	21.0	4.3	10.0	14.0	***180.0***
GS25	12	10/31/2008	<	<	1.1	14.0	32.0	59.0	69.0	80.0	72.0	91.0	100.0	90.0	75.0	40.0	26.0	24.0	***780.0***
GS26	12	10/31/2008	<	<	<	<	<	<	5.9	<	49.0	9.1	100.0	42.0	32.0	14.0	6.3	2.1	***260.0***
GS27	12	10/31/2008	<	<	<	79.0	680.0	1,600.0	3,900.0	4,200.0	5,700.0	4,200.0	2,900.0	3,300.0	3,100.0	1,800.0	1,600.0	880.0	***34,000.0***
GS30	12	10/31/2008	<	<	<	<	<	<	<	1.6	7.7	5.4	11.0	32.0	24.0	12.0	5.1	<	***98.0***

TPH = Total Petroleum Hydrocarbon - EPA Method 8015B (M) C6-C44

C = Carbon Chain Range

"<" in C6 through C41-C44 columns indicates compound not detected. Laboratory detection limits for individual carbon chain ranges was not supplied by laboratory.

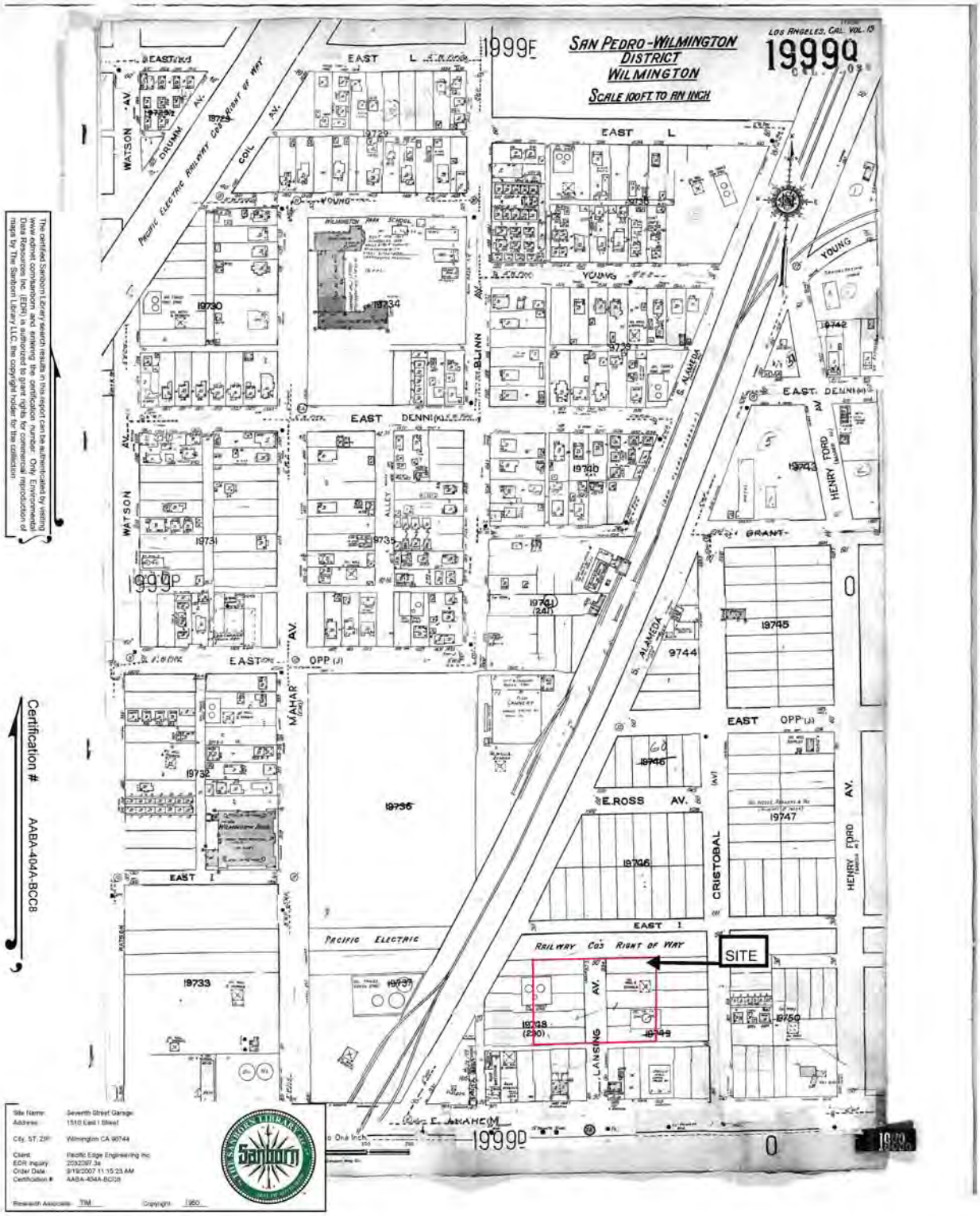
Table 9 - VOC "Hits" in Water Summary (ug/L)
1510 East I Street, Wilmington, California

Sample ID	Depth (feet)	Date Sampled	Benzene	Ethylbenzene	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	MTBE	sec-Butylbenzene	c-1,2-Dichloroethene	t-1,2-Dichloroethene	Trichloroethene
GS13	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GS15	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GS16	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GS19	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.8**	< 1.0	< 1.0
GS20	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	**4.5**	**1.5**	**2.8**
GS21	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GS22	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GS23	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GS25	12.0	10-31-08	< 0.5	< 1.0	**1.6**	< 10.0	**1.5**	**2.8**	**1.4**	**1.6**	**2.9**	< 1.0	< 1.0
GS26	12.0	10-31-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GS27	12.0	10-31-08	**0.64**	**1.1**	**15.0**	**29.0**	**4.1**	**16.0**	< 1.0	**6.3**	< 1.0	< 1.0	< 1.0
GS30	12.0	10-31-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Detected concentrations do not exceed respective MCL

Appendix A

SANBORN MAP (1950)


SAN PEDRO - WILMINGTON
DISTRICT
WILMINGTON
SCALE 100 FT. TO AN INCH
LOS ANGELES, CAL. VOL. 13
1999
1999F
1999P
1999D
EAST L
EAST DENNI(S)
EAST OPP (J)
EAST I
WATSON AV.
DRUMM AV.
COIL AV.
PACIFIC ELECTRIC RAILWAY Co's RIGHT OF WAY
YOUNG
BLINN AV.
S. ALAMEDA
HENRY FORD AV.
GRANT
E. ROSS AV.
CRISTOBAL AV.
MAHAR AV.
ALLEY
PACIFIC ELECTRIC
RAILWAY Co's RIGHT OF WAY
SITE
9730
9734
9729
9731
9735
9732
9736
9733
9737
9720
9742
9743
9744
9745
9746
9747
9748
9749
9750
9720 (241)
9718 (230)
Site Name: Seventh Street Garage
Address: 1510 East I Street
City, ST, ZIP: Wilmington CA 90744
Client: Pacific Edge Engineering Inc
EDR Inquiry: 2032397.3a
Order Date: 8/9/2007 11:15:23 AM
Certification #: AABA-404A-BCC8
Research Associate: TIM
Copyright: 1950
Certification # AABA-404A-BCC8
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Appendix B

BORING LOGS

(949) 470-1937; (949) 470-0943 (FAX)

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS13

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SC	0	6" - 2' 10YR4/4 (dark yellowish brown), moist, CLAYEY SILTY VERY FINE SAND (20,30,40), scattered fine sand (10), no odor
		NR			2' - 4' No Returns
			SM	0.3	4' - 5' 10YR3/3 (dark brown), moist, SILTY VERY FINE SAND (30,55), scattered fine sand (10), trace clay (5), no odor
5		SMPL			5' - 5'6" Sample
			CL		5'6" - 6' 10YR4/4 (dark yellowish brown), moist, SILTY CLAY (45,40), scattered very fine sand (10), trace fine sand (5), no odor
		NR			6' - 8' No Returns
			CL	0	8' - 9'6" 2.5Y5/4 (light olive brown), moist, SILTY VERY FINELY SANDY CLAY (40,30,25), trace fine sand (5), no odor
		SMPL			9'6" - 10' Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS14

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SM		6" - 2' 10YR4/3 (brown), moist, SILTY FINE TO MEDIUM SAND (15,30,30) scattered very fine sand (10), scattered angular gravel (10), trace coarse sand (5), no odor
		NR			2' - 4' No Returns
			CL		4' - 5' 10YR4/4 (dark yellowish brown), moist, SILTY VERY FINELY SANDY CLAY (45,30,15), scattered fine sand (10), no odor
5		SMPL			5' - 5'6" Sample
		NR			5'6" - 8' No Returns
			SP		8' - 9' 2.5Y5/4 (light olive brown), moist, FINE TO MEDIUM SAND (25,55), scattered silt (10), scattered very fine sand (10), no odor
			ML		9' - 9'6" 2.5Y6/4 (light yellowish brown), moist, CLAYEY VERY FINELY SANDY SILT (20,60,15), trace fine sand (5), no odor
10		SMPL			9'6" - 10' Sample
					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS15

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SP	2.3	6" - 1'6" 10YR5/4 (yellowish brown), moist, MEDIUM TO COARSE SAND (40, 30), scattered fine sand (10), scattered angular gravel (10), trace silt (5), trace fine sand (5), no odor
		NR			1'6" - 4' No Returns
			SM	0	4' - 5' 10YR4/3 (brown), moist, VERY FINELY TO FINELY SANDY SILT (60,20,15), trace clay (5), no odor
5		SMPL			5' - 5'6" Sample
		NR			5'6" - 8' No Returns
			CL	0	8' - 9'6" 10YR4/4 (dark yellowish brown), moist, SILTY VERY FINELY SANDY CLAY (45,25,20), scattered fine sand (10), no odor
		SMPL			9'6" - 10' Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS16

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION	
		SMPL			0 - 6"	Sample
			SM	0	6" - 1'6"	10YR4/3 (brown), SILTY VERY FINE TO FINE SAND (15,20,40), trace clay (5), scattered medium sand (10), trace coarse sand (5), trace angular gravel (5), no odor
		NR			1'6" - 4'	No Returns
			CL	0	4' - 5'	10YR5/4 (yellowish brown), moist, SILTY VERY FINELY SANDY CLAY (45,30,15), scattered fine sand (10), no odor
5		SMPL			5' - 5'6"	Sample
					5'6" - 6'	Same as above
		NR			6' - 8'	No Returns
			SM	0.1	8' - 9'	2.5Y5/4 (light olive brown), moist, SILTY VERY FINE TO FINE SAND (15,25,50), scattered medium sand (10), no odor
		SMPL			9' - 9'6"	Sample
10						
						Estimated Groundwater Depth = 10'6" to 12'
15						
20						
25						
30						

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS17

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SM		6" - 1'6" 10YR4/4 (dark yellowish brown), moist, SILTY VERY FINE TO FINE SAND (20,30,40), trace clay (5), trace medium sand (5), no odor
		NR			1'6" - 4' No Returns
			SM		4' - 5' 10YR4/3 (brown), moist, SILTY VERY FINE TO FINE SAND (15,35,45), trace clay (5), no odor
5		SMPL			5' - 5'6" Sample
		NR			5'6" - 8' No Returns
			CL		8' - 9'6" 2.5Y4/4 (olive brown), moist, SILTY VERY FINELY SANDY CLAY (50,20,20), scattered fine sand (10), no odor
		SMPL			9'6" - 10' Sample
10		NR			10' - 14' No Returns
			CL		14' - 16' 2.5Y5/2 (grayish brown), saturated, SILTY VERY FINELY SANDY CLAY (45,30,15), scattered fine sand (10), no odor
15					Estimated Groundwater Depth = 10'6" to 12'
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS18

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SM	0	6" - 1'6" 10YR4/4 (dark yellowish brown), moist, SILTY VERY FINE TO FINE SAND (20,50,20), scattered clay (10), no odor
		NR			1'6" - 4' No Returns
			CL	0	4' - 5' 10YR4/4 (dark yellowish brown), moist, SILTY CLAY (50,35), scattered very fine sand (10), trace fine sand (5), no odor
5		SMPL			5' - 5'6" Sample
			SM		5'6" - 6' 10YR4/6 (dark yellowish brown), moist, SILTY VERY FINE TO FINE SAND (25,40,20), scattered medium sand (10), trace clay (5), no odor
		NR			6' - 8' No Returns
			CL	0	8' - 9' 2.5Y4/4 (olive brown), moist, SILTY CLAY (50,40), scattered very fine sand (10), no odor
		SMPL			9' - 9'6" Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS19

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SM	0	6" - 1'6" 10YR4/3 (brown), moist, SILTY VERY FINE TO FINE SAND (15,50,25), trace medium sand (5), trace angular gravel (5), no odor
		NR			1'6" - 4' No Returns
			CL	1.8	4' - 5' 10YR4/4 (dark yellowish brown), moist, SILTY CLAY (50,35), scattered very fine sand (10), trace fine sand (5), no odor
5		SMPL			5' - 5'6" Sample
		NR			5'6" - 8' No Returns
			CL	0	8' - 9'6" 2.5Y4/4 (olive brown), moist, SILTY VERY FINELY SANDY CLAY (50,15,20), scattered fine sand (10), trace medium sand (5), no odor
		SMPL			9'6" - 10' Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS20

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SM	20.1	6" - 1' 10YR3/4 (dark yellowish brown), moist, SILTY VERY FINE TO FINE SAND (25,40,20), scattered clay (10), trace sub-angular gravel (5), no odor
			SM		1' - 1'6" 10YR4/4 (dark yellowish brown), moist, SILTY VERY FINE TO FINE SAND (20,50,20), trace clay (5), trace medium sand (5), no odor
		NR			1'6" - 4' No Returns
			ML	0.6	4' - 5' 10YR4/4 (dark yellowish brown), moist, VERY FINELY TO FINELY SANDY SILT (45,25,15), scattered clay (10), trace medium sand (5), no odor
5		SMPL			5' - 5'6" Sample
			SM		5'6" - 6' 10YR4/4 (dark yellowish brown), moist, CLAYEY SILTY VERY FINE SAND (25,25,40), scattered fine sand (10), no odor
		NR			6' - 8' No Returns
			ML	0	8' - 9'6" 2.5Y6/2 (light brownish gray), moist, VERY FINELY SANDY SILT (20,65), scattered clay (10), trace fine sand (5), no odor
		SMPL			9'6" - 10' Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS21

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 2'	10YR3/3 (dark brown), moist, SILTY VERY FINE TO FINE SAND (30,40,20), scattered clay (10), no odor	
		NR			2' - 4'	No Returns	
			ML	0	4' - 5'	10YR4/4 (dark yellowish brown), moist, CLAYEY SILT (35,50), scattered very fine sand (10), trace fine sand (5), no odor	
5		SMPL			5' - 5'6"	Sample	
		NR			5'6" - 8'	No Returns	
			SP	0	8' - 9'	2.5Y5/0 (light olive brown), FINE TO MEDIUM SAND (20,65), scattered very fine sand (10), trace coarse sand (5), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS22

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			CL	0	6" - 1'6" 10YR4/4 (dark yellowish brown), moist, SILTY VERY FINELY SANDY CLAY (55,20,15), scattered fine sand (10), no odor
		NR			1'6" - 4' No Returns
			SM	0	4' - 5' 2.5Y5/4 (light olive brown), moist, SILTY VERY FINE SAND (50,30), scattered clay (10), scattered fine sand (10), no odor
5		SMPL			5' - 5'6" Sample
		NR			5'6" - 8' No Returns
			ML	0	8' - 9' 2.5Y5/2 (grayish brown), moist, CLAYEY SILT (30,60), scattered very fine sand (10), no odor
		SMPL			9' - 9'6" Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS23

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			ML	0	6" - 1'6"	10YR4/2 (dark grayish brown), moist, VERY FINELY SANDY SILT (50,35), scattered clay (10), trace fine sand (5), no odor	
		NR			1'6" - 4'	No Returns	
			CL	0.4	4' - 5'	10YR4/4 (dark yellowish brown), moist, SILTY CLAY (65,25), scattered very fine sand (10), no odor	
5		SMPL			5' - 5'6"	Sample	
			CL		5'6" - 6'	Same as above	
		NR			6' - 8'	No Returns	
			CL	0	8' - 9'	2.5Y5/4 (light olive brown), moist, SILTY VERY FINELY SANDY CLAY (40,30,25), trace fine sand (5), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS24

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 9"	10YR4/3 (brown), moist, SILTY VERY FINE SAND (25,65), scattered fine sand (10), no odor	
		NR			9" - 4'	No Returns	
			SM	0	4' - 5'	10YR4/6 (dark yellowish brown), moist, SILTY VERY FINE SAND (35,45), scattered clay (10), scattered fine sand (10), no odor	
5		SMPL			5' - 5'6"	Sample	
		NR			5'6" - 8'	No Returns	
			SM	0	8' - 9'	2.5Y5/4 (light olive brown), moist, SILTY VERY FINE TO FINE SAND (30,50,15), trace medium sand (5), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS25

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 9"	10YR3/6 (dark yellowish brown), moist, SILTY VERY FINE SAND (40,55), trace fine sand (5), no odor	
		NR			9" - 4'	No Returns	
			ML	0	4' - 5'	10YR4/4 (dark yellowish brown), moist, CLAYEY VERY FINELY SANDY SILT (25,45,30), no odor	
5		SMPL			5' - 5'6"	Sample	
		NR			5'6" - 8'	No Returns	
			ML	0	8' - 9'	2.5Y5/6 (light olive brown), moist, CLAYEY SILT (40,50), scattered very fine sand (10), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS26

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 2'	10YR4/4 (dark yellowish brown), moist, CLAYEY SILTY VERY FINE SAND (35,20,40), trace fine sand (5), no odor	
		NR			2' - 4'	No Returns	
			ML	0	4' - 5'	2.5Y5/6 (light olive brown), moist, VERY FINELY SANDY SILT (55,35), trace clay (5), trace fine sand (5), no odor	
5		SMPL			5' - 5'6"	Sample	
			ML		5'6" - 6'	Same as above	
		NR			6' - 8'	No Returns	
			SP	0	8' - 9'	2.5Y6/4 (light yellowish brown), moist, FINE TO MEDIUM SAND (35,60), trace very fine sand (5), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS27

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 2'	10YR4/4 (dark yellowish brown), moist, SILTY VERY FINE SAND (45,55), no odor	
		NR			2' - 4'	No Returns	
			ML	0	4' - 5'	2.5Y4/4 (olive brown), moist, CLAYEY VERY FINELY SANDY SILT (25,50,25), no odor	
5		SMPL			5' - 5'6"	Sample	
		NR			5'6" - 8'	No Returns	
			SM	1556	8' - 9'	2.5Y4/2 (dark grayish brown), SILTY VERY FINE SAND (40,55), trace clay (5), strong petroleum odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS28

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 1'6"	10YR4/3 (brown), moist, SILTY VERY FINE SAND (35,55), trace clay (5), trace fine sand (5), no odor	
		NR			1'6" - 4'	No Returns	
			SP	0	4' - 5'	10YR5/6 (yellowish brown), moist, VERY FINE TO FINE SAND (30,50), scattered silt (10), scattered medium sand (10), trace clay (5), no odor	
5		SMPL			5' - 5'6"	Sample	
			SP		5'6" - 6'	Same as above	
		NR			6' - 8'	No Returns	
			SM	0	8' - 9'	10YR4/4 (dark yellowish brown), moist, SILTY VERY FINE SAND (30,50), scattered clay (10), scattered fine sand (10), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS29

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SM	0	6" - 1'6" 10YR4/4 (dark yellowish brown), moist, SILTY VERY FINE SAND (30,60), scattered fine sand (10), no odor
		NR			1'6" - 4' No Returns
			SM	0	4' - 5' Same as above
5		SMPL			5' - 5'6" Sample
		NR			5'6" - 8' No Returns
			SM	0	8' - 9' 2.5Y5/4 (light olive brown), moist, SILTY VERY FINE SAND (20,70), scattered very fine sand (10), no odor
		SMPL			9' - 9'6" Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS30

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SM	0	6" - 1'6" 10YR4/3 (brown), moist, SILTY VERY FINE SAND (30,60), scattered fine sand (10), no odor
		NR			1'6" - 4' No Returns
			SM	0	4' - 5' 10YR4/6 (dark yellowish brown), SILTY VERY FINE TO FINE SAND (20,60,20), no odor
5		SMPL			5' - 5'6" Sample
		NR			5'6" - 8' No Returns
			SC	0	8' - 9' 2.5Y5/4 (light olive brown), moist, CLAYEY VERY FINE TO FINE SAND (15,40,25), scattered silt (10), scattered medium sand (10), no odor
		SMPL			9' - 9'6" Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS31

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SM	0	6" - 2' 10YR4/3 (brown), moist, SILTY VERY FINE SAND (30,60), scattered fine sand (10), no odor
		NR			2' - 4' No Returns
			SM	0	4' - 5' 10YR4/6 (dark yellowish brown), SILTY VERY FINE TO FINE SAND (20,60,20), no odor
5		SMPL			5' - 5'6" Sample
		NR			5'6" - 8' No Returns
			ML	0.5	8' - 9'6" 2.5Y5/4 (light olive brown), moist, VERY FINELY SANDY SILT (45,40), scattered clay (10), trace fine sand (5), no odor
		SMPL			9'6" - 10' Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

Appendix C

PACIFIC EDGE STANDARD OPERATING PROCEDURES

PACIFIC EDGE ENGINEERING, INC.
STANDARD OPERATING PROCEDURES
GEOPROBE SOIL SAMPLING

DRILLING PROCEDURES

A Geoprobe employs hydraulic power to push a probe unit into subsurface soil. The hydraulic mechanism is assisted by a drive hammer which provides additional force to penetrate dense or hard soil materials.

The probe unit consists of a 2-foot long, 1 3/4 inch diameter California-modified solid-spoon soil sampler and one to five-feet long threaded push rod. The sampler holds an acetate, brass, or stainless steel liner utilized to contain the soil sample. Acetate liners are generally used for collection of soil samples.

The Probe-Drive Sampler remains completely sealed while it is pushed or driven to the desired sampling depth. Once the target depth is reached, a retractable point which previously sealed the sampler is removed and the sampler is pushed an additional 28-inches. The rods and sampler are then retrieved, the sampler is disassembled, the sample tubes removed for identification and analysis, and the apparatus decontaminated prior to reuse. This method allows collection of discrete, relatively undisturbed soil samples from the Site.

SAMPLE COLLECTION

Upon retrieval of the sampler, the acetate sample liners from the desired sampling depths are capped with Teflon^{TM} sheets and plastic end caps. The top and bottom of the sample tube is marked. The sample tubes are labeled, placed in a cooler chilled to approximately 4^0C and shipped to an analytic laboratory under chain-of-custody documentation.

A portion of the sample not wrapped for analysis is placed in a zip-loc bag and allowed to sit for a minimum of 5 minutes. Head space readings are collected with a portable photo-ionization detector by placing the tip of the detector inside the plastic bag. Head space readings are recorded on the boring log. This soil is also inspected for texture, color, moisture content, and other distinguishing characteristics. Soil lithology is described using the Unified Soil Classification System and recorded on a soil boring log. The drilling log includes the sample depth, geologic observations, head space readings, and other details as outlined in California EPA's "Drilling, Coring, Sampling and Logging at Hazardous Substance Release Sites, Interim Final, 1994". All sampling activities are performed by or under the oversight of a California Registered Geologist.

Since samples are obtained by driving the sampling equipment into the subsurface rather than drilling, minimal drill cuttings are generated; thus minimizing the waste resulting from this operation. The boreholes are backfilled with cement grout or hydrated bentonite.

(949) 470-1937; (949) 470-0943 (FAX)

PACIFIC EDGE ENGINEERING, INC.
STANDARD OPERATING PROCEDURES
SOIL GAS SAMPLING - TEMPORARY SAMPLE POINTS

The following steps are generally utilized by Pacific Edge Engineering, Inc. for collection of soil gas samples from temporary sample points:

1) A Geoprobe is utilized to push a 1.25-inch diameter probe rod assembly into the ground until the desired depth is reached. The rod assembly is extracted and the open borehole is sounded to verify that caving has not occurred.
2) A vapor implant consisting of a porous stone is attached to the end of 1/4" O.D. x 0.17" I.D. poly tubing and the tubing/implant are threaded to the bottom of the open borehole.
3) A measured amount of sand filter pack is poured into the hole to cover the implant to an elevation approximately 6-inches above the implant.
4) Approximately 3-inches of powdered bentonite are placed into the borehole on top of the sand.
5) Temporary 1/4" O.D. x 0.17" I.D. poly tubing is threaded to the bottom of the borehole hole (top of powdered bentonite installed in Step 4). The tubing is connected to a water reservoir and is utilized to tremie water into the borehole for hydration of the bentonite.
6) Granular bentonite is slowly added to fill the remaining annulus of the borehole. The bentonite is hydrated through the tremie tube which is slowly removed as the granular bentonite is added.
7) A minimum of 30 minutes are allowed after setting the probe before collecting soil gas samples.
8) Immediately prior to sampling, laboratory grade Isopropyl Alcohol (IPA) is placed over the granular bentonite at the surface of the seal. The IPA serves as a tracer gas for surface leakage. Due to rapid volatization, additional IPA is added if the soil gas sample is not collected within 15-minutes of the initial placement of IPA.
9) The tubing/formation annuluses are purged with a low-flow air sampling pump or a calibrated syringe. The number of purge volumes is based on purge volume testing performed in accordance with Department of Toxic Substances Control (DTSC) "Advisory – Active Soil Gas Investigation" guideline dated January 28, 2003. The purge volume is calculated based on the following:
   - 0.25-inch Tubing (0.17-inch inside diameter) = 0.0045 liters/foot (*l/f*)
   - Open Formation - (assumes use of 1.25" diameter probe rods and 6-inch coarse sand pack with 39% porosity[1]) = 0.046 *l*

   Example - One purge volume for a 15-foot probe depth with 1-foot of tubing extending above ground = 0.0045 *l/ft* x 16 *ft* + 0.046 *l* = 0.118 *l*

[1] Porosity for coarse sand from Driscoll, Groundwater and Wells, 1986

(949) 470-1937; (949) 470-0943 (FAX)

10) A soil gas sample is collected with a calibrated glass syringe provided by the mobile laboratory. The syringe, upon sample collection, is immediately transferred to the mobile laboratory for analysis.

(949) 470-1937; (949) 470-0943 (FAX)

Appendix D

LABORATORY REPORTS – SOIL AND GRAB-GROUNDWATER

Calscience Environmental Laboratories, Inc.

November 06, 2008

Craig Stolz
Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Subject: **Calscience Work Order No.: 08-10-2683**
Client Reference: POLA-7th Street Garage

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/30/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Emma C. Dennison
for

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg
Project: POLA-7th Street Garage		Page 1 of 5

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-0.5'	**08-10-2683-1-A**	**10/30/08 08:35**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:29**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	4.87	0.750	1		Lead	154	0.500	1	
Cadmium	1.51	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-5'	**08-10-2683-2-A**	**10/30/08 08:40**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:32**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	6.12	0.750	1		Lead	7.31	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS17-0.5'	**08-10-2683-4-A**	**10/30/08 09:07**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:34**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	3.74	0.750	1		Lead	38.0	0.500	1	
Cadmium	0.983	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS17-5'	**08-10-2683-5-A**	**10/30/08 09:12**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:36**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	3.23	0.750	1		Lead	5.94	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-0.5'	**08-10-2683-7-A**	**10/30/08 09:40**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:38**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	7.83	0.750	1		Lead	261	0.500	1	
Cadmium	5.13	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-5'	**08-10-2683-8-A**	**10/30/08 09:45**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:41**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.99	0.750	1		Lead	6.90	0.500	1	
Cadmium	ND	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg
Project: POLA-7th Street Garage		Page 2 of 5

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-10'	**08-10-2683-9-A**	**10/30/08 09:50**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:43**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.40	0.750	1		Lead	7.96	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-0.5'	**08-10-2683-11-A**	**10/30/08 10:30**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 20:47**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	5.48	0.750	1		Lead	143	0.500	1	
Cadmium	2.28	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-5'	**08-10-2683-12-A**	**10/30/08 10:35**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 20:49**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	1.89	0.750	1		Lead	3.60	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-0.5'	**08-10-2683-15-A**	**10/30/08 11:25**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 20:57**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	5.19	0.750	1		Lead	58.7	0.500	1	
Cadmium	0.750	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-5'	**08-10-2683-16-A**	**10/30/08 11:30**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 20:59**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	5.39	0.750	1		Lead	7.74	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-0.5'	**08-10-2683-19-A**	**10/30/08 12:00**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:01**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	4.88	0.750	1		Lead	52.1	0.500	1	
Cadmium	0.966	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-5'	**08-10-2683-20-A**	**10/30/08 12:05**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:04**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	5.51	0.750	1		Lead	7.23	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-0.5'	**08-10-2683-22-A**	**10/30/08 12:50**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:06**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	4.28	0.750	1		Lead	50.9	0.500	1	
Cadmium	1.29	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-1'	**08-10-2683-23-A**	**10/30/08 12:52**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:08**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	4.29	0.750	1		Lead	30.8	0.500	1	
Cadmium	0.569	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-0.5'	**08-10-2683-27-A**	**10/30/08 13:20**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:10**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	4.49	0.750	1		Lead	85.7	0.500	1	
Cadmium	1.48	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-1'	**08-10-2683-28-A**	**10/30/08 13:22**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:12**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	1.74	0.750	1		Lead	22.6	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-0.5'	**08-10-2683-32-A**	**10/30/08 13:55**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:14**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.16	0.750	1		Lead	10.4	0.500	1	
Cadmium	ND	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-1'	**08-10-2683-33-A**	**10/30/08 13:57**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:16**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.90	0.750	1		Lead	19.1	0.500	1	
Cadmium	0.698	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-0.5'	**08-10-2683-36-A**	**10/30/08 14:30**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:24**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	4.43	0.750	1		Lead	493	0.500	1	
Cadmium	2.60	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-1'	**08-10-2683-37-A**	**10/30/08 14:33**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:26**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	9.05	0.750	1		Lead	1180	0.500	1	
Cadmium	11.1	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-0.5'	**08-10-2683-42-A**	**10/30/08 15:10**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:28**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	3.72	0.750	1		Lead	153	0.500	1	
Cadmium	1.40	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-5'	**08-10-2683-43-A**	**10/30/08 15:15**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:30**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	4.84	0.750	1		Lead	5.03	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-11,689**	**N/A**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 20:17**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	ND	0.500	1	
Cadmium	ND	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-11,692**	**N/A**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:12**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	ND	0.500	1	
Cadmium	ND	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3010A Total
	Method:	EPA 6010B
	Units:	mg/L
Project: POLA-7th Street Garage		Page 1 of 1

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-GW	**08-10-2683-14-E**	**10/30/08 11:05**	**Aqueous**	**ICP 5300**	**10/31/08**	**11/04/08 13:10**	**081031LA3**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.220	0.0100	1		Lead	0.285	0.0100	1	
Cadmium	0.0110	0.00500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-003-8,777**	**N/A**	**Aqueous**	**ICP 5300**	**10/31/08**	**11/03/08 10:33**	**081031LA3**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.0100	1		Lead	ND	0.0100	1	
Cadmium	ND	0.00500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-5'	**08-10-2683-2-A**	**10/30/08 08:40**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 06:45**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.20		1	
C7	ND		1		C23-C24	0.19		1	
C8	ND		1		C25-C28	1.7		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.28		1		C33-C36	ND		1	
C13-C14	0.39		1		C37-C40	ND		1	
C15-C16	0.59		1		C41-C44	ND		1	
C17-C18	0.25		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.18		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	61-145	

GS14-9.5'	08-10-2683-3-A	10/30/08 08:45	Solid	GC 3	10/31/08	11/01/08 07:25	081031B05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		2		C21-C22	2.2		2	
C7	ND		2		C23-C24	3.2		2	
C8	ND		2		C25-C28	13		2	
C9-C10	ND		2		C29-C32	14		2	
C11-C12	ND		2		C33-C36	12		2	
C13-C14	0.30		2		C37-C40	14		2	
C15-C16	1.0		2		C41-C44	8.3		2	
C17-C18	1.1		2		C6-C44 Total	70	10	2	
C19-C20	1.7		2						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS17-5'	**08-10-2683-5-A**	**10/30/08 09:12**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 08:06**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	0.090		1	
C8	ND		1		C25-C28	0.85		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.12		1		C33-C36	ND		1	
C13-C14	0.13		1		C37-C40	ND		1	
C15-C16	0.32		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	116	61-145	

GS17-10'	**08-10-2683-6-A**	**10/30/08 09:15**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 08:45**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.39		1	
C7	ND		1		C23-C24	0.22		1	
C8	ND		1		C25-C28	1.4		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.27		1		C33-C36	ND		1	
C13-C14	0.18		1		C37-C40	ND		1	
C15-C16	0.45		1		C41-C44	ND		1	
C17-C18	0.13		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.15		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	115	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-5'	**08-10-2683-8-A**	**10/30/08 09:45**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 09:27**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	0.35		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	113	61-145	

GS13-10'	08-10-2683-9-A	10/30/08 09:50	Solid	GC 3	10/31/08	11/01/08 10:08	081031B05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.11		1	
C7	ND		1		C23-C24	0.084		1	
C8	ND		1		C25-C28	2.7		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.31		1		C33-C36	ND		1	
C13-C14	0.26		1		C37-C40	ND		1	
C15-C16	0.67		1		C41-C44	ND		1	
C17-C18	0.13		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.11		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-5'	**08-10-2683-12-A**	**10/30/08 10:35**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 10:50**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.22		1	
C7	ND		1		C23-C24	0.27		1	
C8	ND		1		C25-C28	0.72		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.17		1		C33-C36	ND		1	
C13-C14	0.30		1		C37-C40	ND		1	
C15-C16	0.49		1		C41-C44	ND		1	
C17-C18	0.11		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.19		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	61-145	

GS15-10'	**08-10-2683-13-A**	**10/30/08 10:40**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 11:30**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.16		1	
C7	ND		1		C23-C24	0.12		1	
C8	ND		1		C25-C28	8.4		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.62		1		C33-C36	ND		1	
C13-C14	0.24		1		C37-C40	ND		1	
C15-C16	1.5		1		C41-C44	ND		1	
C17-C18	0.14		1		C6-C44 Total	11	5.0	1	
C19-C20	0.15		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-5'	**08-10-2683-16-A**	**10/30/08 11:30**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 12:12**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	0.044		1	
C8	ND		1		C25-C28	0.58		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	0.060		1		C37-C40	ND		1	
C15-C16	0.23		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	113	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-10'	**08-10-2683-17-A**	**10/30/08 11:35**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 12:54**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.11		1	
C7	ND		1		C23-C24	0.14		1	
C8	ND		1		C25-C28	4.5		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.44		1		C33-C36	ND		1	
C13-C14	0.30		1		C37-C40	ND		1	
C15-C16	0.86		1		C41-C44	ND		1	
C17-C18	0.12		1		C6-C44 Total	6.6	5.0	1	
C19-C20	0.14		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	121	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-5'	**08-10-2683-20-A**	**10/30/08 12:05**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 14:20**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.0063		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	0.55		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	0.050		1		C37-C40	ND		1	
C15-C16	0.29		1		C41-C44	ND		1	
C17-C18	0.13		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.087		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	126	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-10'	**08-10-2683-21-A**	**10/30/08 12:15**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 15:02**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-1'	**08-10-2683-23-A**	**10/30/08 12:52**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 15:45**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		3		C21-C22	3.8		3	
C7	ND		3		C23-C24	5.9		3	
C8	ND		3		C25-C28	22		3	
C9-C10	ND		3		C29-C32	26		3	
C11-C12	0.27		3		C33-C36	21		3	
C13-C14	0.99		3		C37-C40	34		3	
C15-C16	1.5		3		C41-C44	15		3	
C17-C18	1.6		3		C6-C44 Total	130	15	3	
C19-C20	3.0		3						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	110	61-145	

GS19-5'	**08-10-2683-24-A**	**10/30/08 12:55**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 16:27**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	1.3		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	0.19		1		C37-C40	ND		1	
C15-C16	0.31		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	109	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)
	Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-10'	**08-10-2683-25-A**	**10/30/08 13:00**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 17:09**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.17		1	
C7	ND		1		C23-C24	0.14		1	
C8	ND		1		C25-C28	6.2		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.46		1		C33-C36	ND		1	
C13-C14	0.61		1		C37-C40	ND		1	
C15-C16	1.7		1		C41-C44	ND		1	
C17-C18	0.19		1		C6-C44 Total	9.6	5.0	1	
C19-C20	0.19		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	109	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-5'	**08-10-2683-29-A**	**10/30/08 13:28**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 17:50**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	0.064		1	
C8	ND		1		C25-C28	9.7		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.73		1		C33-C36	ND		1	
C13-C14	0.32		1		C37-C40	ND		1	
C15-C16	1.7		1		C41-C44	ND		1	
C17-C18	0.17		1		C6-C44 Total	13	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)
	Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-10'	**08-10-2683-30-A**	**10/30/08 13:40**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 18:31**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.42		1	
C7	ND		1		C23-C24	0.82		1	
C8	ND		1		C25-C28	1.0		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.36		1		C33-C36	ND		1	
C13-C14	0.34		1		C37-C40	ND		1	
C15-C16	0.55		1		C41-C44	ND		1	
C17-C18	0.18		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.17		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	118	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-5'	**08-10-2683-34-A**	**10/30/08 14:01**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 19:13**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	2.6		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)
	Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-10'	**08-10-2683-35-A**	**10/30/08 14:05**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 19:53**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	115	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-5'	**08-10-2683-38-A**	**10/30/08 14:40**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 20:34**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.95		1	
C7	ND		1		C23-C24	4.3		1	
C8	ND		1		C25-C28	2.6		1	
C9-C10	0.034		1		C29-C32	1.6		1	
C11-C12	0.12		1		C33-C36	0.096		1	
C13-C14	0.21		1		C37-C40	ND		1	
C15-C16	0.40		1		C41-C44	ND		1	
C17-C18	0.17		1		C6-C44 Total	11	5.0	1	
C19-C20	0.42		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-10'	**08-10-2683-39-A**	**10/30/08 14:45**	**Solid**	**GC 3**	**10/31/08**	**10/31/08 22:12**	**081031B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.17		1	
C7	ND		1		C23-C24	8.0		1	
C8	ND		1		C25-C28	0.10		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.20		1		C33-C36	ND		1	
C13-C14	0.27		1		C37-C40	ND		1	
C15-C16	0.56		1		C41-C44	ND		1	
C17-C18	0.37		1		C6-C44 Total	10	5.0	1	
C19-C20	0.82		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-5'	**08-10-2683-43-A**	**10/30/08 15:15**	**Solid**	**GC 3**	**10/31/08**	**10/31/08 22:52**	**081031B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.32		1	
C7	ND		1		C23-C24	0.31		1	
C8	ND		1		C25-C28	0.34		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.16		1		C33-C36	ND		1	
C13-C14	0.22		1		C37-C40	ND		1	
C15-C16	0.50		1		C41-C44	ND		1	
C17-C18	0.27		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.20		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-10'	**08-10-2683-44-A**	**10/30/08 15:20**	**Solid**	**GC 3**	**10/31/08**	**10/31/08 23:32**	**081031B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.17		1	
C7	ND		1		C23-C24	0.25		1	
C8	ND		1		C25-C28	3.5		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.30		1		C33-C36	ND		1	
C13-C14	0.26		1		C37-C40	ND		1	
C15-C16	1.0		1		C41-C44	ND		1	
C17-C18	0.27		1		C6-C44 Total	5.9	5.0	1	
C19-C20	0.20		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	61-145	

Method Blank	**099-12-275-2,274**	**N/A**	**Solid**	**GC 3**	**10/31/08**	**10/31/08 18:56**	**081031B06**

Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	5.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	110	61-145	

Method Blank	**099-12-275-2,275**	**N/A**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 03:26**	**081031B05**

Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	5.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	113	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-GW	**08-10-2683-10-E**	**10/30/08 10:00**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 19:37**	**081031B09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	16		1		C21-C22	41		1	
C7	81		1		C23-C24	65		1	
C8	100		1		C25-C28	81		1	
C9-C10	59		1		C29-C32	49		1	
C11-C12	19		1		C33-C36	19		1	
C13-C14	10		1		C37-C40	10		1	
C15-C16	24		1		C41-C44	21		1	
C17-C18	31		1		C6-C44 Total	690	50	1	
C19-C20	60		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-GW	**08-10-2683-14-E**	**10/30/08 11:05**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 19:54**	**081031B09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	1.4		1		C21-C22	65		1	
C7	10		1		C23-C24	110		1	
C8	2.7		1		C25-C28	130		1	
C9-C10	5.2		1		C29-C32	92		1	
C11-C12	5.2		1		C33-C36	41		1	
C13-C14	13		1		C37-C40	13		1	
C15-C16	28		1		C41-C44	45		1	
C17-C18	40		1		C6-C44 Total	660	50	1	
C19-C20	61		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-GW	**08-10-2683-18-E**	**10/30/08 11:45**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 20:46**	**081031B09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	2.1		1		C21-C22	31		1	
C7	17		1		C23-C24	48		1	
C8	12		1		C25-C28	50		1	
C9-C10	10		1		C29-C32	30		1	
C11-C12	8.5		1		C33-C36	8.5		1	
C13-C14	7.8		1		C37-C40	3.0		1	
C15-C16	12		1		C41-C44	22		1	
C17-C18	17		1		C6-C44 Total	310	50	1	
C19-C20	28		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-GW	**08-10-2683-26-E**	**10/30/08 13:10**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 21:03**	**081031B09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	12		1	
C7	4.4		1		C23-C24	19		1	
C8	2.8		1		C25-C28	25		1	
C9-C10	3.3		1		C29-C32	20		1	
C11-C12	2.7		1		C33-C36	11		1	
C13-C14	2.0		1		C37-C40	4.0		1	
C15-C16	2.5		1		C41-C44	15		1	
C17-C18	3.3		1		C6-C44 Total	140	50	1	
C19-C20	10		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-GW	**08-10-2683-31-E**	**10/30/08 13:50**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 21:20**	**081031B09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	12		1	
C7	6.8		1		C23-C24	24		1	
C8	2.1		1		C25-C28	24		1	
C9-C10	2.4		1		C29-C32	20		1	
C11-C12	2.6		1		C33-C36	8.1		1	
C13-C14	2.8		1		C37-C40	8.4		1	
C15-C16	4.6		1		C41-C44	25		1	
C17-C18	5.8		1		C6-C44 Total	160	50	1	
C19-C20	11		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	88	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-GW	**08-10-2683-40-E**	**10/30/08 14:15**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 21:37**	**081031B09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	17		1	
C7	8.1		1		C23-C24	34		1	
C8	1.7		1		C25-C28	30		1	
C9-C10	3.2		1		C29-C32	21		1	
C11-C12	3.6		1		C33-C36	4.3		1	
C13-C14	2.6		1		C37-C40	10		1	
C15-C16	6.6		1		C41-C44	14		1	
C17-C18	9.6		1		C6-C44 Total	180	50	1	
C19-C20	18		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-GW	**08-10-2683-41-E**	**10/30/08 15:00**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 21:54**	**081031B09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	71		1	
C7	10		1		C23-C24	95		1	
C8	3.8		1		C25-C28	120		1	
C9-C10	3.8		1		C29-C32	58		1	
C11-C12	5.1		1		C33-C36	23		1	
C13-C14	8.7		1		C37-C40	4.6		1	
C15-C16	33		1		C41-C44	30		1	
C17-C18	63		1		C6-C44 Total	620	50	1	
C19-C20	88		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-GW	**08-10-2683-45-E**	**10/30/08 15:30**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 22:11**	**081031B09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	21		1	
C7	6.7		1		C23-C24	30		1	
C8	2.6		1		C25-C28	30		1	
C9-C10	4.3		1		C29-C32	20		1	
C11-C12	5.4		1		C33-C36	7.9		1	
C13-C14	4.9		1		C37-C40	3.5		1	
C15-C16	6.6		1		C41-C44	17		1	
C17-C18	9.7		1		C6-C44 Total	190	50	1	
C19-C20	18		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-330-801**	**N/A**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 15:56**	**081031B09**

Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-5'	**08-10-2683-2-A**	**10/30/08 08:40**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 16:26**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	94	18-162			2-Fluorobiphenyl	83	14-146		
p-Terphenyl-d14	72	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS17-10'	**08-10-2683-6-A**	**10/30/08 09:15**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 17:12**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	102	18-162			2-Fluorobiphenyl	91	14-146		
p-Terphenyl-d14	76	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-0.5'	**08-10-2683-7-A**	**10/30/08 09:40**	**Solid**	**GC/MS GG**	**10/31/08**	**11/06/08 01:09**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	99	18-162			2-Fluorobiphenyl	84	14-146		
p-Terphenyl-d14	94	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-5'	**08-10-2683-8-A**	**10/30/08 09:45**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 17:58**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	97	18-162			2-Fluorobiphenyl	83	14-146		
p-Terphenyl-d14	67	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-5'	**08-10-2683-12-A**	**10/30/08 10:35**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 18:44**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	210	18-162		2	2-Fluorobiphenyl	183	14-146		2
p-Terphenyl-d14	56	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-5'	**08-10-2683-16-A**	**10/30/08 11:30**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 19:30**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	52	18-162			2-Fluorobiphenyl	50	14-146		
p-Terphenyl-d14	41	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-10'	**08-10-2683-21-A**	**10/30/08 12:15**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 20:17**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	91	18-162			2-Fluorobiphenyl	82	14-146		
p-Terphenyl-d14	68	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-5'	**08-10-2683-24-A**	**10/30/08 12:55**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 21:02**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	73	18-162			2-Fluorobiphenyl	70	14-146		
p-Terphenyl-d14	59	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-1'	**08-10-2683-28-A**	**10/30/08 13:22**	**Solid**	**GC/MS GG**	**10/31/08**	**11/06/08 01:55**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	0.033	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	0.030	0.020	1		Chrysene	0.023	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	0.035	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	0.029	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	305	18-162		2	2-Fluorobiphenyl	357	14-146		2
p-Terphenyl-d14	104	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-10'	**08-10-2683-35-A**	**10/30/08 14:05**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 21:49**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	83	18-162			2-Fluorobiphenyl	76	14-146		
p-Terphenyl-d14	67	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-5'	**08-10-2683-38-A**	**10/30/08 14:40**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 22:35**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	91	18-162			2-Fluorobiphenyl	83	14-146		
p-Terphenyl-d14	72	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-5'	**08-10-2683-43-A**	**10/30/08 15:15**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 23:22**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	89	18-162			2-Fluorobiphenyl	83	14-146		
p-Terphenyl-d14	62	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-06-010-241**	**N/A**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 11:49**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	109	18-162			2-Fluorobiphenyl	92	14-146		
p-Terphenyl-d14	73	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-0.5'	**08-10-2683-1-A**	**10/30/08 08:35**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 16:40**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	55	50-130			2,4,5,6-Tetrachloro-m-Xylene	53	50-130		

GS14-5'	**08-10-2683-2-A**	**10/30/08 08:40**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 16:59**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	54	50-130			2,4,5,6-Tetrachloro-m-Xylene	53	50-130		

GS17-0.5'	**08-10-2683-4-A**	**10/30/08 09:07**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 17:18**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	88	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	58	50-130			2,4,5,6-Tetrachloro-m-Xylene	71	50-130		

GS17-5'	**08-10-2683-5-A**	**10/30/08 09:12**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 18:15**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	58	50-130			2,4,5,6-Tetrachloro-m-Xylene	54	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-0.5'	**08-10-2683-7-A**	**10/30/08 09:40**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 18:34**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	63	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	64	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	59	50-130			2,4,5,6-Tetrachloro-m-Xylene	59	50-130		

GS13-5'	08-10-2683-8-A	10/30/08 09:45	Solid	GC 31	10/31/08	11/06/08 12:45	081031L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	86	50-130			2,4,5,6-Tetrachloro-m-Xylene	66	50-130		

GS15-0.5'	08-10-2683-11-A	10/30/08 10:30	Solid	GC 31	10/31/08	11/06/08 13:04	081031L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	54	50-130			2,4,5,6-Tetrachloro-m-Xylene	67	50-130		

GS15-5'	08-10-2683-12-A	10/30/08 10:35	Solid	GC 31	10/31/08	11/05/08 22:03	081031L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	65	50-130			2,4,5,6-Tetrachloro-m-Xylene	93	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-0.5'	**08-10-2683-15-A**	**10/30/08 11:25**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 19:51**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	55	50-130			2,4,5,6-Tetrachloro-m-Xylene	62	50-130		

GS16-5'	**08-10-2683-16-A**	**10/30/08 11:30**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 22:32**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	69	50-130			2,4,5,6-Tetrachloro-m-Xylene	59	50-130		

GS18-0.5'	**08-10-2683-19-A**	**10/30/08 12:00**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 22:51**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	300	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	340	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	56	50-130			2,4,5,6-Tetrachloro-m-Xylene	58	50-130		

GS18-5'	**08-10-2683-20-A**	**10/30/08 12:05**	**Solid**	**GC 31**	**10/31/08**	**11/05/08 22:22**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	63	50-130			2,4,5,6-Tetrachloro-m-Xylene	83	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-0.5'	**08-10-2683-22-A**	**10/30/08 12:50**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 23:29**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	68	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	56	50-130			2,4,5,6-Tetrachloro-m-Xylene	51	50-130		

GS19-1'	**08-10-2683-23-A**	**10/30/08 12:52**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 23:48**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	120	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	52	50-130			2,4,5,6-Tetrachloro-m-Xylene	57	50-130		

GS20-0.5'	**08-10-2683-27-A**	**10/30/08 13:20**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 00:07**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	97	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	94	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	59	50-130			2,4,5,6-Tetrachloro-m-Xylene	61	50-130		

GS20-1'	**08-10-2683-28-A**	**10/30/08 13:22**	**Solid**	**GC 31**	**10/31/08**	**11/06/08 13:23**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	74	50-130			2,4,5,6-Tetrachloro-m-Xylene	59	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-0.5'	**08-10-2683-32-A**	**10/30/08 13:55**	**Solid**	**GC 31**	**10/31/08**	**11/05/08 23:19**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	100	2		Aroclor-1248	1600	100	2	
Aroclor-1221	ND	100	2		Aroclor-1254	590	100	2	
Aroclor-1232	ND	100	2		Aroclor-1260	ND	100	2	
Aroclor-1242	ND	100	2		Aroclor-1262	ND	100	2	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	63	50-130			2,4,5,6-Tetrachloro-m-Xylene	79	50-130		

GS23-1'	**08-10-2683-33-A**	**10/30/08 13:57**	**Solid**	**GC 31**	**10/31/08**	**11/06/08 13:42**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	60	50-130			2,4,5,6-Tetrachloro-m-Xylene	62	50-130		

GS23-5'	**08-10-2683-34-A**	**10/30/08 14:01**	**Solid**	**GC 31**	**10/31/08**	**11/05/08 23:57**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	57	50-130			2,4,5,6-Tetrachloro-m-Xylene	55	50-130		

GS22-0.5'	**08-10-2683-36-A**	**10/30/08 14:30**	**Solid**	**GC 31**	**10/31/08**	**11/06/08 14:01**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	81	50-130			2,4,5,6-Tetrachloro-m-Xylene	61	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-1'	**08-10-2683-37-A**	**10/30/08 14:33**	**Solid**	**GC 16**	**10/31/08**	**11/05/08 20:14**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	250	5		Aroclor-1248	2100	250	5	
Aroclor-1221	ND	250	5		Aroclor-1254	1100	250	5	
Aroclor-1232	ND	250	5		Aroclor-1260	ND	250	5	
Aroclor-1242	ND	250	5		Aroclor-1262	ND	250	5	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	53	50-130			2,4,5,6-Tetrachloro-m-Xylene	71	50-130		

GS21-0.5'	**08-10-2683-42-A**	**10/30/08 15:10**	**Solid**	**GC 16**	**10/31/08**	**11/04/08 20:48**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	55	50-130			2,4,5,6-Tetrachloro-m-Xylene	71	50-130		

GS21-5'	**08-10-2683-43-A**	**10/30/08 15:15**	**Solid**	**GC 16**	**10/31/08**	**11/04/08 21:07**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	60	50-130			2,4,5,6-Tetrachloro-m-Xylene	80	50-130		

Method Blank	**099-12-535-486**	**N/A**	**Solid**	**GC 16**	**10/31/08**	**11/03/08 10:51**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	84	50-130			2,4,5,6-Tetrachloro-m-Xylene	108	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-535-488**	**N/A**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 13:46**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	119	50-130			2,4,5,6-Tetrachloro-m-Xylene	91	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-GW	**08-10-2683-10-D**	**10/30/08 10:00**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 14:23**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	113	82-130			1,2-Dichloroethane-d4	102	75-141		
Toluene-d8	98	83-113			1,4-Bromofluorobenzene	88	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-GW	**08-10-2683-14-D**	**10/30/08 11:05**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 14:50**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	82-130		1,2-Dichloroethane-d4	98	75-141	
Toluene-d8	97	83-113		1,4-Bromofluorobenzene	91	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-GW	**08-10-2683-18-A**	**10/30/08 11:45**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 15:18**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	115	82-130		1,2-Dichloroethane-d4	104	75-141	
Toluene-d8	98	83-113		1,4-Bromofluorobenzene	89	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-GW	**08-10-2683-26-D**	**10/30/08 13:10**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 15:45**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	1.8	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	82-130		1,2-Dichloroethane-d4	102	75-141	
Toluene-d8	101	83-113		1,4-Bromofluorobenzene	91	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-GW	**08-10-2683-31-D**	**10/30/08 13:50**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 16:12**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	2.8	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	4.5	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	1.5	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	82-130		1,2-Dichloroethane-d4	103	75-141	
Toluene-d8	101	83-113		1,4-Bromofluorobenzene	93	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-GW	**08-10-2683-40-D**	**10/30/08 14:15**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 16:39**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	116	82-130		1,2-Dichloroethane-d4	105	75-141	
Toluene-d8	102	83-113		1,4-Bromofluorobenzene	93	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-GW	**08-10-2683-41-D**	**10/30/08 15:00**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 17:06**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	82-130		1,2-Dichloroethane-d4	102	75-141	
Toluene-d8	101	83-113		1,4-Bromofluorobenzene	90	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-GW	**08-10-2683-45-C**	**10/30/08 15:30**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 17:34**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	117	82-130			1,2-Dichloroethane-d4	103	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	90	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-27,366**	**N/A**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 12:06**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	20	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	20	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	110	82-130			1,2-Dichloroethane-d4	101	75-141		
Toluene-d8	97	83-113			1,4-Bromofluorobenzene	92	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-5'	**08-10-2683-8-C**	**10/30/08 09:45**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 13:42**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	46	0.928		1,3-Dichloropropane	ND	0.93	0.928	
Benzene	ND	0.93	0.928		2,2-Dichloropropane	ND	4.6	0.928	
Bromobenzene	ND	0.93	0.928		1,1-Dichloropropene	ND	1.9	0.928	
Bromochloromethane	ND	1.9	0.928		c-1,3-Dichloropropene	ND	0.93	0.928	
Bromodichloromethane	ND	0.93	0.928		t-1,3-Dichloropropene	ND	1.9	0.928	
Bromoform	ND	4.6	0.928		Ethylbenzene	ND	0.93	0.928	
Bromomethane	ND	19	0.928		2-Hexanone	ND	19	0.928	
2-Butanone	ND	19	0.928		Isopropylbenzene	ND	0.93	0.928	
n-Butylbenzene	ND	0.93	0.928		p-Isopropyltoluene	ND	0.93	0.928	
sec-Butylbenzene	ND	0.93	0.928		Methylene Chloride	ND	9.3	0.928	
tert-Butylbenzene	ND	0.93	0.928		4-Methyl-2-Pentanone	ND	19	0.928	
Carbon Disulfide	ND	9.3	0.928		Naphthalene	ND	9.3	0.928	
Carbon Tetrachloride	ND	0.93	0.928		n-Propylbenzene	ND	1.9	0.928	
Chlorobenzene	ND	0.93	0.928		Styrene	ND	0.93	0.928	
Chloroethane	ND	1.9	0.928		1,1,1,2-Tetrachloroethane	ND	0.93	0.928	
Chloroform	ND	0.93	0.928		1,1,2,2-Tetrachloroethane	ND	1.9	0.928	
Chloromethane	ND	19	0.928		Tetrachloroethene	ND	0.93	0.928	
2-Chlorotoluene	ND	0.93	0.928		Toluene	8.6	0.93	0.928	
4-Chlorotoluene	ND	0.93	0.928		1,2,3-Trichlorobenzene	ND	1.9	0.928	
Dibromochloromethane	ND	1.9	0.928		1,2,4-Trichlorobenzene	ND	1.9	0.928	
1,2-Dibromo-3-Chloropropane	ND	4.6	0.928		1,1,1-Trichloroethane	ND	0.93	0.928	
1,2-Dibromoethane	ND	0.93	0.928		1,1,2-Trichloroethane	ND	0.93	0.928	
Dibromomethane	ND	0.93	0.928		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.3	0.928	
1,2-Dichlorobenzene	ND	0.93	0.928		Trichloroethene	ND	1.9	0.928	
1,3-Dichlorobenzene	ND	0.93	0.928		Trichlorofluoromethane	ND	9.3	0.928	
1,4-Dichlorobenzene	ND	0.93	0.928		1,2,3-Trichloropropane	ND	1.9	0.928	
Dichlorodifluoromethane	ND	1.9	0.928		1,2,4-Trimethylbenzene	ND	1.9	0.928	
1,1-Dichloroethane	ND	0.93	0.928		1,3,5-Trimethylbenzene	ND	1.9	0.928	
1,2-Dichloroethane	ND	0.93	0.928		Vinyl Acetate	ND	9.3	0.928	
1,1-Dichloroethene	ND	0.93	0.928		Vinyl Chloride	ND	0.93	0.928	
c-1,2-Dichloroethene	ND	0.93	0.928		p/m-Xylene	ND	1.9	0.928	
t-1,2-Dichloroethene	ND	0.93	0.928		o-Xylene	ND	0.93	0.928	
1,2-Dichloropropane	ND	0.93	0.928		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.928	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	119	71-137		1,2-Dichloroethane-d4	128	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-10'	**08-10-2683-9-C**	**10/30/08 09:50**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 14:09**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.845		1,3-Dichloropropane	ND	0.84	0.845	
Benzene	ND	0.84	0.845		2,2-Dichloropropane	ND	4.2	0.845	
Bromobenzene	ND	0.84	0.845		1,1-Dichloropropene	ND	1.7	0.845	
Bromochloromethane	ND	1.7	0.845		c-1,3-Dichloropropene	ND	0.84	0.845	
Bromodichloromethane	ND	0.84	0.845		t-1,3-Dichloropropene	ND	1.7	0.845	
Bromoform	ND	4.2	0.845		Ethylbenzene	ND	0.84	0.845	
Bromomethane	ND	17	0.845		2-Hexanone	ND	17	0.845	
2-Butanone	ND	17	0.845		Isopropylbenzene	ND	0.84	0.845	
n-Butylbenzene	ND	0.84	0.845		p-Isopropyltoluene	ND	0.84	0.845	
sec-Butylbenzene	ND	0.84	0.845		Methylene Chloride	ND	8.4	0.845	
tert-Butylbenzene	ND	0.84	0.845		4-Methyl-2-Pentanone	ND	17	0.845	
Carbon Disulfide	ND	8.4	0.845		Naphthalene	ND	8.4	0.845	
Carbon Tetrachloride	ND	0.84	0.845		n-Propylbenzene	ND	1.7	0.845	
Chlorobenzene	ND	0.84	0.845		Styrene	ND	0.84	0.845	
Chloroethane	ND	1.7	0.845		1,1,1,2-Tetrachloroethane	ND	0.84	0.845	
Chloroform	ND	0.84	0.845		1,1,2,2-Tetrachloroethane	ND	1.7	0.845	
Chloromethane	ND	17	0.845		Tetrachloroethene	ND	0.84	0.845	
2-Chlorotoluene	ND	0.84	0.845		Toluene	2.4	0.84	0.845	
4-Chlorotoluene	ND	0.84	0.845		1,2,3-Trichlorobenzene	ND	1.7	0.845	
Dibromochloromethane	ND	1.7	0.845		1,2,4-Trichlorobenzene	ND	1.7	0.845	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.845		1,1,1-Trichloroethane	ND	0.84	0.845	
1,2-Dibromoethane	ND	0.84	0.845		1,1,2-Trichloroethane	ND	0.84	0.845	
Dibromomethane	ND	0.84	0.845		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	0.845	
1,2-Dichlorobenzene	ND	0.84	0.845		Trichloroethene	ND	1.7	0.845	
1,3-Dichlorobenzene	ND	0.84	0.845		Trichlorofluoromethane	ND	8.4	0.845	
1,4-Dichlorobenzene	ND	0.84	0.845		1,2,3-Trichloropropane	ND	1.7	0.845	
Dichlorodifluoromethane	ND	1.7	0.845		1,2,4-Trimethylbenzene	ND	1.7	0.845	
1,1-Dichloroethane	ND	0.84	0.845		1,3,5-Trimethylbenzene	ND	1.7	0.845	
1,2-Dichloroethane	ND	0.84	0.845		Vinyl Acetate	ND	8.4	0.845	
1,1-Dichloroethene	ND	0.84	0.845		Vinyl Chloride	ND	0.84	0.845	
c-1,2-Dichloroethene	ND	0.84	0.845		p/m-Xylene	ND	1.7	0.845	
t-1,2-Dichloroethene	ND	0.84	0.845		o-Xylene	ND	0.84	0.845	
1,2-Dichloropropane	ND	0.84	0.845		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.845	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	118	71-137			1,2-Dichloroethane-d4	133	58-160		
1,4-Bromofluorobenzene	91	66-126			Toluene-d8	101	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-5'	**08-10-2683-12-C**	**10/30/08 10:35**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 14:35**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.822		1,3-Dichloropropane	ND	0.82	0.822	
Benzene	ND	0.82	0.822		2,2-Dichloropropane	ND	4.1	0.822	
Bromobenzene	ND	0.82	0.822		1,1-Dichloropropene	ND	1.6	0.822	
Bromochloromethane	ND	1.6	0.822		c-1,3-Dichloropropene	ND	0.82	0.822	
Bromodichloromethane	ND	0.82	0.822		t-1,3-Dichloropropene	ND	1.6	0.822	
Bromoform	ND	4.1	0.822		Ethylbenzene	ND	0.82	0.822	
Bromomethane	ND	16	0.822		2-Hexanone	ND	16	0.822	
2-Butanone	ND	16	0.822		Isopropylbenzene	ND	0.82	0.822	
n-Butylbenzene	ND	0.82	0.822		p-Isopropyltoluene	ND	0.82	0.822	
sec-Butylbenzene	ND	0.82	0.822		Methylene Chloride	ND	8.2	0.822	
tert-Butylbenzene	ND	0.82	0.822		4-Methyl-2-Pentanone	ND	16	0.822	
Carbon Disulfide	ND	8.2	0.822		Naphthalene	ND	8.2	0.822	
Carbon Tetrachloride	ND	0.82	0.822		n-Propylbenzene	ND	1.6	0.822	
Chlorobenzene	ND	0.82	0.822		Styrene	ND	0.82	0.822	
Chloroethane	ND	1.6	0.822		1,1,1,2-Tetrachloroethane	ND	0.82	0.822	
Chloroform	ND	0.82	0.822		1,1,2,2-Tetrachloroethane	ND	1.6	0.822	
Chloromethane	ND	16	0.822		Tetrachloroethene	ND	0.82	0.822	
2-Chlorotoluene	ND	0.82	0.822		Toluene	ND	0.82	0.822	
4-Chlorotoluene	ND	0.82	0.822		1,2,3-Trichlorobenzene	ND	1.6	0.822	
Dibromochloromethane	ND	1.6	0.822		1,2,4-Trichlorobenzene	ND	1.6	0.822	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.822		1,1,1-Trichloroethane	ND	0.82	0.822	
1,2-Dibromoethane	ND	0.82	0.822		1,1,2-Trichloroethane	ND	0.82	0.822	
Dibromomethane	ND	0.82	0.822		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.822	
1,2-Dichlorobenzene	ND	0.82	0.822		Trichloroethene	ND	1.6	0.822	
1,3-Dichlorobenzene	ND	0.82	0.822		Trichlorofluoromethane	ND	8.2	0.822	
1,4-Dichlorobenzene	ND	0.82	0.822		1,2,3-Trichloropropane	ND	1.6	0.822	
Dichlorodifluoromethane	ND	1.6	0.822		1,2,4-Trimethylbenzene	ND	1.6	0.822	
1,1-Dichloroethane	ND	0.82	0.822		1,3,5-Trimethylbenzene	ND	1.6	0.822	
1,2-Dichloroethane	ND	0.82	0.822		Vinyl Acetate	ND	8.2	0.822	
1,1-Dichloroethene	ND	0.82	0.822		Vinyl Chloride	ND	0.82	0.822	
c-1,2-Dichloroethene	ND	0.82	0.822		p/m-Xylene	ND	1.6	0.822	
t-1,2-Dichloroethene	ND	0.82	0.822		o-Xylene	ND	0.82	0.822	
1,2-Dichloropropane	ND	0.82	0.822		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.822	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	118	71-137		1,2-Dichloroethane-d4	130	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-10'	**08-10-2683-13-C**	**10/30/08 10:40**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 15:01**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.821		1,3-Dichloropropane	ND	0.82	0.821	
Benzene	ND	0.82	0.821		2,2-Dichloropropane	ND	4.1	0.821	
Bromobenzene	ND	0.82	0.821		1,1-Dichloropropene	ND	1.6	0.821	
Bromochloromethane	ND	1.6	0.821		c-1,3-Dichloropropene	ND	0.82	0.821	
Bromodichloromethane	ND	0.82	0.821		t-1,3-Dichloropropene	ND	1.6	0.821	
Bromoform	ND	4.1	0.821		Ethylbenzene	ND	0.82	0.821	
Bromomethane	ND	16	0.821		2-Hexanone	ND	16	0.821	
2-Butanone	ND	16	0.821		Isopropylbenzene	ND	0.82	0.821	
n-Butylbenzene	ND	0.82	0.821		p-Isopropyltoluene	ND	0.82	0.821	
sec-Butylbenzene	ND	0.82	0.821		Methylene Chloride	ND	8.2	0.821	
tert-Butylbenzene	ND	0.82	0.821		4-Methyl-2-Pentanone	ND	16	0.821	
Carbon Disulfide	ND	8.2	0.821		Naphthalene	ND	8.2	0.821	
Carbon Tetrachloride	ND	0.82	0.821		n-Propylbenzene	ND	1.6	0.821	
Chlorobenzene	ND	0.82	0.821		Styrene	ND	0.82	0.821	
Chloroethane	ND	1.6	0.821		1,1,1,2-Tetrachloroethane	ND	0.82	0.821	
Chloroform	ND	0.82	0.821		1,1,2,2-Tetrachloroethane	ND	1.6	0.821	
Chloromethane	ND	16	0.821		Tetrachloroethene	ND	0.82	0.821	
2-Chlorotoluene	ND	0.82	0.821		Toluene	1.3	0.82	0.821	
4-Chlorotoluene	ND	0.82	0.821		1,2,3-Trichlorobenzene	ND	1.6	0.821	
Dibromochloromethane	ND	1.6	0.821		1,2,4-Trichlorobenzene	ND	1.6	0.821	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.821		1,1,1-Trichloroethane	ND	0.82	0.821	
1,2-Dibromoethane	ND	0.82	0.821		1,1,2-Trichloroethane	ND	0.82	0.821	
Dibromomethane	ND	0.82	0.821		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.821	
1,2-Dichlorobenzene	ND	0.82	0.821		Trichloroethene	ND	1.6	0.821	
1,3-Dichlorobenzene	ND	0.82	0.821		Trichlorofluoromethane	ND	8.2	0.821	
1,4-Dichlorobenzene	ND	0.82	0.821		1,2,3-Trichloropropane	ND	1.6	0.821	
Dichlorodifluoromethane	ND	1.6	0.821		1,2,4-Trimethylbenzene	ND	1.6	0.821	
1,1-Dichloroethane	ND	0.82	0.821		1,3,5-Trimethylbenzene	ND	1.6	0.821	
1,2-Dichloroethane	ND	0.82	0.821		Vinyl Acetate	ND	8.2	0.821	
1,1-Dichloroethene	ND	0.82	0.821		Vinyl Chloride	ND	0.82	0.821	
c-1,2-Dichloroethene	ND	0.82	0.821		p/m-Xylene	ND	1.6	0.821	
t-1,2-Dichloroethene	ND	0.82	0.821		o-Xylene	ND	0.82	0.821	
1,2-Dichloropropane	ND	0.82	0.821		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.821	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	118	71-137		1,2-Dichloroethane-d4	131	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 5 of 19

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-5'	**08-10-2683-16-C**	**10/30/08 11:30**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 15:27**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	44	0.871		1,3-Dichloropropane	ND	0.87	0.871	
Benzene	ND	0.87	0.871		2,2-Dichloropropane	ND	4.4	0.871	
Bromobenzene	ND	0.87	0.871		1,1-Dichloropropene	ND	1.7	0.871	
Bromochloromethane	ND	1.7	0.871		c-1,3-Dichloropropene	ND	0.87	0.871	
Bromodichloromethane	ND	0.87	0.871		t-1,3-Dichloropropene	ND	1.7	0.871	
Bromoform	ND	4.4	0.871		Ethylbenzene	ND	0.87	0.871	
Bromomethane	ND	17	0.871		2-Hexanone	ND	17	0.871	
2-Butanone	ND	17	0.871		Isopropylbenzene	ND	0.87	0.871	
n-Butylbenzene	ND	0.87	0.871		p-Isopropyltoluene	ND	0.87	0.871	
sec-Butylbenzene	ND	0.87	0.871		Methylene Chloride	ND	8.7	0.871	
tert-Butylbenzene	ND	0.87	0.871		4-Methyl-2-Pentanone	ND	17	0.871	
Carbon Disulfide	ND	8.7	0.871		Naphthalene	ND	8.7	0.871	
Carbon Tetrachloride	ND	0.87	0.871		n-Propylbenzene	ND	1.7	0.871	
Chlorobenzene	ND	0.87	0.871		Styrene	ND	0.87	0.871	
Chloroethane	ND	1.7	0.871		1,1,1,2-Tetrachloroethane	ND	0.87	0.871	
Chloroform	ND	0.87	0.871		1,1,2,2-Tetrachloroethane	ND	1.7	0.871	
Chloromethane	ND	17	0.871		Tetrachloroethene	ND	0.87	0.871	
2-Chlorotoluene	ND	0.87	0.871		Toluene	3.0	0.87	0.871	
4-Chlorotoluene	ND	0.87	0.871		1,2,3-Trichlorobenzene	ND	1.7	0.871	
Dibromochloromethane	ND	1.7	0.871		1,2,4-Trichlorobenzene	ND	1.7	0.871	
1,2-Dibromo-3-Chloropropane	ND	4.4	0.871		1,1,1-Trichloroethane	ND	0.87	0.871	
1,2-Dibromoethane	ND	0.87	0.871		1,1,2-Trichloroethane	ND	0.87	0.871	
Dibromomethane	ND	0.87	0.871		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.7	0.871	
1,2-Dichlorobenzene	ND	0.87	0.871		Trichloroethene	ND	1.7	0.871	
1,3-Dichlorobenzene	ND	0.87	0.871		Trichlorofluoromethane	ND	8.7	0.871	
1,4-Dichlorobenzene	ND	0.87	0.871		1,2,3-Trichloropropane	ND	1.7	0.871	
Dichlorodifluoromethane	ND	1.7	0.871		1,2,4-Trimethylbenzene	ND	1.7	0.871	
1,1-Dichloroethane	ND	0.87	0.871		1,3,5-Trimethylbenzene	ND	1.7	0.871	
1,2-Dichloroethane	ND	0.87	0.871		Vinyl Acetate	ND	8.7	0.871	
1,1-Dichloroethene	ND	0.87	0.871		Vinyl Chloride	ND	0.87	0.871	
c-1,2-Dichloroethene	ND	0.87	0.871		p/m-Xylene	ND	1.7	0.871	
t-1,2-Dichloroethene	ND	0.87	0.871		o-Xylene	ND	0.87	0.871	
1,2-Dichloropropane	ND	0.87	0.871		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.871	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	122	71-137		1,2-Dichloroethane-d4	136	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 6 of 19

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-10'	**08-10-2683-17-C**	**10/30/08 11:35**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 15:53**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.846		1,3-Dichloropropane	ND	0.85	0.846	
Benzene	ND	0.85	0.846		2,2-Dichloropropane	ND	4.2	0.846	
Bromobenzene	ND	0.85	0.846		1,1-Dichloropropene	ND	1.7	0.846	
Bromochloromethane	ND	1.7	0.846		c-1,3-Dichloropropene	ND	0.85	0.846	
Bromodichloromethane	ND	0.85	0.846		t-1,3-Dichloropropene	ND	1.7	0.846	
Bromoform	ND	4.2	0.846		Ethylbenzene	ND	0.85	0.846	
Bromomethane	ND	17	0.846		2-Hexanone	ND	17	0.846	
2-Butanone	ND	17	0.846		Isopropylbenzene	ND	0.85	0.846	
n-Butylbenzene	ND	0.85	0.846		p-Isopropyltoluene	ND	0.85	0.846	
sec-Butylbenzene	ND	0.85	0.846		Methylene Chloride	ND	8.5	0.846	
tert-Butylbenzene	ND	0.85	0.846		4-Methyl-2-Pentanone	ND	17	0.846	
Carbon Disulfide	ND	8.5	0.846		Naphthalene	ND	8.5	0.846	
Carbon Tetrachloride	ND	0.85	0.846		n-Propylbenzene	ND	1.7	0.846	
Chlorobenzene	ND	0.85	0.846		Styrene	ND	0.85	0.846	
Chloroethane	ND	1.7	0.846		1,1,1,2-Tetrachloroethane	ND	0.85	0.846	
Chloroform	ND	0.85	0.846		1,1,2,2-Tetrachloroethane	ND	1.7	0.846	
Chloromethane	ND	17	0.846		Tetrachloroethene	ND	0.85	0.846	
2-Chlorotoluene	ND	0.85	0.846		Toluene	4.7	0.85	0.846	
4-Chlorotoluene	ND	0.85	0.846		1,2,3-Trichlorobenzene	ND	1.7	0.846	
Dibromochloromethane	ND	1.7	0.846		1,2,4-Trichlorobenzene	ND	1.7	0.846	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.846		1,1,1-Trichloroethane	ND	0.85	0.846	
1,2-Dibromoethane	ND	0.85	0.846		1,1,2-Trichloroethane	ND	0.85	0.846	
Dibromomethane	ND	0.85	0.846		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.5	0.846	
1,2-Dichlorobenzene	ND	0.85	0.846		Trichloroethene	ND	1.7	0.846	
1,3-Dichlorobenzene	ND	0.85	0.846		Trichlorofluoromethane	ND	8.5	0.846	
1,4-Dichlorobenzene	ND	0.85	0.846		1,2,3-Trichloropropane	ND	1.7	0.846	
Dichlorodifluoromethane	ND	1.7	0.846		1,2,4-Trimethylbenzene	ND	1.7	0.846	
1,1-Dichloroethane	ND	0.85	0.846		1,3,5-Trimethylbenzene	ND	1.7	0.846	
1,2-Dichloroethane	ND	0.85	0.846		Vinyl Acetate	ND	8.5	0.846	
1,1-Dichloroethene	ND	0.85	0.846		Vinyl Chloride	ND	0.85	0.846	
c-1,2-Dichloroethene	ND	0.85	0.846		p/m-Xylene	ND	1.7	0.846	
t-1,2-Dichloroethene	ND	0.85	0.846		o-Xylene	ND	0.85	0.846	
1,2-Dichloropropane	ND	0.85	0.846		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.846	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	118	71-137		1,2-Dichloroethane-d4	130	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-5'	**08-10-2683-20-C**	**10/30/08 12:05**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 16:20**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	45	0.893		1,3-Dichloropropane	ND	0.89	0.893	
Benzene	ND	0.89	0.893		2,2-Dichloropropane	ND	4.5	0.893	
Bromobenzene	ND	0.89	0.893		1,1-Dichloropropene	ND	1.8	0.893	
Bromochloromethane	ND	1.8	0.893		c-1,3-Dichloropropene	ND	0.89	0.893	
Bromodichloromethane	ND	0.89	0.893		t-1,3-Dichloropropene	ND	1.8	0.893	
Bromoform	ND	4.5	0.893		Ethylbenzene	ND	0.89	0.893	
Bromomethane	ND	18	0.893		2-Hexanone	ND	18	0.893	
2-Butanone	ND	18	0.893		Isopropylbenzene	ND	0.89	0.893	
n-Butylbenzene	ND	0.89	0.893		p-Isopropyltoluene	ND	0.89	0.893	
sec-Butylbenzene	ND	0.89	0.893		Methylene Chloride	ND	8.9	0.893	
tert-Butylbenzene	ND	0.89	0.893		4-Methyl-2-Pentanone	ND	18	0.893	
Carbon Disulfide	ND	8.9	0.893		Naphthalene	ND	8.9	0.893	
Carbon Tetrachloride	ND	0.89	0.893		n-Propylbenzene	ND	1.8	0.893	
Chlorobenzene	ND	0.89	0.893		Styrene	ND	0.89	0.893	
Chloroethane	ND	1.8	0.893		1,1,1,2-Tetrachloroethane	ND	0.89	0.893	
Chloroform	ND	0.89	0.893		1,1,2,2-Tetrachloroethane	ND	1.8	0.893	
Chloromethane	ND	18	0.893		Tetrachloroethene	ND	0.89	0.893	
2-Chlorotoluene	ND	0.89	0.893		Toluene	1.0	0.89	0.893	
4-Chlorotoluene	ND	0.89	0.893		1,2,3-Trichlorobenzene	ND	1.8	0.893	
Dibromochloromethane	ND	1.8	0.893		1,2,4-Trichlorobenzene	ND	1.8	0.893	
1,2-Dibromo-3-Chloropropane	ND	4.5	0.893		1,1,1-Trichloroethane	ND	0.89	0.893	
1,2-Dibromoethane	ND	0.89	0.893		1,1,2-Trichloroethane	ND	0.89	0.893	
Dibromomethane	ND	0.89	0.893		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.9	0.893	
1,2-Dichlorobenzene	ND	0.89	0.893		Trichloroethene	ND	1.8	0.893	
1,3-Dichlorobenzene	ND	0.89	0.893		Trichlorofluoromethane	ND	8.9	0.893	
1,4-Dichlorobenzene	ND	0.89	0.893		1,2,3-Trichloropropane	ND	1.8	0.893	
Dichlorodifluoromethane	ND	1.8	0.893		1,2,4-Trimethylbenzene	ND	1.8	0.893	
1,1-Dichloroethane	ND	0.89	0.893		1,3,5-Trimethylbenzene	ND	1.8	0.893	
1,2-Dichloroethane	ND	0.89	0.893		Vinyl Acetate	ND	8.9	0.893	
1,1-Dichloroethene	ND	0.89	0.893		Vinyl Chloride	ND	0.89	0.893	
c-1,2-Dichloroethene	ND	0.89	0.893		p/m-Xylene	ND	1.8	0.893	
t-1,2-Dichloroethene	ND	0.89	0.893		o-Xylene	ND	0.89	0.893	
1,2-Dichloropropane	ND	0.89	0.893		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.893	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	121	71-137		1,2-Dichloroethane-d4	134	58-160	
1,4-Bromofluorobenzene	89	66-126		Toluene-d8	103	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-10'	**08-10-2683-21-C**	**10/30/08 12:15**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 16:46**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.831		1,3-Dichloropropane	ND	0.83	0.831	
Benzene	1.7	0.83	0.831		2,2-Dichloropropane	ND	4.2	0.831	
Bromobenzene	ND	0.83	0.831		1,1-Dichloropropene	ND	1.7	0.831	
Bromochloromethane	ND	1.7	0.831		c-1,3-Dichloropropene	ND	0.83	0.831	
Bromodichloromethane	ND	0.83	0.831		t-1,3-Dichloropropene	ND	1.7	0.831	
Bromoform	ND	4.2	0.831		Ethylbenzene	ND	0.83	0.831	
Bromomethane	ND	17	0.831		2-Hexanone	ND	17	0.831	
2-Butanone	ND	17	0.831		Isopropylbenzene	ND	0.83	0.831	
n-Butylbenzene	ND	0.83	0.831		p-Isopropyltoluene	ND	0.83	0.831	
sec-Butylbenzene	ND	0.83	0.831		Methylene Chloride	ND	8.3	0.831	
tert-Butylbenzene	ND	0.83	0.831		4-Methyl-2-Pentanone	ND	17	0.831	
Carbon Disulfide	ND	8.3	0.831		Naphthalene	ND	8.3	0.831	
Carbon Tetrachloride	ND	0.83	0.831		n-Propylbenzene	ND	1.7	0.831	
Chlorobenzene	ND	0.83	0.831		Styrene	ND	0.83	0.831	
Chloroethane	ND	1.7	0.831		1,1,1,2-Tetrachloroethane	ND	0.83	0.831	
Chloroform	ND	0.83	0.831		1,1,2,2-Tetrachloroethane	ND	1.7	0.831	
Chloromethane	ND	17	0.831		Tetrachloroethene	ND	0.83	0.831	
2-Chlorotoluene	ND	0.83	0.831		Toluene	1.5	0.83	0.831	
4-Chlorotoluene	ND	0.83	0.831		1,2,3-Trichlorobenzene	ND	1.7	0.831	
Dibromochloromethane	ND	1.7	0.831		1,2,4-Trichlorobenzene	ND	1.7	0.831	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.831		1,1,1-Trichloroethane	ND	0.83	0.831	
1,2-Dibromoethane	ND	0.83	0.831		1,1,2-Trichloroethane	ND	0.83	0.831	
Dibromomethane	ND	0.83	0.831		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	0.831	
1,2-Dichlorobenzene	ND	0.83	0.831		Trichloroethene	ND	1.7	0.831	
1,3-Dichlorobenzene	ND	0.83	0.831		Trichlorofluoromethane	ND	8.3	0.831	
1,4-Dichlorobenzene	ND	0.83	0.831		1,2,3-Trichloropropane	ND	1.7	0.831	
Dichlorodifluoromethane	ND	1.7	0.831		1,2,4-Trimethylbenzene	ND	1.7	0.831	
1,1-Dichloroethane	ND	0.83	0.831		1,3,5-Trimethylbenzene	ND	1.7	0.831	
1,2-Dichloroethane	ND	0.83	0.831		Vinyl Acetate	ND	8.3	0.831	
1,1-Dichloroethene	ND	0.83	0.831		Vinyl Chloride	ND	0.83	0.831	
c-1,2-Dichloroethene	ND	0.83	0.831		p/m-Xylene	ND	1.7	0.831	
t-1,2-Dichloroethene	ND	0.83	0.831		o-Xylene	ND	0.83	0.831	
1,2-Dichloropropane	ND	0.83	0.831		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.831	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	120	71-137			1,2-Dichloroethane-d4	132	58-160		
1,4-Bromofluorobenzene	90	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-5'	**08-10-2683-24-C**	**10/30/08 12:55**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 17:12**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	46	0.919		1,3-Dichloropropane	ND	0.92	0.919	
Benzene	ND	0.92	0.919		2,2-Dichloropropane	ND	4.6	0.919	
Bromobenzene	ND	0.92	0.919		1,1-Dichloropropene	ND	1.8	0.919	
Bromochloromethane	ND	1.8	0.919		c-1,3-Dichloropropene	ND	0.92	0.919	
Bromodichloromethane	ND	0.92	0.919		t-1,3-Dichloropropene	ND	1.8	0.919	
Bromoform	ND	4.6	0.919		Ethylbenzene	ND	0.92	0.919	
Bromomethane	ND	18	0.919		2-Hexanone	ND	18	0.919	
2-Butanone	ND	18	0.919		Isopropylbenzene	ND	0.92	0.919	
n-Butylbenzene	ND	0.92	0.919		p-Isopropyltoluene	ND	0.92	0.919	
sec-Butylbenzene	ND	0.92	0.919		Methylene Chloride	ND	9.2	0.919	
tert-Butylbenzene	ND	0.92	0.919		4-Methyl-2-Pentanone	ND	18	0.919	
Carbon Disulfide	ND	9.2	0.919		Naphthalene	ND	9.2	0.919	
Carbon Tetrachloride	ND	0.92	0.919		n-Propylbenzene	ND	1.8	0.919	
Chlorobenzene	ND	0.92	0.919		Styrene	ND	0.92	0.919	
Chloroethane	ND	1.8	0.919		1,1,1,2-Tetrachloroethane	ND	0.92	0.919	
Chloroform	ND	0.92	0.919		1,1,2,2-Tetrachloroethane	ND	1.8	0.919	
Chloromethane	ND	18	0.919		Tetrachloroethene	ND	0.92	0.919	
2-Chlorotoluene	ND	0.92	0.919		Toluene	ND	0.92	0.919	
4-Chlorotoluene	ND	0.92	0.919		1,2,3-Trichlorobenzene	ND	1.8	0.919	
Dibromochloromethane	ND	1.8	0.919		1,2,4-Trichlorobenzene	ND	1.8	0.919	
1,2-Dibromo-3-Chloropropane	ND	4.6	0.919		1,1,1-Trichloroethane	ND	0.92	0.919	
1,2-Dibromoethane	ND	0.92	0.919		1,1,2-Trichloroethane	ND	0.92	0.919	
Dibromomethane	ND	0.92	0.919		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.2	0.919	
1,2-Dichlorobenzene	ND	0.92	0.919		Trichloroethene	ND	1.8	0.919	
1,3-Dichlorobenzene	ND	0.92	0.919		Trichlorofluoromethane	ND	9.2	0.919	
1,4-Dichlorobenzene	ND	0.92	0.919		1,2,3-Trichloropropane	ND	1.8	0.919	
Dichlorodifluoromethane	ND	1.8	0.919		1,2,4-Trimethylbenzene	ND	1.8	0.919	
1,1-Dichloroethane	ND	0.92	0.919		1,3,5-Trimethylbenzene	ND	1.8	0.919	
1,2-Dichloroethane	ND	0.92	0.919		Vinyl Acetate	ND	9.2	0.919	
1,1-Dichloroethene	ND	0.92	0.919		Vinyl Chloride	ND	0.92	0.919	
c-1,2-Dichloroethene	ND	0.92	0.919		p/m-Xylene	ND	1.8	0.919	
t-1,2-Dichloroethene	ND	0.92	0.919		o-Xylene	ND	0.92	0.919	
1,2-Dichloropropane	ND	0.92	0.919		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.919	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	122	71-137		1,2-Dichloroethane-d4	140	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	103	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-10'	**08-10-2683-25-C**	**10/30/08 13:00**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 17:38**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	40	0.801		1,3-Dichloropropane	ND	0.80	0.801	
Benzene	ND	0.80	0.801		2,2-Dichloropropane	ND	4.0	0.801	
Bromobenzene	ND	0.80	0.801		1,1-Dichloropropene	ND	1.6	0.801	
Bromochloromethane	ND	1.6	0.801		c-1,3-Dichloropropene	ND	0.80	0.801	
Bromodichloromethane	ND	0.80	0.801		t-1,3-Dichloropropene	ND	1.6	0.801	
Bromoform	ND	4.0	0.801		Ethylbenzene	ND	0.80	0.801	
Bromomethane	ND	16	0.801		2-Hexanone	ND	16	0.801	
2-Butanone	ND	16	0.801		Isopropylbenzene	ND	0.80	0.801	
n-Butylbenzene	ND	0.80	0.801		p-Isopropyltoluene	ND	0.80	0.801	
sec-Butylbenzene	ND	0.80	0.801		Methylene Chloride	ND	8.0	0.801	
tert-Butylbenzene	ND	0.80	0.801		4-Methyl-2-Pentanone	ND	16	0.801	
Carbon Disulfide	ND	8.0	0.801		Naphthalene	ND	8.0	0.801	
Carbon Tetrachloride	ND	0.80	0.801		n-Propylbenzene	ND	1.6	0.801	
Chlorobenzene	ND	0.80	0.801		Styrene	ND	0.80	0.801	
Chloroethane	ND	1.6	0.801		1,1,1,2-Tetrachloroethane	ND	0.80	0.801	
Chloroform	ND	0.80	0.801		1,1,2,2-Tetrachloroethane	ND	1.6	0.801	
Chloromethane	ND	16	0.801		Tetrachloroethene	ND	0.80	0.801	
2-Chlorotoluene	ND	0.80	0.801		Toluene	ND	0.80	0.801	
4-Chlorotoluene	ND	0.80	0.801		1,2,3-Trichlorobenzene	ND	1.6	0.801	
Dibromochloromethane	ND	1.6	0.801		1,2,4-Trichlorobenzene	ND	1.6	0.801	
1,2-Dibromo-3-Chloropropane	ND	4.0	0.801		1,1,1-Trichloroethane	ND	0.80	0.801	
1,2-Dibromoethane	ND	0.80	0.801		1,1,2-Trichloroethane	ND	0.80	0.801	
Dibromomethane	ND	0.80	0.801		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.0	0.801	
1,2-Dichlorobenzene	ND	0.80	0.801		Trichloroethene	ND	1.6	0.801	
1,3-Dichlorobenzene	ND	0.80	0.801		Trichlorofluoromethane	ND	8.0	0.801	
1,4-Dichlorobenzene	ND	0.80	0.801		1,2,3-Trichloropropane	ND	1.6	0.801	
Dichlorodifluoromethane	ND	1.6	0.801		1,2,4-Trimethylbenzene	ND	1.6	0.801	
1,1-Dichloroethane	ND	0.80	0.801		1,3,5-Trimethylbenzene	ND	1.6	0.801	
1,2-Dichloroethane	ND	0.80	0.801		Vinyl Acetate	ND	8.0	0.801	
1,1-Dichloroethene	ND	0.80	0.801		Vinyl Chloride	ND	0.80	0.801	
c-1,2-Dichloroethene	ND	0.80	0.801		p/m-Xylene	ND	1.6	0.801	
t-1,2-Dichloroethene	ND	0.80	0.801		o-Xylene	ND	0.80	0.801	
1,2-Dichloropropane	ND	0.80	0.801		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.801	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	123	71-137		1,2-Dichloroethane-d4	142	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-5'	**08-10-2683-29-C**	**10/30/08 13:28**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 18:04**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.826		1,3-Dichloropropane	ND	0.83	0.826	
Benzene	ND	0.83	0.826		2,2-Dichloropropane	ND	4.1	0.826	
Bromobenzene	ND	0.83	0.826		1,1-Dichloropropene	ND	1.7	0.826	
Bromochloromethane	ND	1.7	0.826		c-1,3-Dichloropropene	ND	0.83	0.826	
Bromodichloromethane	ND	0.83	0.826		t-1,3-Dichloropropene	ND	1.7	0.826	
Bromoform	ND	4.1	0.826		Ethylbenzene	ND	0.83	0.826	
Bromomethane	ND	17	0.826		2-Hexanone	ND	17	0.826	
2-Butanone	ND	17	0.826		Isopropylbenzene	ND	0.83	0.826	
n-Butylbenzene	ND	0.83	0.826		p-Isopropyltoluene	ND	0.83	0.826	
sec-Butylbenzene	ND	0.83	0.826		Methylene Chloride	ND	8.3	0.826	
tert-Butylbenzene	ND	0.83	0.826		4-Methyl-2-Pentanone	ND	17	0.826	
Carbon Disulfide	ND	8.3	0.826		Naphthalene	ND	8.3	0.826	
Carbon Tetrachloride	ND	0.83	0.826		n-Propylbenzene	ND	1.7	0.826	
Chlorobenzene	ND	0.83	0.826		Styrene	ND	0.83	0.826	
Chloroethane	ND	1.7	0.826		1,1,1,2-Tetrachloroethane	ND	0.83	0.826	
Chloroform	ND	0.83	0.826		1,1,2,2-Tetrachloroethane	ND	1.7	0.826	
Chloromethane	ND	17	0.826		Tetrachloroethene	ND	0.83	0.826	
2-Chlorotoluene	ND	0.83	0.826		Toluene	ND	0.83	0.826	
4-Chlorotoluene	ND	0.83	0.826		1,2,3-Trichlorobenzene	ND	1.7	0.826	
Dibromochloromethane	ND	1.7	0.826		1,2,4-Trichlorobenzene	ND	1.7	0.826	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.826		1,1,1-Trichloroethane	ND	0.83	0.826	
1,2-Dibromoethane	ND	0.83	0.826		1,1,2-Trichloroethane	ND	0.83	0.826	
Dibromomethane	ND	0.83	0.826		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	0.826	
1,2-Dichlorobenzene	ND	0.83	0.826		Trichloroethene	ND	1.7	0.826	
1,3-Dichlorobenzene	ND	0.83	0.826		Trichlorofluoromethane	ND	8.3	0.826	
1,4-Dichlorobenzene	ND	0.83	0.826		1,2,3-Trichloropropane	ND	1.7	0.826	
Dichlorodifluoromethane	ND	1.7	0.826		1,2,4-Trimethylbenzene	ND	1.7	0.826	
1,1-Dichloroethane	ND	0.83	0.826		1,3,5-Trimethylbenzene	ND	1.7	0.826	
1,2-Dichloroethane	ND	0.83	0.826		Vinyl Acetate	ND	8.3	0.826	
1,1-Dichloroethene	ND	0.83	0.826		Vinyl Chloride	ND	0.83	0.826	
c-1,2-Dichloroethene	ND	0.83	0.826		p/m-Xylene	ND	1.7	0.826	
t-1,2-Dichloroethene	ND	0.83	0.826		o-Xylene	ND	0.83	0.826	
1,2-Dichloropropane	ND	0.83	0.826		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.826	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	123	71-137		1,2-Dichloroethane-d4	139	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-10'	**08-10-2683-30-C**	**10/30/08 13:40**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 18:31**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	48	0.954		1,3-Dichloropropane	ND	0.95	0.954	
Benzene	1.9	0.95	0.954		2,2-Dichloropropane	ND	4.8	0.954	
Bromobenzene	ND	0.95	0.954		1,1-Dichloropropene	ND	1.9	0.954	
Bromochloromethane	ND	1.9	0.954		c-1,3-Dichloropropene	ND	0.95	0.954	
Bromodichloromethane	ND	0.95	0.954		t-1,3-Dichloropropene	ND	1.9	0.954	
Bromoform	ND	4.8	0.954		Ethylbenzene	ND	0.95	0.954	
Bromomethane	ND	19	0.954		2-Hexanone	ND	19	0.954	
2-Butanone	ND	19	0.954		Isopropylbenzene	ND	0.95	0.954	
n-Butylbenzene	ND	0.95	0.954		p-Isopropyltoluene	ND	0.95	0.954	
sec-Butylbenzene	ND	0.95	0.954		Methylene Chloride	ND	9.5	0.954	
tert-Butylbenzene	ND	0.95	0.954		4-Methyl-2-Pentanone	ND	19	0.954	
Carbon Disulfide	ND	9.5	0.954		Naphthalene	ND	9.5	0.954	
Carbon Tetrachloride	ND	0.95	0.954		n-Propylbenzene	ND	1.9	0.954	
Chlorobenzene	ND	0.95	0.954		Styrene	ND	0.95	0.954	
Chloroethane	ND	1.9	0.954		1,1,1,2-Tetrachloroethane	ND	0.95	0.954	
Chloroform	ND	0.95	0.954		1,1,2,2-Tetrachloroethane	ND	1.9	0.954	
Chloromethane	ND	19	0.954		Tetrachloroethene	ND	0.95	0.954	
2-Chlorotoluene	ND	0.95	0.954		Toluene	1.1	0.95	0.954	
4-Chlorotoluene	ND	0.95	0.954		1,2,3-Trichlorobenzene	ND	1.9	0.954	
Dibromochloromethane	ND	1.9	0.954		1,2,4-Trichlorobenzene	ND	1.9	0.954	
1,2-Dibromo-3-Chloropropane	ND	4.8	0.954		1,1,1-Trichloroethane	ND	0.95	0.954	
1,2-Dibromoethane	ND	0.95	0.954		1,1,2-Trichloroethane	ND	0.95	0.954	
Dibromomethane	ND	0.95	0.954		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.5	0.954	
1,2-Dichlorobenzene	ND	0.95	0.954		Trichloroethene	ND	1.9	0.954	
1,3-Dichlorobenzene	ND	0.95	0.954		Trichlorofluoromethane	ND	9.5	0.954	
1,4-Dichlorobenzene	ND	0.95	0.954		1,2,3-Trichloropropane	ND	1.9	0.954	
Dichlorodifluoromethane	ND	1.9	0.954		1,2,4-Trimethylbenzene	ND	1.9	0.954	
1,1-Dichloroethane	ND	0.95	0.954		1,3,5-Trimethylbenzene	ND	1.9	0.954	
1,2-Dichloroethane	ND	0.95	0.954		Vinyl Acetate	ND	9.5	0.954	
1,1-Dichloroethene	ND	0.95	0.954		Vinyl Chloride	ND	0.95	0.954	
c-1,2-Dichloroethene	ND	0.95	0.954		p/m-Xylene	ND	1.9	0.954	
t-1,2-Dichloroethene	ND	0.95	0.954		o-Xylene	ND	0.95	0.954	
1,2-Dichloropropane	ND	0.95	0.954		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.954	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	121	71-137			1,2-Dichloroethane-d4	137	58-160		
1,4-Bromofluorobenzene	90	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-5'	**08-10-2683-34-C**	**10/30/08 14:01**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 18:57**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.826		1,3-Dichloropropane	ND	0.83	0.826	
Benzene	ND	0.83	0.826		2,2-Dichloropropane	ND	4.1	0.826	
Bromobenzene	ND	0.83	0.826		1,1-Dichloropropene	ND	1.7	0.826	
Bromochloromethane	ND	1.7	0.826		c-1,3-Dichloropropene	ND	0.83	0.826	
Bromodichloromethane	ND	0.83	0.826		t-1,3-Dichloropropene	ND	1.7	0.826	
Bromoform	ND	4.1	0.826		Ethylbenzene	ND	0.83	0.826	
Bromomethane	ND	17	0.826		2-Hexanone	ND	17	0.826	
2-Butanone	ND	17	0.826		Isopropylbenzene	ND	0.83	0.826	
n-Butylbenzene	ND	0.83	0.826		p-Isopropyltoluene	ND	0.83	0.826	
sec-Butylbenzene	ND	0.83	0.826		Methylene Chloride	ND	8.3	0.826	
tert-Butylbenzene	ND	0.83	0.826		4-Methyl-2-Pentanone	ND	17	0.826	
Carbon Disulfide	ND	8.3	0.826		Naphthalene	ND	8.3	0.826	
Carbon Tetrachloride	ND	0.83	0.826		n-Propylbenzene	ND	1.7	0.826	
Chlorobenzene	ND	0.83	0.826		Styrene	ND	0.83	0.826	
Chloroethane	ND	1.7	0.826		1,1,1,2-Tetrachloroethane	ND	0.83	0.826	
Chloroform	ND	0.83	0.826		1,1,2,2-Tetrachloroethane	ND	1.7	0.826	
Chloromethane	ND	17	0.826		Tetrachloroethene	ND	0.83	0.826	
2-Chlorotoluene	ND	0.83	0.826		Toluene	ND	0.83	0.826	
4-Chlorotoluene	ND	0.83	0.826		1,2,3-Trichlorobenzene	ND	1.7	0.826	
Dibromochloromethane	ND	1.7	0.826		1,2,4-Trichlorobenzene	ND	1.7	0.826	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.826		1,1,1-Trichloroethane	ND	0.83	0.826	
1,2-Dibromoethane	ND	0.83	0.826		1,1,2-Trichloroethane	ND	0.83	0.826	
Dibromomethane	ND	0.83	0.826		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	0.826	
1,2-Dichlorobenzene	ND	0.83	0.826		Trichloroethene	ND	1.7	0.826	
1,3-Dichlorobenzene	ND	0.83	0.826		Trichlorofluoromethane	ND	8.3	0.826	
1,4-Dichlorobenzene	ND	0.83	0.826		1,2,3-Trichloropropane	ND	1.7	0.826	
Dichlorodifluoromethane	ND	1.7	0.826		1,2,4-Trimethylbenzene	ND	1.7	0.826	
1,1-Dichloroethane	ND	0.83	0.826		1,3,5-Trimethylbenzene	ND	1.7	0.826	
1,2-Dichloroethane	ND	0.83	0.826		Vinyl Acetate	ND	8.3	0.826	
1,1-Dichloroethene	ND	0.83	0.826		Vinyl Chloride	ND	0.83	0.826	
c-1,2-Dichloroethene	ND	0.83	0.826		p/m-Xylene	ND	1.7	0.826	
t-1,2-Dichloroethene	ND	0.83	0.826		o-Xylene	ND	0.83	0.826	
1,2-Dichloropropane	ND	0.83	0.826		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.826	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	125	71-137		1,2-Dichloroethane-d4	144	58-160	
1,4-Bromofluorobenzene	89	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-10'	**08-10-2683-35-C**	**10/30/08 14:05**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 19:23**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.82		1,3-Dichloropropane	ND	0.82	0.82	
Benzene	ND	0.82	0.82		2,2-Dichloropropane	ND	4.1	0.82	
Bromobenzene	ND	0.82	0.82		1,1-Dichloropropene	ND	1.6	0.82	
Bromochloromethane	ND	1.6	0.82		c-1,3-Dichloropropene	ND	0.82	0.82	
Bromodichloromethane	ND	0.82	0.82		t-1,3-Dichloropropene	ND	1.6	0.82	
Bromoform	ND	4.1	0.82		Ethylbenzene	ND	0.82	0.82	
Bromomethane	ND	16	0.82		2-Hexanone	ND	16	0.82	
2-Butanone	ND	16	0.82		Isopropylbenzene	ND	0.82	0.82	
n-Butylbenzene	ND	0.82	0.82		p-Isopropyltoluene	ND	0.82	0.82	
sec-Butylbenzene	ND	0.82	0.82		Methylene Chloride	ND	8.2	0.82	
tert-Butylbenzene	ND	0.82	0.82		4-Methyl-2-Pentanone	ND	16	0.82	
Carbon Disulfide	ND	8.2	0.82		Naphthalene	ND	8.2	0.82	
Carbon Tetrachloride	ND	0.82	0.82		n-Propylbenzene	ND	1.6	0.82	
Chlorobenzene	ND	0.82	0.82		Styrene	ND	0.82	0.82	
Chloroethane	ND	1.6	0.82		1,1,1,2-Tetrachloroethane	ND	0.82	0.82	
Chloroform	ND	0.82	0.82		1,1,2,2-Tetrachloroethane	ND	1.6	0.82	
Chloromethane	ND	16	0.82		Tetrachloroethene	ND	0.82	0.82	
2-Chlorotoluene	ND	0.82	0.82		Toluene	ND	0.82	0.82	
4-Chlorotoluene	ND	0.82	0.82		1,2,3-Trichlorobenzene	ND	1.6	0.82	
Dibromochloromethane	ND	1.6	0.82		1,2,4-Trichlorobenzene	ND	1.6	0.82	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.82		1,1,1-Trichloroethane	ND	0.82	0.82	
1,2-Dibromoethane	ND	0.82	0.82		1,1,2-Trichloroethane	ND	0.82	0.82	
Dibromomethane	ND	0.82	0.82		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.82	
1,2-Dichlorobenzene	ND	0.82	0.82		Trichloroethene	ND	1.6	0.82	
1,3-Dichlorobenzene	ND	0.82	0.82		Trichlorofluoromethane	ND	8.2	0.82	
1,4-Dichlorobenzene	ND	0.82	0.82		1,2,3-Trichloropropane	ND	1.6	0.82	
Dichlorodifluoromethane	ND	1.6	0.82		1,2,4-Trimethylbenzene	ND	1.6	0.82	
1,1-Dichloroethane	ND	0.82	0.82		1,3,5-Trimethylbenzene	ND	1.6	0.82	
1,2-Dichloroethane	ND	0.82	0.82		Vinyl Acetate	ND	8.2	0.82	
1,1-Dichloroethene	ND	0.82	0.82		Vinyl Chloride	ND	0.82	0.82	
c-1,2-Dichloroethene	ND	0.82	0.82		p/m-Xylene	ND	1.6	0.82	
t-1,2-Dichloroethene	ND	0.82	0.82		o-Xylene	ND	0.82	0.82	
1,2-Dichloropropane	ND	0.82	0.82		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.82	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	122	71-137		1,2-Dichloroethane-d4	136	58-160	
1,4-Bromofluorobenzene	89	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-5'	**08-10-2683-38-C**	**10/30/08 14:40**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 19:49**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.84		1,3-Dichloropropane	ND	0.84	0.84	
Benzene	ND	0.84	0.84		2,2-Dichloropropane	ND	4.2	0.84	
Bromobenzene	ND	0.84	0.84		1,1-Dichloropropene	ND	1.7	0.84	
Bromochloromethane	ND	1.7	0.84		c-1,3-Dichloropropene	ND	0.84	0.84	
Bromodichloromethane	ND	0.84	0.84		t-1,3-Dichloropropene	ND	1.7	0.84	
Bromoform	ND	4.2	0.84		Ethylbenzene	ND	0.84	0.84	
Bromomethane	ND	17	0.84		2-Hexanone	ND	17	0.84	
2-Butanone	ND	17	0.84		Isopropylbenzene	ND	0.84	0.84	
n-Butylbenzene	ND	0.84	0.84		p-Isopropyltoluene	ND	0.84	0.84	
sec-Butylbenzene	ND	0.84	0.84		Methylene Chloride	ND	8.4	0.84	
tert-Butylbenzene	ND	0.84	0.84		4-Methyl-2-Pentanone	ND	17	0.84	
Carbon Disulfide	ND	8.4	0.84		Naphthalene	ND	8.4	0.84	
Carbon Tetrachloride	ND	0.84	0.84		n-Propylbenzene	ND	1.7	0.84	
Chlorobenzene	ND	0.84	0.84		Styrene	ND	0.84	0.84	
Chloroethane	ND	1.7	0.84		1,1,1,2-Tetrachloroethane	ND	0.84	0.84	
Chloroform	ND	0.84	0.84		1,1,2,2-Tetrachloroethane	ND	1.7	0.84	
Chloromethane	ND	17	0.84		Tetrachloroethene	ND	0.84	0.84	
2-Chlorotoluene	ND	0.84	0.84		Toluene	ND	0.84	0.84	
4-Chlorotoluene	ND	0.84	0.84		1,2,3-Trichlorobenzene	ND	1.7	0.84	
Dibromochloromethane	ND	1.7	0.84		1,2,4-Trichlorobenzene	ND	1.7	0.84	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.84		1,1,1-Trichloroethane	ND	0.84	0.84	
1,2-Dibromoethane	ND	0.84	0.84		1,1,2-Trichloroethane	ND	0.84	0.84	
Dibromomethane	ND	0.84	0.84		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	0.84	
1,2-Dichlorobenzene	ND	0.84	0.84		Trichloroethene	ND	1.7	0.84	
1,3-Dichlorobenzene	ND	0.84	0.84		Trichlorofluoromethane	ND	8.4	0.84	
1,4-Dichlorobenzene	ND	0.84	0.84		1,2,3-Trichloropropane	ND	1.7	0.84	
Dichlorodifluoromethane	ND	1.7	0.84		1,2,4-Trimethylbenzene	ND	1.7	0.84	
1,1-Dichloroethane	ND	0.84	0.84		1,3,5-Trimethylbenzene	ND	1.7	0.84	
1,2-Dichloroethane	ND	0.84	0.84		Vinyl Acetate	ND	8.4	0.84	
1,1-Dichloroethene	ND	0.84	0.84		Vinyl Chloride	ND	0.84	0.84	
c-1,2-Dichloroethene	ND	0.84	0.84		p/m-Xylene	ND	1.7	0.84	
t-1,2-Dichloroethene	ND	0.84	0.84		o-Xylene	ND	0.84	0.84	
1,2-Dichloropropane	ND	0.84	0.84		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.84	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	125	71-137		1,2-Dichloroethane-d4	142	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-10'	**08-10-2683-39-C**	**10/30/08 14:45**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 20:15**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.824		1,3-Dichloropropane	ND	0.82	0.824	
Benzene	ND	0.82	0.824		2,2-Dichloropropane	ND	4.1	0.824	
Bromobenzene	ND	0.82	0.824		1,1-Dichloropropene	ND	1.6	0.824	
Bromochloromethane	ND	1.6	0.824		c-1,3-Dichloropropene	ND	0.82	0.824	
Bromodichloromethane	ND	0.82	0.824		t-1,3-Dichloropropene	ND	1.6	0.824	
Bromoform	ND	4.1	0.824		Ethylbenzene	ND	0.82	0.824	
Bromomethane	ND	16	0.824		2-Hexanone	ND	16	0.824	
2-Butanone	ND	16	0.824		Isopropylbenzene	ND	0.82	0.824	
n-Butylbenzene	ND	0.82	0.824		p-Isopropyltoluene	ND	0.82	0.824	
sec-Butylbenzene	ND	0.82	0.824		Methylene Chloride	ND	8.2	0.824	
tert-Butylbenzene	ND	0.82	0.824		4-Methyl-2-Pentanone	ND	16	0.824	
Carbon Disulfide	ND	8.2	0.824		Naphthalene	ND	8.2	0.824	
Carbon Tetrachloride	ND	0.82	0.824		n-Propylbenzene	ND	1.6	0.824	
Chlorobenzene	ND	0.82	0.824		Styrene	ND	0.82	0.824	
Chloroethane	ND	1.6	0.824		1,1,1,2-Tetrachloroethane	ND	0.82	0.824	
Chloroform	ND	0.82	0.824		1,1,2,2-Tetrachloroethane	ND	1.6	0.824	
Chloromethane	ND	16	0.824		Tetrachloroethene	ND	0.82	0.824	
2-Chlorotoluene	ND	0.82	0.824		Toluene	ND	0.82	0.824	
4-Chlorotoluene	ND	0.82	0.824		1,2,3-Trichlorobenzene	ND	1.6	0.824	
Dibromochloromethane	ND	1.6	0.824		1,2,4-Trichlorobenzene	ND	1.6	0.824	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.824		1,1,1-Trichloroethane	ND	0.82	0.824	
1,2-Dibromoethane	ND	0.82	0.824		1,1,2-Trichloroethane	ND	0.82	0.824	
Dibromomethane	ND	0.82	0.824		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.824	
1,2-Dichlorobenzene	ND	0.82	0.824		Trichloroethene	ND	1.6	0.824	
1,3-Dichlorobenzene	ND	0.82	0.824		Trichlorofluoromethane	ND	8.2	0.824	
1,4-Dichlorobenzene	ND	0.82	0.824		1,2,3-Trichloropropane	ND	1.6	0.824	
Dichlorodifluoromethane	ND	1.6	0.824		1,2,4-Trimethylbenzene	ND	1.6	0.824	
1,1-Dichloroethane	ND	0.82	0.824		1,3,5-Trimethylbenzene	ND	1.6	0.824	
1,2-Dichloroethane	ND	0.82	0.824		Vinyl Acetate	ND	8.2	0.824	
1,1-Dichloroethene	ND	0.82	0.824		Vinyl Chloride	ND	0.82	0.824	
c-1,2-Dichloroethene	ND	0.82	0.824		p/m-Xylene	ND	1.6	0.824	
t-1,2-Dichloroethene	ND	0.82	0.824		o-Xylene	ND	0.82	0.824	
1,2-Dichloropropane	ND	0.82	0.824		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.824	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	121	71-137		1,2-Dichloroethane-d4	135	58-160	
1,4-Bromofluorobenzene	89	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-5'	**08-10-2683-43-C**	**10/30/08 15:15**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 20:41**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	40	0.792		1,3-Dichloropropane	ND	0.79	0.792	
Benzene	ND	0.79	0.792		2,2-Dichloropropane	ND	4.0	0.792	
Bromobenzene	ND	0.79	0.792		1,1-Dichloropropene	ND	1.6	0.792	
Bromochloromethane	ND	1.6	0.792		c-1,3-Dichloropropene	ND	0.79	0.792	
Bromodichloromethane	ND	0.79	0.792		t-1,3-Dichloropropene	ND	1.6	0.792	
Bromoform	ND	4.0	0.792		Ethylbenzene	ND	0.79	0.792	
Bromomethane	ND	16	0.792		2-Hexanone	ND	16	0.792	
2-Butanone	ND	16	0.792		Isopropylbenzene	ND	0.79	0.792	
n-Butylbenzene	ND	0.79	0.792		p-Isopropyltoluene	ND	0.79	0.792	
sec-Butylbenzene	ND	0.79	0.792		Methylene Chloride	ND	7.9	0.792	
tert-Butylbenzene	ND	0.79	0.792		4-Methyl-2-Pentanone	ND	16	0.792	
Carbon Disulfide	ND	7.9	0.792		Naphthalene	ND	7.9	0.792	
Carbon Tetrachloride	ND	0.79	0.792		n-Propylbenzene	ND	1.6	0.792	
Chlorobenzene	ND	0.79	0.792		Styrene	ND	0.79	0.792	
Chloroethane	ND	1.6	0.792		1,1,1,2-Tetrachloroethane	ND	0.79	0.792	
Chloroform	ND	0.79	0.792		1,1,2,2-Tetrachloroethane	ND	1.6	0.792	
Chloromethane	ND	16	0.792		Tetrachloroethene	ND	0.79	0.792	
2-Chlorotoluene	ND	0.79	0.792		Toluene	ND	0.79	0.792	
4-Chlorotoluene	ND	0.79	0.792		1,2,3-Trichlorobenzene	ND	1.6	0.792	
Dibromochloromethane	ND	1.6	0.792		1,2,4-Trichlorobenzene	ND	1.6	0.792	
1,2-Dibromo-3-Chloropropane	ND	4.0	0.792		1,1,1-Trichloroethane	ND	0.79	0.792	
1,2-Dibromoethane	ND	0.79	0.792		1,1,2-Trichloroethane	ND	0.79	0.792	
Dibromomethane	ND	0.79	0.792		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.9	0.792	
1,2-Dichlorobenzene	ND	0.79	0.792		Trichloroethene	ND	1.6	0.792	
1,3-Dichlorobenzene	ND	0.79	0.792		Trichlorofluoromethane	ND	7.9	0.792	
1,4-Dichlorobenzene	ND	0.79	0.792		1,2,3-Trichloropropane	ND	1.6	0.792	
Dichlorodifluoromethane	ND	1.6	0.792		1,2,4-Trimethylbenzene	ND	1.6	0.792	
1,1-Dichloroethane	ND	0.79	0.792		1,3,5-Trimethylbenzene	ND	1.6	0.792	
1,2-Dichloroethane	ND	0.79	0.792		Vinyl Acetate	ND	7.9	0.792	
1,1-Dichloroethene	ND	0.79	0.792		Vinyl Chloride	ND	0.79	0.792	
c-1,2-Dichloroethene	ND	0.79	0.792		p/m-Xylene	ND	1.6	0.792	
t-1,2-Dichloroethene	ND	0.79	0.792		o-Xylene	ND	0.79	0.792	
1,2-Dichloropropane	ND	0.79	0.792		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.792	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	120	71-137		1,2-Dichloroethane-d4	134	58-160	
1,4-Bromofluorobenzene	87	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-10'	**08-10-2683-44-C**	**10/30/08 15:20**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 21:08**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.847		1,3-Dichloropropane	ND	0.85	0.847	
Benzene	ND	0.85	0.847		2,2-Dichloropropane	ND	4.2	0.847	
Bromobenzene	ND	0.85	0.847		1,1-Dichloropropene	ND	1.7	0.847	
Bromochloromethane	ND	1.7	0.847		c-1,3-Dichloropropene	ND	0.85	0.847	
Bromodichloromethane	ND	0.85	0.847		t-1,3-Dichloropropene	ND	1.7	0.847	
Bromoform	ND	4.2	0.847		Ethylbenzene	ND	0.85	0.847	
Bromomethane	ND	17	0.847		2-Hexanone	ND	17	0.847	
2-Butanone	ND	17	0.847		Isopropylbenzene	ND	0.85	0.847	
n-Butylbenzene	ND	0.85	0.847		p-Isopropyltoluene	ND	0.85	0.847	
sec-Butylbenzene	ND	0.85	0.847		Methylene Chloride	ND	8.5	0.847	
tert-Butylbenzene	ND	0.85	0.847		4-Methyl-2-Pentanone	ND	17	0.847	
Carbon Disulfide	ND	8.5	0.847		Naphthalene	ND	8.5	0.847	
Carbon Tetrachloride	ND	0.85	0.847		n-Propylbenzene	ND	1.7	0.847	
Chlorobenzene	ND	0.85	0.847		Styrene	ND	0.85	0.847	
Chloroethane	ND	1.7	0.847		1,1,1,2-Tetrachloroethane	ND	0.85	0.847	
Chloroform	ND	0.85	0.847		1,1,2,2-Tetrachloroethane	ND	1.7	0.847	
Chloromethane	ND	17	0.847		Tetrachloroethene	ND	0.85	0.847	
2-Chlorotoluene	ND	0.85	0.847		Toluene	1.0	0.85	0.847	
4-Chlorotoluene	ND	0.85	0.847		1,2,3-Trichlorobenzene	ND	1.7	0.847	
Dibromochloromethane	ND	1.7	0.847		1,2,4-Trichlorobenzene	ND	1.7	0.847	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.847		1,1,1-Trichloroethane	ND	0.85	0.847	
1,2-Dibromoethane	ND	0.85	0.847		1,1,2-Trichloroethane	ND	0.85	0.847	
Dibromomethane	ND	0.85	0.847		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.5	0.847	
1,2-Dichlorobenzene	ND	0.85	0.847		Trichloroethene	ND	1.7	0.847	
1,3-Dichlorobenzene	ND	0.85	0.847		Trichlorofluoromethane	ND	8.5	0.847	
1,4-Dichlorobenzene	ND	0.85	0.847		1,2,3-Trichloropropane	ND	1.7	0.847	
Dichlorodifluoromethane	ND	1.7	0.847		1,2,4-Trimethylbenzene	ND	1.7	0.847	
1,1-Dichloroethane	ND	0.85	0.847		1,3,5-Trimethylbenzene	ND	1.7	0.847	
1,2-Dichloroethane	ND	0.85	0.847		Vinyl Acetate	ND	8.5	0.847	
1,1-Dichloroethene	ND	0.85	0.847		Vinyl Chloride	ND	0.85	0.847	
c-1,2-Dichloroethene	ND	0.85	0.847		p/m-Xylene	ND	1.7	0.847	
t-1,2-Dichloroethene	ND	0.85	0.847		o-Xylene	ND	0.85	0.847	
1,2-Dichloropropane	ND	0.85	0.847		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.847	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	122	71-137			1,2-Dichloroethane-d4	135	58-160		
1,4-Bromofluorobenzene	90	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-16,961**	**N/A**	**Solid**	**GC/MS XX**	**11/01/08**	**11/01/08 13:16**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	1.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	2.0	1	
Bromochloromethane	ND	2.0	1		c-1,3-Dichloropropene	ND	1.0	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	20	1		2-Hexanone	ND	20	1	
2-Butanone	ND	20	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	20	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	2.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chloromethane	ND	20	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Dibromochloromethane	ND	2.0	1		1,2,4-Trichlorobenzene	ND	2.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
Dichlorodifluoromethane	ND	2.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	2.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	71-137		1,2-Dichloroethane-d4	117	58-160	
1,4-Bromofluorobenzene	87	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-5'	**08-10-2683-2-A**	**10/30/08 08:40**	**Solid**	**GC/MS U**	**11/01/08**	**11/01/08 13:52**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	127	73-139			1,2-Dichloroethane-d4	124	73-145		
Toluene-d8	103	90-108			1,4-Bromofluorobenzene	87	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-9.5'	**08-10-2683-3-A**	**10/30/08 08:45**	**Solid**	**GC/MS U**	**11/01/08**	**11/01/08 17:46**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	116	73-139			1,2-Dichloroethane-d4	117	73-145		
Toluene-d8	97	90-108			1,4-Bromofluorobenzene	93	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS17-5'	**08-10-2683-5-A**	**10/30/08 09:12**	**Solid**	**GC/MS U**	**11/01/08**	**11/01/08 18:15**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	118	73-139			1,2-Dichloroethane-d4	117	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	93	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS17-10'	**08-10-2683-6-A**	**10/30/08 09:15**	**Solid**	**GC/MS U**	**11/01/08**	**11/01/08 18:44**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	124	73-139			1,2-Dichloroethane-d4	130	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	90	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-443**	**N/A**	**Solid**	**GC/MS U**	**11/01/08**	**11/01/08 12:53**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	130	73-139			1,2-Dichloroethane-d4	123	73-145		
Toluene-d8	103	90-108			1,4-Bromofluorobenzene	88	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3050B
Method: EPA 6010B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2668-1	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08**	**081031S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	92	100	75-125	7	0-20	
Cadmium	98	99	75-125	2	0-20	
Lead	97	97	75-125	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3050B
Method: EPA 6010B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS17-0.5'	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08**	**081031S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	90	87	75-125	3	0-20	
Cadmium	95	93	75-125	1	0-20	
Lead	81	73	75-125	4	0-20	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3010A Total
Method: EPA 6010B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2705-3	**Aqueous**	**ICP 5300**	**10/31/08**	**11/03/08**	**081031SA3**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	105	107	80-140	2	0-11	
Cadmium	101	100	82-124	1	0-7	
Lead	99	100	84-120	1	0-7	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS17-10'	**Solid**	**GC 3**	**10/31/08**	**11/01/08**	**081031S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	103	118	64-130	14	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS22-10'	**Solid**	**GC 3**	**10/31/08**	**10/31/08**	**081031S06**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	98	101	64-130	2	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS18-10'	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08**	**081031S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acenaphthene	77	76	40-106	0	0-20	
Pyrene	75	72	6-156	4	0-46	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3545
Method: EPA 8082

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS23-5'	**Solid**	**GC 31**	**10/31/08**	**11/04/08**	**081031S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	61	60	50-135	2	0-20	
Aroclor-1260	82	77	50-135	7	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3545
Method: EPA 8082

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2627-3	**Solid**	**GC 16**	**10/31/08**	**11/03/08**	**081031S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	70	64	50-135	7	0-20	
Aroclor-1260	78	72	50-135	9	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 5030B
Method: EPA 8260B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2288-23	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08**	**081104S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	95	88-118	1	0-7	
Carbon Tetrachloride	94	96	67-145	2	0-11	
Chlorobenzene	101	100	88-118	1	0-7	
1,2-Dibromoethane	97	94	70-130	3	0-30	
1,2-Dichlorobenzene	100	98	86-116	2	0-8	
1,1-Dichloroethene	97	98	70-130	1	0-25	
Ethylbenzene	98	97	70-130	1	0-30	
Toluene	101	96	87-123	5	0-8	
Trichloroethene	92	91	79-127	1	0-10	
Vinyl Chloride	141	114	69-129	21	0-13	3,4
Methyl-t-Butyl Ether (MTBE)	94	91	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	67	68	36-168	1	0-45	
Diisopropyl Ether (DIPE)	95	93	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	90	88	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	90	88	72-126	2	0-12	
Ethanol	97	97	53-149	1	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 5030B
Method: EPA 8260B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS14-5'	**Solid**	**GC/MS U**	**11/01/08**	**11/01/08**	**081101S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	92	79-115	6	0-13	
Carbon Tetrachloride	120	116	55-139	3	0-15	
Chlorobenzene	94	90	79-115	4	0-17	
1,2-Dibromoethane	85	81	70-130	5	0-30	
1,2-Dichlorobenzene	92	90	63-123	2	0-23	
1,1-Dichloroethene	96	98	69-123	2	0-16	
Ethylbenzene	96	93	70-130	3	0-30	
Toluene	97	93	79-115	4	0-15	
Trichloroethene	96	93	66-144	3	0-14	
Vinyl Chloride	95	95	60-126	0	0-14	
Methyl-t-Butyl Ether (MTBE)	89	88	68-128	1	0-14	
Tert-Butyl Alcohol (TBA)	54	55	44-134	1	0-37	
Diisopropyl Ether (DIPE)	93	90	75-123	3	0-12	
Ethyl-t-Butyl Ether (ETBE)	92	93	75-117	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	98	91	79-115	7	0-12	
Ethanol	58	53	42-138	9	0-28	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 3050B
Method: EPA 6010B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-11,689	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08**	**081031L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	96	98	80-120	1	0-20	
Cadmium	105	106	80-120	0	0-20	
Lead	106	106	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 3050B
Method: EPA 6010B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-11,692	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08**	**081031L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	98	98	80-120	1	0-20	
Cadmium	108	108	80-120	0	0-20	
Lead	109	108	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-8,777	**Aqueous**	**ICP 5300**	**10/31/08**	**11/03/08**	**081031LA3**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	101	103	80-120	2	0-20	
Cadmium	106	109	80-120	3	0-20	
Lead	107	109	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-275-2,275	**Solid**	**GC 3**	**10/31/08**	**11/01/08**	**081031B05**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	93	93	75-123	1	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-275-2,274	**Solid**	**GC 3**	**10/31/08**	**10/31/08**	**081031B06**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	101	104	75-123	2	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-801	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08**	**081031B09**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	93	94	75-117	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-010-241	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08**	**081031L04**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acenaphthene	93	93	48-108	0	0-11	
Pyrene	83	83	28-106	0	0-16	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 3545
Method: EPA 8082

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-488	**Solid**	**GC 31**	**10/31/08**	**11/04/08**	**081031L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	116	116	50-135	0	0-20	
Aroclor-1260	126	128	50-135	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 3545
Method: EPA 8082

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-486	**Solid**	**GC 16**	**10/31/08**	**11/03/08**	**081031L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	80	81	50-135	2	0-20	
Aroclor-1260	86	89	50-135	3	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 5030B
Method: EPA 8260B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-27,366	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08**	**081104L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	98	96	84-120	78-126	2	0-8	
Carbon Tetrachloride	97	95	63-147	49-161	2	0-10	
Chlorobenzene	104	102	89-119	84-124	2	0-7	
1,2-Dibromoethane	100	98	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	103	102	89-119	84-124	1	0-9	
1,1-Dichloroethene	102	99	77-125	69-133	3	0-16	
Ethylbenzene	101	99	80-120	73-127	1	0-20	
Toluene	102	104	83-125	76-132	2	0-9	
Trichloroethene	99	97	89-119	84-124	3	0-8	
Vinyl Chloride	118	132	63-135	51-147	11	0-13	
Methyl-t-Butyl Ether (MTBE)	97	98	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	69	75	46-154	28-172	9	0-32	
Diisopropyl Ether (DIPE)	98	96	81-123	74-130	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	93	94	74-122	66-130	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	93	94	76-124	68-132	1	0-10	
Ethanol	102	117	60-138	47-151	14	0-32	

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 Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 5035
Method: EPA 8260B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-16,961	**Solid**	**GC/MS XX**	**11/01/08**	**11/01/08**	**081101L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	98	96	85-115	80-120	2	0-11	
Carbon Tetrachloride	101	97	68-134	57-145	5	0-14	
Chlorobenzene	97	96	83-119	77-125	2	0-9	
1,2-Dibromoethane	97	97	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	99	95	57-135	44-148	4	0-10	
1,1-Dichloroethene	102	98	72-120	64-128	4	0-10	
Ethylbenzene	104	101	80-120	73-127	3	0-20	
Toluene	99	97	67-127	57-137	2	0-10	
Trichloroethene	98	98	88-112	84-116	1	0-9	
Vinyl Chloride	126	125	57-129	45-141	1	0-16	
Methyl-t-Butyl Ether (MTBE)	97	104	76-124	68-132	7	0-12	
Tert-Butyl Alcohol (TBA)	85	71	31-145	12-164	17	0-23	
Diisopropyl Ether (DIPE)	103	102	74-128	65-137	1	0-10	
Ethyl-t-Butyl Ether (ETBE)	98	101	77-125	69-133	3	0-9	
Tert-Amyl-Methyl Ether (TAME)	100	101	81-123	74-130	1	0-10	
Ethanol	130	103	44-152	26-170	23	0-24	

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 Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 5030B
Method: EPA 8260B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-796-443	**Solid**	**GC/MS U**	**11/01/08**	**11/01/08**	**081101L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	96	100	84-114	79-119	4	0-7	
Carbon Tetrachloride	118	123	66-132	55-143	4	0-12	
Chlorobenzene	91	96	87-111	83-115	5	0-7	
1,2-Dibromoethane	97	101	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	93	92	79-115	73-121	1	0-8	
1,1-Dichloroethene	98	109	73-121	65-129	10	0-12	
Ethylbenzene	93	97	80-120	73-127	4	0-20	
Toluene	96	103	78-114	72-120	7	0-7	
Trichloroethene	93	98	84-114	79-119	5	0-8	
Vinyl Chloride	96	107	63-129	52-140	11	0-15	
Methyl-t-Butyl Ether (MTBE)	96	102	77-125	69-133	6	0-11	
Tert-Butyl Alcohol (TBA)	88	97	47-137	32-152	10	0-27	
Diisopropyl Ether (DIPE)	94	96	76-130	67-139	2	0-8	
Ethyl-t-Butyl Ether (ETBE)	95	98	76-124	68-132	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	102	82-118	76-124	2	0-11	
Ethanol	88	95	59-131	47-143	8	0-21	

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 Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-10-2683

Qualifier	Definition
*	See applicable analysis comment.
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 matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
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.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Revised COC
08-10-2683
Received 11/03/08

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CHAIN OF CUSTODY RECORD

Date 10/30/08
Page 2 of 5

LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 26691 Plaza #270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: 949 470 1937 E-MAIL: CStolz@pacificedge-eng.com
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL
SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage
PROJECT CONTACT: Craig Stolz
SAMPLER(S) (PRINT): Scott Miles
COELT LOG CODE:
P.O. NO:
LAB USE ONLY: 10-2683
COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or ( )	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) ✓	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+		PAH 8270 SIM	Arsenic, Lead, Cadmium TOTAL
11	GS15-0.5'		10/30/08	1030	Soil	1										X								X
12	GS15-5'			1035		4			X		X					X							X	X
13	GS15-10'			1040	↓	4			X		X													
14	GS15-GW			1105	H2O	5			X		X													X
15	GS16-0.5'			1125	Soil	1										X								X
16	GS16-5'			1130		4			X		X					X							X	X
17	GS16-10'			1135	↓	4			X		X													
18	GS16-GW			1145	H2O	5			X		X													
19	GS18-0.5'			1200	Soil	1										X								X
20	GS18-5'			1205	↓	4			X		X					X								X

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Scott Miles	Precy A - CEL	10/30/08	16:24
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(925) 689-9022

Date 10/30/08

Page 1 of 5

LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 26691 Plaza #270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: 949 470 1937 E-MAIL: CStolz@pacificedge-eng.com
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL
SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage
P.O. NO.:
PROJECT CONTACT: Craig Stolz
LAB USE ONLY: 10-2683
SAMPLER(S): (PRINT) Scott Miles
COELT LOG CODE:
COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44+)	BTEX / MTBE (8260B) or (____)	VOCs (8260B) x	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) x	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____	PAH 8270C SIM	TOTAL Chem. Lead, Cadmium
1	GS14-0.5'		10/30/08	0835	Soil	1										X							X
2	GS 14 - 5'			0840		1			X		X					X						X	X
3	GS 14 - 9.5'			0845		1			X		X												
4	GS12 - 0.5'			0907		1										X							X
5	GS17 - 5'			0912		1			X		X					X							X
6	GS17 - 10'			0915		1			X		X											X	
7	GS13 - 0.5'			0940		1										X						X	X
8	GS13 - 5'			0945		4			X		X					X						X	X
9	GS13 - 10'			0950		4			X		X												X
10	GS13 - GW			1000	H2O	5			X		X												

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Date 10/30/08
Page 2 of 5

LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 26691 Plaza #270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: 949 470 1937 E-MAIL: CStolz@pacificedge-eng.com
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL
SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage
P.O. NO.:
PROJECT CONTACT: Craig Stolz
LAB USE ONLY: 10-2683
SAMPLER(S): (PRINT) Scott Miles
COELT LOG CODE:
COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (____)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____		PAH 8270 SIM	7 OTAL Arsenic, Lead, Cadmium
11	GS15-0.5'		10/30/08	1030	Soil	1										X								X
12	GS15-5'			1035		4			X		X					X							X	X
13	GS15-10'			1040	↓	4			X		X													
14	GS15-GW			1105	H2O	5			X		X													X
15	GS16-0.5'			1125	Soil	1										X								X
16	GS16-5'			1130		4			X		X					X							X	X
17	GS16-10'			1135	↓	4			X		X													
18	GS16-GW			1145	H2O	5			X		X													
19	GS18-0.5'			1200	Soil	4										X								X
20	GS18-5'		↓	1205	↓	4			X		X					X								X

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Scott Miles	Precy A - CEL	10/30/08	16:24
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Date 10/30/08

Page 3 of 5

LABORATORY CLIENT: Pacific Edge Engineering		CLIENT PROJECT NAME / NUMBER: PCA - 7th Street Garage	P.O. NO.:
ADDRESS: 26691 PLAZA, Suite 270		PROJECT CONTACT: Craig Stolz	LAB USE ONLY 10-2683
CITY: Mission Viejo	STATE: CA ZIP: 92691	SAMPLER(S): (PRINT) Scott Miles	COELT LOG CODE
TEL: (949) 470-1937	E-MAIL: CStolz@pacificedge-eng.com		COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (____)	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) X	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____		PAH 8270 SIM	Arsen i, Total Cadmium
21	GS18-10'		10/30/08	1215	Soil	4			X		X												X	
22	GS19-0.5			1250		1										X								X
23	GS19-1'			1252		1			X							X								X
24	GS19-5'			1255		4			X		X												X	
25	GS19-10'			1300		4			X		X													
26	GS19-GW			1310	H_2O	5			X		X													
27	GS20-0.5			1320	Soil	1										X								X
28	GS20-1'			1322		1										X							X	X
29	GS20-5'			1328		4			X		X													
30	GS20-10'			1340		4			X		X													

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Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza, Suite 270

CITY: Mission Viejo | STATE: CA | ZIP: 92691

TEL: (949) 470-1937 | E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage

PROJECT CONTACT: Craig Stolz

P.O. NO.:

LAB USE ONLY: 10-2683

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (____)	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) X	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____		PAH 8270 SIM Total Arsenic, Lead, Cadmium	
31	GS20-GW		10/30/08	1350	H2O	5			X		X													
32	GS23-0.5'			1355	Soil	1										X								X
33	GS23-1'			1357		1										X								X
34	GS23-5'			1401		4			X		X					X								
35	GS23-10'			1405		4			X		X												X	
36	GS22-0.5'			1430		1										X								X
37	GS22-1'			1433		1										X								X
38	GS22-5'			1440		4			X		X												X	
39	GS22-10'			1445		4			X		X													
40	GS23-GW			1415	H2O	5			X		X													

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Preeya A. CEL	10/30/08	16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☒ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

Date 10/30/08

Page 5 of 5

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: (949) 470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA 7th Street Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2683

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) X	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+ ___		PAH 8270 SIM	Total Arsenic, Lead, Cadmium
41	GS22-GW		10/30/08	1500	H2O	5			X		X												(CAM)	X
42	GS22-0.5			1510	Soil	1										X								X
43	GS21-5'			1515		4			X		X					X							X	X
44	GS21-10'			1520		4			X		X													
45	GS21-GW			1530	H2O	5			X		X													

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Tracy L - CEL	10/30/08	16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-0268 3

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: PACIFIC EDGE ENGINEERING

DATE: 10/30/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C + 1.8 °C (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.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐Air ☐Filter **Initial:** PS

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	Initial: PS
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present	Initial: PS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Proper preservation noted on sample label(s)	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑4 VOAh ☐$VOANa_2$ ☐125AGB ☐125AGBh ☐$125AGBpo_4$ ☑1AGB ☐$1AGBna_2$

☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB

☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐$100PBna_2$ ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Checked/Labeled by: PS

Reviewed by: NC

Scanned by: PS

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2683

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: PACIFIC EDGE ENGINEERING DATE: 10/30/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.6 °C + 1.8 °C (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.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐Air ☐Filter Initial: PS

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: PS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: PS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Proper preservation noted on sample label(s)	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐$VOANa_2$ ☐125AGB ☐125AGBh ☐$125AGBpo_4$ ☑1AGB ☐$1AGBna_2$ ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐$100PBna_2$ ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: PS

Reviewed by: MC

Scanned by: PS

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2683

SAMPLE ANOMALY FORM

CHAIN OF CUSTODY (COC):

Comments:

- ☐ **Not relinquished by client** – no signature
- ☐ **No date/time relinquished**
- ☐ **COC not received with samples** – notify PM
- ☐ **Incomplete information regarding samples, tests, etc.**

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples 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
- ☐ **No preservative noted on label** – list test and notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample labels do not match COC** – Note in comments
  - ☐ **Sample ID's**
  - ☐ **Date and Time Collected**
  - ☐ **Project Information**
  - ☑ **# of containers**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Other:** _____

(-19) GS18-0-5' RCVD 1 CONTAINER INSTEAD OF 4. (8260 not requested)

VOA 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 Vials Received

Comments: _____

Initial and Date PS 10-30-08

Calscience Environmental Laboratories, Inc.

November 10, 2008

Craig Stolz
Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Subject: **Calscience Work Order No.: 08-10-2805**
Client Reference: POLA-7th Street Garage

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/31/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received:	10/31/08
Work Order No:	08-10-2805
Preparation:	EPA 3050B
Method:	EPA 6010B
Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-0.5'	**08-10-2805-1-A**	**10/31/08 08:27**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:10**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	32.5	0.750	1		Lead	369	0.500	1	
Cadmium	4.36	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-1'	**08-10-2805-4-A**	**10/31/08 08:30**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:24**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.92	0.750	1		Lead	17.8	0.500	1	
Cadmium	0.560	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS31-0.5'	**08-10-2805-6-A**	**10/31/08 09:00**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:26**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	3.97	0.750	1		Lead	194	0.500	1	
Cadmium	8.55	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS31-1'	**08-10-2805-7-A**	**10/31/08 09:02**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:28**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.48	0.750	1		Lead	51.3	0.500	1	
Cadmium	1.23	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-0.5'	**08-10-2805-10-A**	**10/31/08 09:20**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:30**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	65.3	0.750	1		Lead	520	0.500	1	
Cadmium	1.09	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-1'	**08-10-2805-11-A**	**10/31/08 09:22**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:32**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.54	0.750	1		Lead	14.1	0.500	1	
Cadmium	4.96	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-0.5'	**08-10-2805-14-A**	**10/31/08 09:32**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:34**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	5.07	0.750	1		Lead	278	0.500	1	
Cadmium	1.77	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-1'	**08-10-2805-15-A**	**10/31/08 09:34**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:36**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	8.11	0.750	1		Lead	61.5	0.500	1	
Cadmium	2.01	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-0.5'	**08-10-2805-18-A**	**10/31/08 09:55**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:38**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	3.90	0.750	1		Lead	13.1	0.500	1	
Cadmium	0.637	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-1'	**08-10-2805-19-A**	**10/31/08 09:57**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:40**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	3.15	0.750	1		Lead	9.09	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-0.5'	**08-10-2805-23-A**	**10/31/08 11:03**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:42**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.83	0.750	1		Lead	157	0.500	1	
Cadmium	1.70	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-1'	**08-10-2805-24-A**	**10/31/08 11:05**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 17:49**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	6.31	0.750	1		Lead	61.7	0.500	1	
Cadmium	0.685	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS24-0.5'	**08-10-2805-28-A**	**10/31/08 11:37**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 17:51**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	59.3	0.750	1		Lead	167	0.500	1	
Cadmium	1.37	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS24-1'	**08-10-2805-29-A**	**10/31/08 11:39**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 17:53**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	105	0.750	1		Lead	63.1	0.500	1	
Cadmium	1.04	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-0.5'	**08-10-2805-32-A**	**10/31/08 11:53**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 17:55**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	5.83	0.750	1		Lead	106	0.500	1	
Cadmium	2.68	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-1'	**08-10-2805-33-A**	**10/31/08 11:55**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 17:57**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	3.16	0.750	1		Lead	69.0	0.500	1	
Cadmium	1.67	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-5'	**08-10-2805-34-A**	**10/31/08 11:58**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 17:59**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	7.79	0.750	1		Lead	5.74	0.500	1	
Cadmium	0.613	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA3-0.5'	**08-10-2805-43-A**	**10/31/08 12:37**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:00**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	2.74	0.500	1		Lead	319	0.500	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg
Project: POLA-7th Street Garage		Page 4 of 6

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA3-1'	**08-10-2805-44-A**	**10/31/08 12:38**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:02**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	11.7	0.500	1		Lead	536	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA4-0.5'	**08-10-2805-46-A**	**10/31/08 12:40**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:04**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	3.08	0.500	1		Lead	758	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA4-1'	**08-10-2805-47-A**	**10/31/08 12:41**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:06**	**081103L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	3.20	0.500	1		Lead	302	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA5-0.5'	**08-10-2805-49-A**	**10/31/08 12:44**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:15**	**081103L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	3.32	0.500	1		Lead	1110	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA6-0.5'	**08-10-2805-52-A**	**10/31/08 12:47**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:12**	**081103L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	5.48	0.500	1		Lead	181	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA6-1'	**08-10-2805-53-A**	**10/31/08 12:48**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:14**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	303	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA7-0.5'	**08-10-2805-55-A**	**10/31/08 12:50**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:16**	**081103L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	1.71	0.500	1		Lead	106	0.500	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg
Project: POLA-7th Street Garage		Page 5 of 6

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA7-1'	**08-10-2805-56-A**	**10/31/08 12:51**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:18**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	191	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA8-0.5'	**08-10-2805-58-A**	**10/31/08 12:54**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:20**	**081103L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	3.21	0.500	1		Lead	217	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA8-1'	**08-10-2805-59-A**	**10/31/08 12:55**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:22**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	1550	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA9-0.5'	**08-10-2805-61-A**	**10/31/08 12:57**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:23**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	161	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA9-1'	**08-10-2805-62-A**	**10/31/08 12:58**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:25**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	82.0	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA10-0.5'	**08-10-2805-64-A**	**10/31/08 12:59**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:27**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	47.3	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA10-1'	**08-10-2805-65-A**	**10/31/08 13:00**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:29**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	4.46	0.500	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA11-0.5'	**08-10-2805-67-A**	**10/31/08 13:02**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:35**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	147	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA11-3'	**08-10-2805-70-A**	**10/31/08 13:05**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:37**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	5.62	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA12-0.5'	**08-10-2805-71-A**	**10/31/08 13:07**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:39**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	221	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA12-3'	**08-10-2805-74-A**	**10/31/08 13:10**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:41**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	10.8	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-11,698**	**N/A**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:02**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	ND	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-11,699**	**N/A**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:04**	**081103L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	ND	0.500	1	
Cadmium	ND	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)
	Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-5'	**08-10-2805-2-A**	**10/31/08 08:35**	**Solid**	**GC 15**	**11/03/08**	**11/03/08 00:00**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.30		1	
C7	ND		1		C23-C24	0.27		1	
C8	ND		1		C25-C28	3.4		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	0.72		1		C41-C44	ND		1	
C17-C18	0.11		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.064		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	113	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-10'	**08-10-2805-3-A**	**10/31/08 08:40**	**Solid**	**GC 15**	**11/03/08**	**11/03/08 00:35**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.38		1	
C7	ND		1		C23-C24	0.33		1	
C8	ND		1		C25-C28	2.9		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	0.032		1		C37-C40	ND		1	
C15-C16	0.59		1		C41-C44	ND		1	
C17-C18	0.011		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.020		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS31-5'	**08-10-2805-8-A**	**10/31/08 09:08**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 01:10**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.27		1	
C7	ND		1		C23-C24	0.30		1	
C8	ND		1		C25-C28	0.73		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	0.26		1		C41-C44	ND		1	
C17-C18	0.044		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.045		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	101	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS31-10'	**08-10-2805-9-A**	**10/31/08 09:11**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 01:45**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.32		1	
C7	ND		1		C23-C24	0.52		1	
C8	ND		1		C25-C28	5.0		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	0.68		1		C41-C44	ND		1	
C17-C18	0.029		1		C6-C44 Total	6.6	5.0	1	
C19-C20	0.11		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	109	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-5'	**08-10-2805-12-A**	**10/31/08 09:24**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 12:21**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	2.3		1	
C7	0.64		1		C23-C24	2.4		1	
C8	0.52		1		C25-C28	11		1	
C9-C10	0.36		1		C29-C32	7.7		1	
C11-C12	0.97		1		C33-C36	5.2		1	
C13-C14	0.64		1		C37-C40	5.1		1	
C15-C16	1.4		1		C41-C44	3.2		1	
C17-C18	1.2		1		C6-C44 Total	45	5.0	1	
C19-C20	1.8		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	108	61-145	

GS29-10'	**08-10-2805-13-A**	**10/31/08 09:27**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 02:55**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.35		1	
C7	ND		1		C23-C24	1.0		1	
C8	ND		1		C25-C28	1.8		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	0.30		1		C41-C44	ND		1	
C17-C18	0.0079		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.021		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-5'	**08-10-2805-16-A**	**10/31/08 09:38**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 03:31**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.36		1	
C7	ND		1		C23-C24	0.65		1	
C8	ND		1		C25-C28	7.2		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.35		1		C33-C36	ND		1	
C13-C14	0.15		1		C37-C40	ND		1	
C15-C16	1.2		1		C41-C44	ND		1	
C17-C18	0.088		1		C6-C44 Total	10	5.0	1	
C19-C20	0.080		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	61-145	

GS28-10'	08-10-2805-17-A	10/31/08 09:43	Solid	GC 15	11/03/08	11/04/08 04:06	081103B06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.047		1	
C7	ND		1		C23-C24	0.28		1	
C8	ND		1		C25-C28	0.83		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-1'	**08-10-2805-19-A**	**10/31/08 09:57**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 04:42**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		2		C21-C22	8.9		2	
C7	ND		2		C23-C24	12		2	
C8	0.54		2		C25-C28	29		2	
C9-C10	0.42		2		C29-C32	34		2	
C11-C12	0.28		2		C33-C36	25		2	
C13-C14	0.65		2		C37-C40	28		2	
C15-C16	1.5		2		C41-C44	15		2	
C17-C18	3.1		2		C6-C44 Total	160	10	2	
C19-C20	6.1		2						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	109	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-5'	**08-10-2805-20-A**	**10/31/08 10:00**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 05:52**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.26		1	
C7	ND		1		C23-C24	0.61		1	
C8	ND		1		C25-C28	3.5		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.22		1		C33-C36	ND		1	
C13-C14	0.19		1		C37-C40	ND		1	
C15-C16	0.52		1		C41-C44	ND		1	
C17-C18	0.14		1		C6-C44 Total	5.6	5.0	1	
C19-C20	0.13		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-10'	**08-10-2805-21-A**	**10/31/08 10:04**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 11:11**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		100		C21-C22	1500		100	
C7	ND		100		C23-C24	1300		100	
C8	100		100		C25-C28	2600		100	
C9-C10	590		100		C29-C32	2300		100	
C11-C12	1200		100		C33-C36	1600		100	
C13-C14	1900		100		C37-C40	1500		100	
C15-C16	1900		100		C41-C44	1000		100	
C17-C18	1600		100		C6-C44 Total	21000	500	100	
C19-C20	1700		100						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	124	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-1'	**08-10-2805-24-A**	**10/31/08 11:05**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 13:31**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		50		C21-C22	950		50	
C7	ND		50		C23-C24	960		50	
C8	ND		50		C25-C28	2600		50	
C9-C10	ND		50		C29-C32	2700		50	
C11-C12	3.8		50		C33-C36	2100		50	
C13-C14	53		50		C37-C40	2100		50	
C15-C16	200		50		C41-C44	1500		50	
C17-C18	390		50		C6-C44 Total	14000	250	50	
C19-C20	640		50						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	165	61-145	2

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-5'	**08-10-2805-25-A**	**10/31/08 11:08**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 07:39**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	0.18		1	
C8	ND		1		C25-C28	0.28		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	106	61-145	

GS25-10'	**08-10-2805-26-A**	**10/31/08 11:12**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 08:14**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.39		1	
C7	ND		1		C23-C24	0.40		1	
C8	ND		1		C25-C28	4.3		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.36		1		C33-C36	ND		1	
C13-C14	0.18		1		C37-C40	ND		1	
C15-C16	0.72		1		C41-C44	ND		1	
C17-C18	0.060		1		C6-C44 Total	6.5	5.0	1	
C19-C20	0.10		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS24-5'	**08-10-2805-30-A**	**10/31/08 11:43**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 12:56**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	1.3		1	
C7	ND		1		C23-C24	1.4		1	
C8	0.29		1		C25-C28	6.0		1	
C9-C10	0.19		1		C29-C32	3.1		1	
C11-C12	0.13		1		C33-C36	1.9		1	
C13-C14	0.23		1		C37-C40	3.2		1	
C15-C16	0.51		1		C41-C44	2.8		1	
C17-C18	0.32		1		C6-C44 Total	22	5.0	1	
C19-C20	0.61		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	116	61-145	

GS24-10'	**08-10-2805-31-A**	**10/31/08 11:46**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 09:25**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.34		1	
C7	ND		1		C23-C24	0.83		1	
C8	ND		1		C25-C28	0.57		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	0.044		1		C37-C40	ND		1	
C15-C16	0.20		1		C41-C44	ND		1	
C17-C18	0.095		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.11		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-5'	**08-10-2805-34-A**	**10/31/08 11:58**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 10:00**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.21		1	
C7	ND		1		C23-C24	0.21		1	
C8	ND		1		C25-C28	4.3		1	
C9-C10	0.90		1		C29-C32	0.17		1	
C11-C12	1.0		1		C33-C36	ND		1	
C13-C14	0.52		1		C37-C40	ND		1	
C15-C16	1.5		1		C41-C44	ND		1	
C17-C18	0.27		1		C6-C44 Total	9.3	5.0	1	
C19-C20	0.21		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	106	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-10'	**08-10-2805-35-A**	**10/31/08 12:04**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 10:36**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.22		1	
C7	ND		1		C23-C24	0.19		1	
C8	ND		1		C25-C28	1.6		1	
C9-C10	1.5		1		C29-C32	0.60		1	
C11-C12	0.94		1		C33-C36	ND		1	
C13-C14	0.50		1		C37-C40	ND		1	
C15-C16	1.0		1		C41-C44	ND		1	
C17-C18	0.32		1		C6-C44 Total	7.1	5.0	1	
C19-C20	0.22		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-275-2,277**	**N/A**	**Solid**	**GC 15**	**11/03/08**	**11/03/08 20:26**	**081103B06**

Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	5.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-GW	**08-10-2805-5-E**	**10/31/08 08:50**	**Aqueous**	**GC 46**	**11/05/08**	**11/05/08 20:51**	**081105B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	5.4		1	
C7	ND		1		C23-C24	11		1	
C8	ND		1		C25-C28	32		1	
C9-C10	ND		1		C29-C32	24		1	
C11-C12	ND		1		C33-C36	12		1	
C13-C14	ND		1		C37-C40	5.1		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	1.6		1		C6-C44 Total	98	50	1	
C19-C20	7.7		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-GW	**08-10-2805-22-E**	**10/31/08 10:15**	**Aqueous**	**GC 46**	**11/05/08**	**11/05/08 21:06**	**081105B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		10		C21-C22	4200		10	
C7	ND		10		C23-C24	2900		10	
C8	ND		10		C25-C28	3300		10	
C9-C10	79		10		C29-C32	3100		10	
C11-C12	680		10		C33-C36	1800		10	
C13-C14	1600		10		C37-C40	1600		10	
C15-C16	3900		10		C41-C44	880		10	
C17-C18	4200		10		C6-C44 Total	34000	500	10	
C19-C20	5700		10						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-GW	**08-10-2805-27-E**	**10/31/08 11:20**	**Aqueous**	**GC 46**	**11/05/08**	**11/05/08 21:22**	**081105B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	91		1	
C7	ND		1		C23-C24	100		1	
C8	1.1		1		C25-C28	90		1	
C9-C10	14		1		C29-C32	75		1	
C11-C12	32		1		C33-C36	40		1	
C13-C14	59		1		C37-C40	26		1	
C15-C16	69		1		C41-C44	24		1	
C17-C18	80		1		C6-C44 Total	780	50	1	
C19-C20	72		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	68-140	

GS26-GW	08-10-2805-36-E	10/31/08 12:15	Aqueous	GC 46	11/05/08	11/05/08 21:37	081105B05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	9.1		1	
C7	ND		1		C23-C24	100		1	
C8	ND		1		C25-C28	42		1	
C9-C10	ND		1		C29-C32	32		1	
C11-C12	ND		1		C33-C36	14		1	
C13-C14	ND		1		C37-C40	6.3		1	
C15-C16	5.9		1		C41-C44	2.1		1	
C17-C18	ND		1		C6-C44 Total	260	50	1	
C19-C20	49		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	119	68-140	

Method Blank	099-12-330-807	N/A	Aqueous	GC 46	11/05/08	11/05/08 16:15	081105B05

Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-5'	**08-10-2805-2-A**	**10/31/08 08:35**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 18:11**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	124	18-162			2-Fluorobiphenyl	101	14-146		
p-Terphenyl-d14	106	34-148							

GS31-5'	**08-10-2805-8-A**	**10/31/08 09:08**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 18:57**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	112	18-162			2-Fluorobiphenyl	92	14-146		
p-Terphenyl-d14	93	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-10'	**08-10-2805-13-A**	**10/31/08 09:27**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 19:43**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	79	18-162			2-Fluorobiphenyl	68	14-146		
p-Terphenyl-d14	70	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-10'	**08-10-2805-17-A**	**10/31/08 09:43**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 20:30**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	110	18-162			2-Fluorobiphenyl	90	14-146		
p-Terphenyl-d14	93	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-10'	**08-10-2805-21-A**	**10/31/08 10:04**	**Solid**	**GC/MS GG**	**11/03/08**	**11/06/08 23:16**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	8.3	1.0	50		Benzo (a) Anthracene	ND	1.0	50	
2-Methylnaphthalene	26	1.0	50		Chrysene	ND	1.0	50	
Acenaphthylene	ND	1.0	50		Benzo (k) Fluoranthene	ND	1.0	50	
Acenaphthene	1.2	1.0	50		Benzo (b) Fluoranthene	ND	1.0	50	
Fluorene	1.6	1.0	50		Benzo (a) Pyrene	ND	1.0	50	
Phenanthrene	4.2	1.0	50		Benzo (g,h,i) Perylene	ND	1.0	50	
Anthracene	ND	1.0	50		Indeno (1,2,3-c,d) Pyrene	ND	1.0	50	
Fluoranthene	ND	1.0	50		Dibenz (a,h) Anthracene	ND	1.0	50	
Pyrene	ND	1.0	50		1-Methylnaphthalene	17	1.0	50	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	518	18-162		2,1	2-Fluorobiphenyl	95	14-146		
p-Terphenyl-d14	132	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-5'	**08-10-2805-25-A**	**10/31/08 11:08**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 21:16**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	105	18-162			2-Fluorobiphenyl	89	14-146		
p-Terphenyl-d14	98	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS24-10'	**08-10-2805-31-A**	**10/31/08 11:46**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 22:03**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	98	18-162			2-Fluorobiphenyl	83	14-146		
p-Terphenyl-d14	90	34-148							

GS26-5'	**08-10-2805-34-A**	**10/31/08 11:58**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 22:49**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	100	18-162			2-Fluorobiphenyl	84	14-146		
p-Terphenyl-d14	86	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8270C SIM PAHs
	Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-06-010-243**	**N/A**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 17:26**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	55	18-162			2-Fluorobiphenyl	53	14-146		
p-Terphenyl-d14	44	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-0.5'	**08-10-2805-1-A**	**10/31/08 08:27**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 16:15**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	500	10		Aroclor-1248	4400	500	10	
Aroclor-1221	ND	500	10		Aroclor-1254	ND	500	10	
Aroclor-1232	ND	500	10		Aroclor-1260	ND	500	10	
Aroclor-1242	ND	500	10		Aroclor-1262	ND	500	10	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	61	50-130			2,4,5,6-Tetrachloro-m-Xylene	66	50-130		

GS30-1'	**08-10-2805-4-A**	**10/31/08 08:30**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 16:34**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	56	50-130			2,4,5,6-Tetrachloro-m-Xylene	67	50-130		

GS31-0.5'	**08-10-2805-6-A**	**10/31/08 09:00**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 16:53**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	5000	100		Aroclor-1248	33000	5000	100	
Aroclor-1221	ND	5000	100		Aroclor-1254	ND	5000	100	
Aroclor-1232	ND	5000	100		Aroclor-1260	ND	5000	100	
Aroclor-1242	ND	5000	100		Aroclor-1262	ND	5000	100	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	93	50-130			2,4,5,6-Tetrachloro-m-Xylene	83	50-130		

GS31-1'	**08-10-2805-7-A**	**10/31/08 09:02**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 17:12**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	320	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	55	50-130			2,4,5,6-Tetrachloro-m-Xylene	60	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-0.5'	**08-10-2805-10-A**	**10/31/08 09:20**	**Solid**	**GC 31**	**11/03/08**	**11/07/08 14:38**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	46	50-130		2	2,4,5,6-Tetrachloro-m-Xylene	62	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-1'	**08-10-2805-11-A**	**10/31/08 09:22**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 16:35**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	59	50-130			2,4,5,6-Tetrachloro-m-Xylene	86	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-0.5'	**08-10-2805-14-A**	**10/31/08 09:32**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 15:56**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	220	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	54	50-130			2,4,5,6-Tetrachloro-m-Xylene	57	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-1'	**08-10-2805-15-A**	**10/31/08 09:34**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 05:14**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	82	50-130			2,4,5,6-Tetrachloro-m-Xylene	80	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-0.5'	**08-10-2805-18-A**	**10/31/08 09:55**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 05:33**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	70	50-130			2,4,5,6-Tetrachloro-m-Xylene	78	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-1'	**08-10-2805-19-A**	**10/31/08 09:57**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 05:52**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	75	50-130			2,4,5,6-Tetrachloro-m-Xylene	97	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-5'	**08-10-2805-25-A**	**10/31/08 11:08**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 06:11**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	71	50-130			2,4,5,6-Tetrachloro-m-Xylene	79	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-10'	**08-10-2805-26-A**	**10/31/08 11:12**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 06:30**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	83	50-130			2,4,5,6-Tetrachloro-m-Xylene	87	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS24-0.5'	**08-10-2805-28-A**	**10/31/08 11:37**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 06:49**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	120	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	66	50-130			2,4,5,6-Tetrachloro-m-Xylene	73	50-130		

GS24-1'	**08-10-2805-29-A**	**10/31/08 11:39**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 07:08**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	57	50-130			2,4,5,6-Tetrachloro-m-Xylene	89	50-130		

GS26-0.5'	**08-10-2805-32-A**	**10/31/08 11:53**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 07:27**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	125	50-130			2,4,5,6-Tetrachloro-m-Xylene	85	50-130		

GS26-1'	**08-10-2805-33-A**	**10/31/08 11:55**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 07:46**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	58	50-130			2,4,5,6-Tetrachloro-m-Xylene	85	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA6-0.5'	**08-10-2805-52-A**	**10/31/08 12:47**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 08:05**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	61	50-130			2,4,5,6-Tetrachloro-m-Xylene	67	50-130		

HA6-1'	**08-10-2805-53-A**	**10/31/08 12:48**	**Solid**	**GC 31**	**11/03/08**	**11/07/08 13:40**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	440	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	320	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	31	50-130		2	2,4,5,6-Tetrachloro-m-Xylene	44	50-130		2

HA7-0.5'	**08-10-2805-55-A**	**10/31/08 12:50**	**Solid**	**GC 31**	**11/03/08**	**11/07/08 13:59**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	37	50-130		2	2,4,5,6-Tetrachloro-m-Xylene	46	50-130		2

HA7-1'	**08-10-2805-56-A**	**10/31/08 12:51**	**Solid**	**GC 31**	**11/03/08**	**11/07/08 14:19**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	250	5		Aroclor-1248	ND	250	5	
Aroclor-1221	ND	250	5		Aroclor-1254	2100	250	5	
Aroclor-1232	ND	250	5		Aroclor-1260	ND	250	5	
Aroclor-1242	ND	250	5		Aroclor-1262	ND	250	5	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	106	50-130			2,4,5,6-Tetrachloro-m-Xylene	196	50-130		2

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA8-0.5'	**08-10-2805-58-A**	**10/31/08 12:54**	**Solid**	**GC 16**	**11/03/08**	**11/07/08 13:21**	**081103L12**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	100	2		Aroclor-1248	1900	100	2	
Aroclor-1221	ND	100	2		Aroclor-1254	850	100	2	
Aroclor-1232	ND	100	2		Aroclor-1260	ND	100	2	
Aroclor-1242	ND	100	2		Aroclor-1262	ND	100	2	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	56	50-130			2,4,5,6-Tetrachloro-m-Xylene	46	50-130		2

HA8-1'	**08-10-2805-59-A**	**10/31/08 12:55**	**Solid**	**GC 16**	**11/03/08**	**11/06/08 02:15**	**081103L12**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	540	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	60	50-130			2,4,5,6-Tetrachloro-m-Xylene	68	50-130		

Method Blank	**099-12-535-489**	**N/A**	**Solid**	**GC 16**	**11/03/08**	**11/04/08 21:26**	**081103L12**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	51	50-130			2,4,5,6-Tetrachloro-m-Xylene	64	50-130		

Method Blank	**099-12-535-493**	**N/A**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 14:20**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	68	50-130			2,4,5,6-Tetrachloro-m-Xylene	89	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-GW	**08-10-2805-5-A**	**10/31/08 08:50**	**Aqueous**	**GC/MS EE**	**11/05/08**	**11/05/08 20:07**	**081105L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	82-130		1,2-Dichloroethane-d4	119	75-141	
Toluene-d8	99	83-113		1,4-Bromofluorobenzene	84	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-GW	**08-10-2805-22-B**	**10/31/08 10:15**	**Aqueous**	**GC/MS EE**	**11/06/08**	**11/06/08 15:19**	**081106L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	0.64	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	1.1	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	15	1.0	1	
n-Butylbenzene	4.1	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	6.3	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	29	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	16	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	82-130		1,2-Dichloroethane-d4	109	75-141	
Toluene-d8	104	83-113		1,4-Bromofluorobenzene	99	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-GW	**08-10-2805-27-A**	**10/31/08 11:20**	**Aqueous**	**GC/MS EE**	**11/05/08**	**11/05/08 21:12**	**081105L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	1.6	1.0	1	
n-Butylbenzene	1.5	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	1.6	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	2.8	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	2.9	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	1.4	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	117	82-130		1,2-Dichloroethane-d4	123	75-141	
Toluene-d8	102	83-113		1,4-Bromofluorobenzene	97	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-GW	**08-10-2805-36-A**	**10/31/08 12:15**	**Aqueous**	**GC/MS EE**	**11/05/08**	**11/05/08 21:44**	**081105L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	82-130		1,2-Dichloroethane-d4	119	75-141	
Toluene-d8	97	83-113		1,4-Bromofluorobenzene	84	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-27,386**	**N/A**	**Aqueous**	**GC/MS EE**	**11/05/08**	**11/05/08 13:40**	**081105L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	20	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	20	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	82-130		1,2-Dichloroethane-d4	115	75-141	
Toluene-d8	97	83-113		1,4-Bromofluorobenzene	85	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-27,406**	**N/A**	**Aqueous**	**GC/MS EE**	**11/06/08**	**11/06/08 13:09**	**081106L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	20	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	20	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	82-130		1,2-Dichloroethane-d4	117	75-141	
Toluene-d8	97	83-113		1,4-Bromofluorobenzene	82	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-5'	**08-10-2805-2-C**	**10/31/08 08:35**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 14:23**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	44	0.89		1,3-Dichloropropane	ND	0.89	0.89	
Benzene	ND	0.89	0.89		2,2-Dichloropropane	ND	4.4	0.89	
Bromobenzene	ND	0.89	0.89		1,1-Dichloropropene	ND	1.8	0.89	
Bromochloromethane	ND	1.8	0.89		c-1,3-Dichloropropene	ND	0.89	0.89	
Bromodichloromethane	ND	0.89	0.89		t-1,3-Dichloropropene	ND	1.8	0.89	
Bromoform	ND	4.4	0.89		Ethylbenzene	ND	0.89	0.89	
Bromomethane	ND	18	0.89		2-Hexanone	ND	18	0.89	
2-Butanone	ND	18	0.89		Isopropylbenzene	ND	0.89	0.89	
n-Butylbenzene	ND	0.89	0.89		p-Isopropyltoluene	ND	0.89	0.89	
sec-Butylbenzene	ND	0.89	0.89		Methylene Chloride	ND	8.9	0.89	
tert-Butylbenzene	ND	0.89	0.89		4-Methyl-2-Pentanone	ND	18	0.89	
Carbon Disulfide	ND	8.9	0.89		Naphthalene	ND	8.9	0.89	
Carbon Tetrachloride	ND	0.89	0.89		n-Propylbenzene	ND	1.8	0.89	
Chlorobenzene	ND	0.89	0.89		Styrene	ND	0.89	0.89	
Chloroethane	ND	1.8	0.89		1,1,1,2-Tetrachloroethane	ND	0.89	0.89	
Chloroform	ND	0.89	0.89		1,1,2,2-Tetrachloroethane	ND	1.8	0.89	
Chloromethane	ND	18	0.89		Tetrachloroethene	ND	0.89	0.89	
2-Chlorotoluene	ND	0.89	0.89		Toluene	ND	0.89	0.89	
4-Chlorotoluene	ND	0.89	0.89		1,2,3-Trichlorobenzene	ND	1.8	0.89	
Dibromochloromethane	ND	1.8	0.89		1,2,4-Trichlorobenzene	ND	1.8	0.89	
1,2-Dibromo-3-Chloropropane	ND	4.4	0.89		1,1,1-Trichloroethane	ND	0.89	0.89	
1,2-Dibromoethane	ND	0.89	0.89		1,1,2-Trichloroethane	ND	0.89	0.89	
Dibromomethane	ND	0.89	0.89		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.9	0.89	
1,2-Dichlorobenzene	ND	0.89	0.89		Trichloroethene	ND	1.8	0.89	
1,3-Dichlorobenzene	ND	0.89	0.89		Trichlorofluoromethane	ND	8.9	0.89	
1,4-Dichlorobenzene	ND	0.89	0.89		1,2,3-Trichloropropane	ND	1.8	0.89	
Dichlorodifluoromethane	ND	1.8	0.89		1,2,4-Trimethylbenzene	ND	1.8	0.89	
1,1-Dichloroethane	ND	0.89	0.89		1,3,5-Trimethylbenzene	ND	1.8	0.89	
1,2-Dichloroethane	ND	0.89	0.89		Vinyl Acetate	ND	8.9	0.89	
1,1-Dichloroethene	ND	0.89	0.89		Vinyl Chloride	ND	0.89	0.89	
c-1,2-Dichloroethene	ND	0.89	0.89		p/m-Xylene	ND	1.8	0.89	
t-1,2-Dichloroethene	ND	0.89	0.89		o-Xylene	ND	0.89	0.89	
1,2-Dichloropropane	ND	0.89	0.89		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.89	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	125	71-137		1,2-Dichloroethane-d4	137	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-10'	**08-10-2805-3-C**	**10/31/08 08:40**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 14:49**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	39	0.774		1,3-Dichloropropane	ND	0.77	0.774	
Benzene	ND	0.77	0.774		2,2-Dichloropropane	ND	3.9	0.774	
Bromobenzene	ND	0.77	0.774		1,1-Dichloropropene	ND	1.5	0.774	
Bromochloromethane	ND	1.5	0.774		c-1,3-Dichloropropene	ND	0.77	0.774	
Bromodichloromethane	ND	0.77	0.774		t-1,3-Dichloropropene	ND	1.5	0.774	
Bromoform	ND	3.9	0.774		Ethylbenzene	ND	0.77	0.774	
Bromomethane	ND	15	0.774		2-Hexanone	ND	15	0.774	
2-Butanone	ND	15	0.774		Isopropylbenzene	ND	0.77	0.774	
n-Butylbenzene	ND	0.77	0.774		p-Isopropyltoluene	ND	0.77	0.774	
sec-Butylbenzene	ND	0.77	0.774		Methylene Chloride	ND	7.7	0.774	
tert-Butylbenzene	ND	0.77	0.774		4-Methyl-2-Pentanone	ND	15	0.774	
Carbon Disulfide	ND	7.7	0.774		Naphthalene	ND	7.7	0.774	
Carbon Tetrachloride	ND	0.77	0.774		n-Propylbenzene	ND	1.5	0.774	
Chlorobenzene	ND	0.77	0.774		Styrene	ND	0.77	0.774	
Chloroethane	ND	1.5	0.774		1,1,1,2-Tetrachloroethane	ND	0.77	0.774	
Chloroform	ND	0.77	0.774		1,1,2,2-Tetrachloroethane	ND	1.5	0.774	
Chloromethane	ND	15	0.774		Tetrachloroethene	ND	0.77	0.774	
2-Chlorotoluene	ND	0.77	0.774		Toluene	ND	0.77	0.774	
4-Chlorotoluene	ND	0.77	0.774		1,2,3-Trichlorobenzene	ND	1.5	0.774	
Dibromochloromethane	ND	1.5	0.774		1,2,4-Trichlorobenzene	ND	1.5	0.774	
1,2-Dibromo-3-Chloropropane	ND	3.9	0.774		1,1,1-Trichloroethane	ND	0.77	0.774	
1,2-Dibromoethane	ND	0.77	0.774		1,1,2-Trichloroethane	ND	0.77	0.774	
Dibromomethane	ND	0.77	0.774		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.7	0.774	
1,2-Dichlorobenzene	ND	0.77	0.774		Trichloroethene	ND	1.5	0.774	
1,3-Dichlorobenzene	ND	0.77	0.774		Trichlorofluoromethane	ND	7.7	0.774	
1,4-Dichlorobenzene	ND	0.77	0.774		1,2,3-Trichloropropane	ND	1.5	0.774	
Dichlorodifluoromethane	ND	1.5	0.774		1,2,4-Trimethylbenzene	ND	1.5	0.774	
1,1-Dichloroethane	ND	0.77	0.774		1,3,5-Trimethylbenzene	ND	1.5	0.774	
1,2-Dichloroethane	ND	0.77	0.774		Vinyl Acetate	ND	7.7	0.774	
1,1-Dichloroethene	ND	0.77	0.774		Vinyl Chloride	ND	0.77	0.774	
c-1,2-Dichloroethene	ND	0.77	0.774		p/m-Xylene	ND	1.5	0.774	
t-1,2-Dichloroethene	ND	0.77	0.774		o-Xylene	ND	0.77	0.774	
1,2-Dichloropropane	ND	0.77	0.774		Methyl-t-Butyl Ether (MTBE)	ND	1.5	0.774	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	124	71-137			1,2-Dichloroethane-d4	134	58-160		
1,4-Bromofluorobenzene	87	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS31-5'	**08-10-2805-8-C**	**10/31/08 09:08**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 15:15**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.826		1,3-Dichloropropane	ND	0.83	0.826	
Benzene	ND	0.83	0.826		2,2-Dichloropropane	ND	4.1	0.826	
Bromobenzene	ND	0.83	0.826		1,1-Dichloropropene	ND	1.7	0.826	
Bromochloromethane	ND	1.7	0.826		c-1,3-Dichloropropene	ND	0.83	0.826	
Bromodichloromethane	ND	0.83	0.826		t-1,3-Dichloropropene	ND	1.7	0.826	
Bromoform	ND	4.1	0.826		Ethylbenzene	ND	0.83	0.826	
Bromomethane	ND	17	0.826		2-Hexanone	ND	17	0.826	
2-Butanone	ND	17	0.826		Isopropylbenzene	ND	0.83	0.826	
n-Butylbenzene	ND	0.83	0.826		p-Isopropyltoluene	ND	0.83	0.826	
sec-Butylbenzene	ND	0.83	0.826		Methylene Chloride	ND	8.3	0.826	
tert-Butylbenzene	ND	0.83	0.826		4-Methyl-2-Pentanone	ND	17	0.826	
Carbon Disulfide	ND	8.3	0.826		Naphthalene	ND	8.3	0.826	
Carbon Tetrachloride	ND	0.83	0.826		n-Propylbenzene	ND	1.7	0.826	
Chlorobenzene	ND	0.83	0.826		Styrene	ND	0.83	0.826	
Chloroethane	ND	1.7	0.826		1,1,1,2-Tetrachloroethane	ND	0.83	0.826	
Chloroform	ND	0.83	0.826		1,1,2,2-Tetrachloroethane	ND	1.7	0.826	
Chloromethane	ND	17	0.826		Tetrachloroethene	ND	0.83	0.826	
2-Chlorotoluene	ND	0.83	0.826		Toluene	ND	0.83	0.826	
4-Chlorotoluene	ND	0.83	0.826		1,2,3-Trichlorobenzene	ND	1.7	0.826	
Dibromochloromethane	ND	1.7	0.826		1,2,4-Trichlorobenzene	ND	1.7	0.826	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.826		1,1,1-Trichloroethane	ND	0.83	0.826	
1,2-Dibromoethane	ND	0.83	0.826		1,1,2-Trichloroethane	ND	0.83	0.826	
Dibromomethane	ND	0.83	0.826		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	0.826	
1,2-Dichlorobenzene	ND	0.83	0.826		Trichloroethene	ND	1.7	0.826	
1,3-Dichlorobenzene	ND	0.83	0.826		Trichlorofluoromethane	ND	8.3	0.826	
1,4-Dichlorobenzene	ND	0.83	0.826		1,2,3-Trichloropropane	ND	1.7	0.826	
Dichlorodifluoromethane	ND	1.7	0.826		1,2,4-Trimethylbenzene	ND	1.7	0.826	
1,1-Dichloroethane	ND	0.83	0.826		1,3,5-Trimethylbenzene	ND	1.7	0.826	
1,2-Dichloroethane	ND	0.83	0.826		Vinyl Acetate	ND	8.3	0.826	
1,1-Dichloroethene	ND	0.83	0.826		Vinyl Chloride	ND	0.83	0.826	
c-1,2-Dichloroethene	ND	0.83	0.826		p/m-Xylene	ND	1.7	0.826	
t-1,2-Dichloroethene	ND	0.83	0.826		o-Xylene	ND	0.83	0.826	
1,2-Dichloropropane	ND	0.83	0.826		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.826	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	127	71-137		1,2-Dichloroethane-d4	141	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS31-10'	**08-10-2805-9-C**	**10/31/08 09:11**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 15:41**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	40	0.796		1,3-Dichloropropane	ND	0.80	0.796	
Benzene	ND	0.80	0.796		2,2-Dichloropropane	ND	4.0	0.796	
Bromobenzene	ND	0.80	0.796		1,1-Dichloropropene	ND	1.6	0.796	
Bromochloromethane	ND	1.6	0.796		c-1,3-Dichloropropene	ND	0.80	0.796	
Bromodichloromethane	ND	0.80	0.796		t-1,3-Dichloropropene	ND	1.6	0.796	
Bromoform	ND	4.0	0.796		Ethylbenzene	ND	0.80	0.796	
Bromomethane	ND	16	0.796		2-Hexanone	ND	16	0.796	
2-Butanone	ND	16	0.796		Isopropylbenzene	ND	0.80	0.796	
n-Butylbenzene	ND	0.80	0.796		p-Isopropyltoluene	ND	0.80	0.796	
sec-Butylbenzene	ND	0.80	0.796		Methylene Chloride	ND	8.0	0.796	
tert-Butylbenzene	ND	0.80	0.796		4-Methyl-2-Pentanone	ND	16	0.796	
Carbon Disulfide	ND	8.0	0.796		Naphthalene	ND	8.0	0.796	
Carbon Tetrachloride	ND	0.80	0.796		n-Propylbenzene	ND	1.6	0.796	
Chlorobenzene	ND	0.80	0.796		Styrene	ND	0.80	0.796	
Chloroethane	ND	1.6	0.796		1,1,1,2-Tetrachloroethane	ND	0.80	0.796	
Chloroform	ND	0.80	0.796		1,1,2,2-Tetrachloroethane	ND	1.6	0.796	
Chloromethane	ND	16	0.796		Tetrachloroethene	ND	0.80	0.796	
2-Chlorotoluene	ND	0.80	0.796		Toluene	ND	0.80	0.796	
4-Chlorotoluene	ND	0.80	0.796		1,2,3-Trichlorobenzene	ND	1.6	0.796	
Dibromochloromethane	ND	1.6	0.796		1,2,4-Trichlorobenzene	ND	1.6	0.796	
1,2-Dibromo-3-Chloropropane	ND	4.0	0.796		1,1,1-Trichloroethane	ND	0.80	0.796	
1,2-Dibromoethane	ND	0.80	0.796		1,1,2-Trichloroethane	ND	0.80	0.796	
Dibromomethane	ND	0.80	0.796		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.0	0.796	
1,2-Dichlorobenzene	ND	0.80	0.796		Trichloroethene	ND	1.6	0.796	
1,3-Dichlorobenzene	ND	0.80	0.796		Trichlorofluoromethane	ND	8.0	0.796	
1,4-Dichlorobenzene	ND	0.80	0.796		1,2,3-Trichloropropane	ND	1.6	0.796	
Dichlorodifluoromethane	ND	1.6	0.796		1,2,4-Trimethylbenzene	ND	1.6	0.796	
1,1-Dichloroethane	ND	0.80	0.796		1,3,5-Trimethylbenzene	ND	1.6	0.796	
1,2-Dichloroethane	ND	0.80	0.796		Vinyl Acetate	ND	8.0	0.796	
1,1-Dichloroethene	ND	0.80	0.796		Vinyl Chloride	ND	0.80	0.796	
c-1,2-Dichloroethene	ND	0.80	0.796		p/m-Xylene	ND	1.6	0.796	
t-1,2-Dichloroethene	ND	0.80	0.796		o-Xylene	ND	0.80	0.796	
1,2-Dichloropropane	ND	0.80	0.796		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.796	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	124	71-137		1,2-Dichloroethane-d4	133	58-160	
1,4-Bromofluorobenzene	85	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-5'	**08-10-2805-12-C**	**10/31/08 09:24**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 16:08**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	40	0.791		1,3-Dichloropropane	ND	0.79	0.791	
Benzene	ND	0.79	0.791		2,2-Dichloropropane	ND	4.0	0.791	
Bromobenzene	ND	0.79	0.791		1,1-Dichloropropene	ND	1.6	0.791	
Bromochloromethane	ND	1.6	0.791		c-1,3-Dichloropropene	ND	0.79	0.791	
Bromodichloromethane	ND	0.79	0.791		t-1,3-Dichloropropene	ND	1.6	0.791	
Bromoform	ND	4.0	0.791		Ethylbenzene	ND	0.79	0.791	
Bromomethane	ND	16	0.791		2-Hexanone	ND	16	0.791	
2-Butanone	ND	16	0.791		Isopropylbenzene	ND	0.79	0.791	
n-Butylbenzene	ND	0.79	0.791		p-Isopropyltoluene	ND	0.79	0.791	
sec-Butylbenzene	ND	0.79	0.791		Methylene Chloride	ND	7.9	0.791	
tert-Butylbenzene	ND	0.79	0.791		4-Methyl-2-Pentanone	ND	16	0.791	
Carbon Disulfide	ND	7.9	0.791		Naphthalene	ND	7.9	0.791	
Carbon Tetrachloride	ND	0.79	0.791		n-Propylbenzene	ND	1.6	0.791	
Chlorobenzene	ND	0.79	0.791		Styrene	ND	0.79	0.791	
Chloroethane	ND	1.6	0.791		1,1,1,2-Tetrachloroethane	ND	0.79	0.791	
Chloroform	ND	0.79	0.791		1,1,2,2-Tetrachloroethane	ND	1.6	0.791	
Chloromethane	ND	16	0.791		Tetrachloroethene	ND	0.79	0.791	
2-Chlorotoluene	ND	0.79	0.791		Toluene	ND	0.79	0.791	
4-Chlorotoluene	ND	0.79	0.791		1,2,3-Trichlorobenzene	ND	1.6	0.791	
Dibromochloromethane	ND	1.6	0.791		1,2,4-Trichlorobenzene	ND	1.6	0.791	
1,2-Dibromo-3-Chloropropane	ND	4.0	0.791		1,1,1-Trichloroethane	ND	0.79	0.791	
1,2-Dibromoethane	ND	0.79	0.791		1,1,2-Trichloroethane	ND	0.79	0.791	
Dibromomethane	ND	0.79	0.791		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.9	0.791	
1,2-Dichlorobenzene	ND	0.79	0.791		Trichloroethene	ND	1.6	0.791	
1,3-Dichlorobenzene	ND	0.79	0.791		Trichlorofluoromethane	ND	7.9	0.791	
1,4-Dichlorobenzene	ND	0.79	0.791		1,2,3-Trichloropropane	ND	1.6	0.791	
Dichlorodifluoromethane	ND	1.6	0.791		1,2,4-Trimethylbenzene	ND	1.6	0.791	
1,1-Dichloroethane	ND	0.79	0.791		1,3,5-Trimethylbenzene	ND	1.6	0.791	
1,2-Dichloroethane	ND	0.79	0.791		Vinyl Acetate	ND	7.9	0.791	
1,1-Dichloroethene	ND	0.79	0.791		Vinyl Chloride	ND	0.79	0.791	
c-1,2-Dichloroethene	ND	0.79	0.791		p/m-Xylene	ND	1.6	0.791	
t-1,2-Dichloroethene	ND	0.79	0.791		o-Xylene	ND	0.79	0.791	
1,2-Dichloropropane	ND	0.79	0.791		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.791	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	127	71-137		1,2-Dichloroethane-d4	138	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-10'	**08-10-2805-13-C**	**10/31/08 09:27**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 16:34**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.828		1,3-Dichloropropane	ND	0.83	0.828	
Benzene	ND	0.83	0.828		2,2-Dichloropropane	ND	4.1	0.828	
Bromobenzene	ND	0.83	0.828		1,1-Dichloropropene	ND	1.7	0.828	
Bromochloromethane	ND	1.7	0.828		c-1,3-Dichloropropene	ND	0.83	0.828	
Bromodichloromethane	ND	0.83	0.828		t-1,3-Dichloropropene	ND	1.7	0.828	
Bromoform	ND	4.1	0.828		Ethylbenzene	ND	0.83	0.828	
Bromomethane	ND	17	0.828		2-Hexanone	ND	17	0.828	
2-Butanone	ND	17	0.828		Isopropylbenzene	ND	0.83	0.828	
n-Butylbenzene	ND	0.83	0.828		p-Isopropyltoluene	ND	0.83	0.828	
sec-Butylbenzene	ND	0.83	0.828		Methylene Chloride	ND	8.3	0.828	
tert-Butylbenzene	ND	0.83	0.828		4-Methyl-2-Pentanone	ND	17	0.828	
Carbon Disulfide	ND	8.3	0.828		Naphthalene	ND	8.3	0.828	
Carbon Tetrachloride	ND	0.83	0.828		n-Propylbenzene	ND	1.7	0.828	
Chlorobenzene	ND	0.83	0.828		Styrene	ND	0.83	0.828	
Chloroethane	ND	1.7	0.828		1,1,1,2-Tetrachloroethane	ND	0.83	0.828	
Chloroform	ND	0.83	0.828		1,1,2,2-Tetrachloroethane	ND	1.7	0.828	
Chloromethane	ND	17	0.828		Tetrachloroethene	ND	0.83	0.828	
2-Chlorotoluene	ND	0.83	0.828		Toluene	1.3	0.83	0.828	
4-Chlorotoluene	ND	0.83	0.828		1,2,3-Trichlorobenzene	ND	1.7	0.828	
Dibromochloromethane	ND	1.7	0.828		1,2,4-Trichlorobenzene	ND	1.7	0.828	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.828		1,1,1-Trichloroethane	ND	0.83	0.828	
1,2-Dibromoethane	ND	0.83	0.828		1,1,2-Trichloroethane	ND	0.83	0.828	
Dibromomethane	ND	0.83	0.828		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	0.828	
1,2-Dichlorobenzene	ND	0.83	0.828		Trichloroethene	ND	1.7	0.828	
1,3-Dichlorobenzene	ND	0.83	0.828		Trichlorofluoromethane	ND	8.3	0.828	
1,4-Dichlorobenzene	ND	0.83	0.828		1,2,3-Trichloropropane	ND	1.7	0.828	
Dichlorodifluoromethane	ND	1.7	0.828		1,2,4-Trimethylbenzene	ND	1.7	0.828	
1,1-Dichloroethane	ND	0.83	0.828		1,3,5-Trimethylbenzene	ND	1.7	0.828	
1,2-Dichloroethane	ND	0.83	0.828		Vinyl Acetate	ND	8.3	0.828	
1,1-Dichloroethene	ND	0.83	0.828		Vinyl Chloride	ND	0.83	0.828	
c-1,2-Dichloroethene	ND	0.83	0.828		p/m-Xylene	ND	1.7	0.828	
t-1,2-Dichloroethene	ND	0.83	0.828		o-Xylene	ND	0.83	0.828	
1,2-Dichloropropane	ND	0.83	0.828		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.828	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	128	71-137		1,2-Dichloroethane-d4	139	58-160	
1,4-Bromofluorobenzene	87	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-5'	**08-10-2805-16-C**	**10/31/08 09:38**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 17:00**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	45	0.896		1,3-Dichloropropane	ND	0.90	0.896	
Benzene	ND	0.90	0.896		2,2-Dichloropropane	ND	4.5	0.896	
Bromobenzene	ND	0.90	0.896		1,1-Dichloropropene	ND	1.8	0.896	
Bromochloromethane	ND	1.8	0.896		c-1,3-Dichloropropene	ND	0.90	0.896	
Bromodichloromethane	ND	0.90	0.896		t-1,3-Dichloropropene	ND	1.8	0.896	
Bromoform	ND	4.5	0.896		Ethylbenzene	ND	0.90	0.896	
Bromomethane	ND	18	0.896		2-Hexanone	ND	18	0.896	
2-Butanone	ND	18	0.896		Isopropylbenzene	ND	0.90	0.896	
n-Butylbenzene	ND	0.90	0.896		p-Isopropyltoluene	ND	0.90	0.896	
sec-Butylbenzene	ND	0.90	0.896		Methylene Chloride	ND	9.0	0.896	
tert-Butylbenzene	ND	0.90	0.896		4-Methyl-2-Pentanone	ND	18	0.896	
Carbon Disulfide	ND	9.0	0.896		Naphthalene	ND	9.0	0.896	
Carbon Tetrachloride	ND	0.90	0.896		n-Propylbenzene	ND	1.8	0.896	
Chlorobenzene	ND	0.90	0.896		Styrene	ND	0.90	0.896	
Chloroethane	ND	1.8	0.896		1,1,1,2-Tetrachloroethane	ND	0.90	0.896	
Chloroform	ND	0.90	0.896		1,1,2,2-Tetrachloroethane	ND	1.8	0.896	
Chloromethane	ND	18	0.896		Tetrachloroethene	ND	0.90	0.896	
2-Chlorotoluene	ND	0.90	0.896		Toluene	ND	0.90	0.896	
4-Chlorotoluene	ND	0.90	0.896		1,2,3-Trichlorobenzene	ND	1.8	0.896	
Dibromochloromethane	ND	1.8	0.896		1,2,4-Trichlorobenzene	ND	1.8	0.896	
1,2-Dibromo-3-Chloropropane	ND	4.5	0.896		1,1,1-Trichloroethane	ND	0.90	0.896	
1,2-Dibromoethane	ND	0.90	0.896		1,1,2-Trichloroethane	ND	0.90	0.896	
Dibromomethane	ND	0.90	0.896		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.0	0.896	
1,2-Dichlorobenzene	ND	0.90	0.896		Trichloroethene	ND	1.8	0.896	
1,3-Dichlorobenzene	ND	0.90	0.896		Trichlorofluoromethane	ND	9.0	0.896	
1,4-Dichlorobenzene	ND	0.90	0.896		1,2,3-Trichloropropane	ND	1.8	0.896	
Dichlorodifluoromethane	ND	1.8	0.896		1,2,4-Trimethylbenzene	ND	1.8	0.896	
1,1-Dichloroethane	ND	0.90	0.896		1,3,5-Trimethylbenzene	ND	1.8	0.896	
1,2-Dichloroethane	ND	0.90	0.896		Vinyl Acetate	ND	9.0	0.896	
1,1-Dichloroethene	ND	0.90	0.896		Vinyl Chloride	ND	0.90	0.896	
c-1,2-Dichloroethene	ND	0.90	0.896		p/m-Xylene	ND	1.8	0.896	
t-1,2-Dichloroethene	ND	0.90	0.896		o-Xylene	ND	0.90	0.896	
1,2-Dichloropropane	ND	0.90	0.896		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.896	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	127	71-137			1,2-Dichloroethane-d4	142	58-160		
1,4-Bromofluorobenzene	89	66-126			Toluene-d8	103	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 8 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-10'	**08-10-2805-17-C**	**10/31/08 09:43**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 17:27**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.838		1,3-Dichloropropane	ND	0.84	0.838	
Benzene	ND	0.84	0.838		2,2-Dichloropropane	ND	4.2	0.838	
Bromobenzene	ND	0.84	0.838		1,1-Dichloropropene	ND	1.7	0.838	
Bromochloromethane	ND	1.7	0.838		c-1,3-Dichloropropene	ND	0.84	0.838	
Bromodichloromethane	ND	0.84	0.838		t-1,3-Dichloropropene	ND	1.7	0.838	
Bromoform	ND	4.2	0.838		Ethylbenzene	ND	0.84	0.838	
Bromomethane	ND	17	0.838		2-Hexanone	ND	17	0.838	
2-Butanone	ND	17	0.838		Isopropylbenzene	ND	0.84	0.838	
n-Butylbenzene	ND	0.84	0.838		p-Isopropyltoluene	ND	0.84	0.838	
sec-Butylbenzene	ND	0.84	0.838		Methylene Chloride	ND	8.4	0.838	
tert-Butylbenzene	ND	0.84	0.838		4-Methyl-2-Pentanone	ND	17	0.838	
Carbon Disulfide	ND	8.4	0.838		Naphthalene	ND	8.4	0.838	
Carbon Tetrachloride	ND	0.84	0.838		n-Propylbenzene	ND	1.7	0.838	
Chlorobenzene	ND	0.84	0.838		Styrene	ND	0.84	0.838	
Chloroethane	ND	1.7	0.838		1,1,1,2-Tetrachloroethane	ND	0.84	0.838	
Chloroform	ND	0.84	0.838		1,1,2,2-Tetrachloroethane	ND	1.7	0.838	
Chloromethane	ND	17	0.838		Tetrachloroethene	ND	0.84	0.838	
2-Chlorotoluene	ND	0.84	0.838		Toluene	ND	0.84	0.838	
4-Chlorotoluene	ND	0.84	0.838		1,2,3-Trichlorobenzene	ND	1.7	0.838	
Dibromochloromethane	ND	1.7	0.838		1,2,4-Trichlorobenzene	ND	1.7	0.838	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.838		1,1,1-Trichloroethane	ND	0.84	0.838	
1,2-Dibromoethane	ND	0.84	0.838		1,1,2-Trichloroethane	ND	0.84	0.838	
Dibromomethane	ND	0.84	0.838		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	0.838	
1,2-Dichlorobenzene	ND	0.84	0.838		Trichloroethene	ND	1.7	0.838	
1,3-Dichlorobenzene	ND	0.84	0.838		Trichlorofluoromethane	ND	8.4	0.838	
1,4-Dichlorobenzene	ND	0.84	0.838		1,2,3-Trichloropropane	ND	1.7	0.838	
Dichlorodifluoromethane	ND	1.7	0.838		1,2,4-Trimethylbenzene	ND	1.7	0.838	
1,1-Dichloroethane	ND	0.84	0.838		1,3,5-Trimethylbenzene	ND	1.7	0.838	
1,2-Dichloroethane	ND	0.84	0.838		Vinyl Acetate	ND	8.4	0.838	
1,1-Dichloroethene	ND	0.84	0.838		Vinyl Chloride	ND	0.84	0.838	
c-1,2-Dichloroethene	ND	0.84	0.838		p/m-Xylene	ND	1.7	0.838	
t-1,2-Dichloroethene	ND	0.84	0.838		o-Xylene	ND	0.84	0.838	
1,2-Dichloropropane	ND	0.84	0.838		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.838	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	128	71-137		1,2-Dichloroethane-d4	140	58-160	
1,4-Bromofluorobenzene	89	66-126		Toluene-d8	103	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-5'	**08-10-2805-20-C**	**10/31/08 10:00**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 17:53**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.846		1,3-Dichloropropane	ND	0.85	0.846	
Benzene	ND	0.85	0.846		2,2-Dichloropropane	ND	4.2	0.846	
Bromobenzene	ND	0.85	0.846		1,1-Dichloropropene	ND	1.7	0.846	
Bromochloromethane	ND	1.7	0.846		c-1,3-Dichloropropene	ND	0.85	0.846	
Bromodichloromethane	ND	0.85	0.846		t-1,3-Dichloropropene	ND	1.7	0.846	
Bromoform	ND	4.2	0.846		Ethylbenzene	ND	0.85	0.846	
Bromomethane	ND	17	0.846		2-Hexanone	ND	17	0.846	
2-Butanone	ND	17	0.846		Isopropylbenzene	ND	0.85	0.846	
n-Butylbenzene	ND	0.85	0.846		p-Isopropyltoluene	ND	0.85	0.846	
sec-Butylbenzene	ND	0.85	0.846		Methylene Chloride	ND	8.5	0.846	
tert-Butylbenzene	ND	0.85	0.846		4-Methyl-2-Pentanone	ND	17	0.846	
Carbon Disulfide	ND	8.5	0.846		Naphthalene	ND	8.5	0.846	
Carbon Tetrachloride	ND	0.85	0.846		n-Propylbenzene	ND	1.7	0.846	
Chlorobenzene	ND	0.85	0.846		Styrene	ND	0.85	0.846	
Chloroethane	ND	1.7	0.846		1,1,1,2-Tetrachloroethane	ND	0.85	0.846	
Chloroform	ND	0.85	0.846		1,1,2,2-Tetrachloroethane	ND	1.7	0.846	
Chloromethane	ND	17	0.846		Tetrachloroethene	ND	0.85	0.846	
2-Chlorotoluene	ND	0.85	0.846		Toluene	ND	0.85	0.846	
4-Chlorotoluene	ND	0.85	0.846		1,2,3-Trichlorobenzene	ND	1.7	0.846	
Dibromochloromethane	ND	1.7	0.846		1,2,4-Trichlorobenzene	ND	1.7	0.846	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.846		1,1,1-Trichloroethane	ND	0.85	0.846	
1,2-Dibromoethane	ND	0.85	0.846		1,1,2-Trichloroethane	ND	0.85	0.846	
Dibromomethane	ND	0.85	0.846		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.5	0.846	
1,2-Dichlorobenzene	ND	0.85	0.846		Trichloroethene	ND	1.7	0.846	
1,3-Dichlorobenzene	ND	0.85	0.846		Trichlorofluoromethane	ND	8.5	0.846	
1,4-Dichlorobenzene	ND	0.85	0.846		1,2,3-Trichloropropane	ND	1.7	0.846	
Dichlorodifluoromethane	ND	1.7	0.846		1,2,4-Trimethylbenzene	ND	1.7	0.846	
1,1-Dichloroethane	ND	0.85	0.846		1,3,5-Trimethylbenzene	ND	1.7	0.846	
1,2-Dichloroethane	ND	0.85	0.846		Vinyl Acetate	ND	8.5	0.846	
1,1-Dichloroethene	ND	0.85	0.846		Vinyl Chloride	ND	0.85	0.846	
c-1,2-Dichloroethene	ND	0.85	0.846		p/m-Xylene	ND	1.7	0.846	
t-1,2-Dichloroethene	ND	0.85	0.846		o-Xylene	ND	0.85	0.846	
1,2-Dichloropropane	ND	0.85	0.846		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.846	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	126	71-137			1,2-Dichloroethane-d4	142	58-160		
1,4-Bromofluorobenzene	88	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-10'	**08-10-2805-21-E**	**10/31/08 10:04**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 22:15**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	4400	88.2		1,3-Dichloropropane	ND	88	88.2	
Benzene	110	88	88.2		2,2-Dichloropropane	ND	440	88.2	
Bromobenzene	ND	88	88.2		1,1-Dichloropropene	ND	180	88.2	
Bromochloromethane	ND	180	88.2		c-1,3-Dichloropropene	ND	88	88.2	
Bromodichloromethane	ND	88	88.2		t-1,3-Dichloropropene	ND	180	88.2	
Bromoform	ND	440	88.2		Ethylbenzene	5900	88	88.2	
Bromomethane	ND	1800	88.2		2-Hexanone	ND	1800	88.2	
2-Butanone	ND	1800	88.2		Isopropylbenzene	3500	88	88.2	
n-Butylbenzene	4300	88	88.2		p-Isopropyltoluene	ND	88	88.2	
sec-Butylbenzene	4200	88	88.2		Methylene Chloride	ND	880	88.2	
tert-Butylbenzene	ND	88	88.2		4-Methyl-2-Pentanone	ND	1800	88.2	
Carbon Disulfide	ND	880	88.2		Naphthalene	15000	880	88.2	
Carbon Tetrachloride	ND	88	88.2		n-Propylbenzene	5700	180	88.2	
Chlorobenzene	ND	88	88.2		Styrene	ND	88	88.2	
Chloroethane	ND	180	88.2		1,1,1,2-Tetrachloroethane	ND	88	88.2	
Chloroform	ND	88	88.2		1,1,2,2-Tetrachloroethane	ND	180	88.2	
Chloromethane	ND	1800	88.2		Tetrachloroethene	ND	88	88.2	
2-Chlorotoluene	ND	88	88.2		Toluene	ND	88	88.2	
4-Chlorotoluene	ND	88	88.2		1,2,3-Trichlorobenzene	ND	180	88.2	
Dibromochloromethane	ND	180	88.2		1,2,4-Trichlorobenzene	ND	180	88.2	
1,2-Dibromo-3-Chloropropane	ND	440	88.2		1,1,1-Trichloroethane	ND	88	88.2	
1,2-Dibromoethane	ND	88	88.2		1,1,2-Trichloroethane	ND	88	88.2	
Dibromomethane	ND	88	88.2		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	880	88.2	
1,2-Dichlorobenzene	ND	88	88.2		Trichloroethene	ND	180	88.2	
1,3-Dichlorobenzene	ND	88	88.2		Trichlorofluoromethane	ND	880	88.2	
1,4-Dichlorobenzene	ND	88	88.2		1,2,3-Trichloropropane	ND	180	88.2	
Dichlorodifluoromethane	ND	180	88.2		1,2,4-Trimethylbenzene	ND	180	88.2	
1,1-Dichloroethane	ND	88	88.2		1,3,5-Trimethylbenzene	ND	180	88.2	
1,2-Dichloroethane	ND	88	88.2		Vinyl Acetate	ND	880	88.2	
1,1-Dichloroethene	ND	88	88.2		Vinyl Chloride	ND	88	88.2	
c-1,2-Dichloroethene	ND	88	88.2		p/m-Xylene	ND	180	88.2	
t-1,2-Dichloroethene	ND	88	88.2		o-Xylene	140	88	88.2	
1,2-Dichloropropane	ND	88	88.2		Methyl-t-Butyl Ether (MTBE)	ND	180	88.2	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	71-137		1,2-Dichloroethane-d4	124	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	120	87-111	2

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-5'	**08-10-2805-25-C**	**10/31/08 11:08**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 18:19**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	43	0.865		1,3-Dichloropropane	ND	0.86	0.865	
Benzene	ND	0.86	0.865		2,2-Dichloropropane	ND	4.3	0.865	
Bromobenzene	ND	0.86	0.865		1,1-Dichloropropene	ND	1.7	0.865	
Bromochloromethane	ND	1.7	0.865		c-1,3-Dichloropropene	ND	0.86	0.865	
Bromodichloromethane	ND	0.86	0.865		t-1,3-Dichloropropene	ND	1.7	0.865	
Bromoform	ND	4.3	0.865		Ethylbenzene	ND	0.86	0.865	
Bromomethane	ND	17	0.865		2-Hexanone	ND	17	0.865	
2-Butanone	ND	17	0.865		Isopropylbenzene	ND	0.86	0.865	
n-Butylbenzene	ND	0.86	0.865		p-Isopropyltoluene	ND	0.86	0.865	
sec-Butylbenzene	ND	0.86	0.865		Methylene Chloride	ND	8.6	0.865	
tert-Butylbenzene	ND	0.86	0.865		4-Methyl-2-Pentanone	ND	17	0.865	
Carbon Disulfide	ND	8.6	0.865		Naphthalene	ND	8.6	0.865	
Carbon Tetrachloride	ND	0.86	0.865		n-Propylbenzene	ND	1.7	0.865	
Chlorobenzene	ND	0.86	0.865		Styrene	ND	0.86	0.865	
Chloroethane	ND	1.7	0.865		1,1,1,2-Tetrachloroethane	ND	0.86	0.865	
Chloroform	ND	0.86	0.865		1,1,2,2-Tetrachloroethane	ND	1.7	0.865	
Chloromethane	ND	17	0.865		Tetrachloroethene	ND	0.86	0.865	
2-Chlorotoluene	ND	0.86	0.865		Toluene	ND	0.86	0.865	
4-Chlorotoluene	ND	0.86	0.865		1,2,3-Trichlorobenzene	ND	1.7	0.865	
Dibromochloromethane	ND	1.7	0.865		1,2,4-Trichlorobenzene	ND	1.7	0.865	
1,2-Dibromo-3-Chloropropane	ND	4.3	0.865		1,1,1-Trichloroethane	ND	0.86	0.865	
1,2-Dibromoethane	ND	0.86	0.865		1,1,2-Trichloroethane	ND	0.86	0.865	
Dibromomethane	ND	0.86	0.865		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.6	0.865	
1,2-Dichlorobenzene	ND	0.86	0.865		Trichloroethene	ND	1.7	0.865	
1,3-Dichlorobenzene	ND	0.86	0.865		Trichlorofluoromethane	ND	8.6	0.865	
1,4-Dichlorobenzene	ND	0.86	0.865		1,2,3-Trichloropropane	ND	1.7	0.865	
Dichlorodifluoromethane	ND	1.7	0.865		1,2,4-Trimethylbenzene	ND	1.7	0.865	
1,1-Dichloroethane	ND	0.86	0.865		1,3,5-Trimethylbenzene	ND	1.7	0.865	
1,2-Dichloroethane	ND	0.86	0.865		Vinyl Acetate	ND	8.6	0.865	
1,1-Dichloroethene	ND	0.86	0.865		Vinyl Chloride	ND	0.86	0.865	
c-1,2-Dichloroethene	ND	0.86	0.865		p/m-Xylene	ND	1.7	0.865	
t-1,2-Dichloroethene	ND	0.86	0.865		o-Xylene	ND	0.86	0.865	
1,2-Dichloropropane	ND	0.86	0.865		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.865	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	126	71-137			1,2-Dichloroethane-d4	141	58-160		
1,4-Bromofluorobenzene	87	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-10'	**08-10-2805-26-C**	**10/31/08 11:12**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 18:45**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.84		1,3-Dichloropropane	ND	0.84	0.84	
Benzene	ND	0.84	0.84		2,2-Dichloropropane	ND	4.2	0.84	
Bromobenzene	ND	0.84	0.84		1,1-Dichloropropene	ND	1.7	0.84	
Bromochloromethane	ND	1.7	0.84		c-1,3-Dichloropropene	ND	0.84	0.84	
Bromodichloromethane	ND	0.84	0.84		t-1,3-Dichloropropene	ND	1.7	0.84	
Bromoform	ND	4.2	0.84		Ethylbenzene	ND	0.84	0.84	
Bromomethane	ND	17	0.84		2-Hexanone	ND	17	0.84	
2-Butanone	ND	17	0.84		Isopropylbenzene	ND	0.84	0.84	
n-Butylbenzene	ND	0.84	0.84		p-Isopropyltoluene	ND	0.84	0.84	
sec-Butylbenzene	ND	0.84	0.84		Methylene Chloride	ND	8.4	0.84	
tert-Butylbenzene	ND	0.84	0.84		4-Methyl-2-Pentanone	ND	17	0.84	
Carbon Disulfide	ND	8.4	0.84		Naphthalene	ND	8.4	0.84	
Carbon Tetrachloride	ND	0.84	0.84		n-Propylbenzene	ND	1.7	0.84	
Chlorobenzene	ND	0.84	0.84		Styrene	ND	0.84	0.84	
Chloroethane	ND	1.7	0.84		1,1,1,2-Tetrachloroethane	ND	0.84	0.84	
Chloroform	ND	0.84	0.84		1,1,2,2-Tetrachloroethane	ND	1.7	0.84	
Chloromethane	ND	17	0.84		Tetrachloroethene	ND	0.84	0.84	
2-Chlorotoluene	ND	0.84	0.84		Toluene	ND	0.84	0.84	
4-Chlorotoluene	ND	0.84	0.84		1,2,3-Trichlorobenzene	ND	1.7	0.84	
Dibromochloromethane	ND	1.7	0.84		1,2,4-Trichlorobenzene	ND	1.7	0.84	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.84		1,1,1-Trichloroethane	ND	0.84	0.84	
1,2-Dibromoethane	ND	0.84	0.84		1,1,2-Trichloroethane	ND	0.84	0.84	
Dibromomethane	ND	0.84	0.84		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	0.84	
1,2-Dichlorobenzene	ND	0.84	0.84		Trichloroethene	ND	1.7	0.84	
1,3-Dichlorobenzene	ND	0.84	0.84		Trichlorofluoromethane	ND	8.4	0.84	
1,4-Dichlorobenzene	ND	0.84	0.84		1,2,3-Trichloropropane	ND	1.7	0.84	
Dichlorodifluoromethane	ND	1.7	0.84		1,2,4-Trimethylbenzene	ND	1.7	0.84	
1,1-Dichloroethane	ND	0.84	0.84		1,3,5-Trimethylbenzene	ND	1.7	0.84	
1,2-Dichloroethane	ND	0.84	0.84		Vinyl Acetate	ND	8.4	0.84	
1,1-Dichloroethene	ND	0.84	0.84		Vinyl Chloride	ND	0.84	0.84	
c-1,2-Dichloroethene	ND	0.84	0.84		p/m-Xylene	ND	1.7	0.84	
t-1,2-Dichloroethene	ND	0.84	0.84		o-Xylene	ND	0.84	0.84	
1,2-Dichloropropane	ND	0.84	0.84		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.84	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	126	71-137		1,2-Dichloroethane-d4	138	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS24-5'	**08-10-2805-30-C**	**10/31/08 11:43**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 19:12**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.836		1,3-Dichloropropane	ND	0.84	0.836	
Benzene	ND	0.84	0.836		2,2-Dichloropropane	ND	4.2	0.836	
Bromobenzene	ND	0.84	0.836		1,1-Dichloropropene	ND	1.7	0.836	
Bromochloromethane	ND	1.7	0.836		c-1,3-Dichloropropene	ND	0.84	0.836	
Bromodichloromethane	ND	0.84	0.836		t-1,3-Dichloropropene	ND	1.7	0.836	
Bromoform	ND	4.2	0.836		Ethylbenzene	ND	0.84	0.836	
Bromomethane	ND	17	0.836		2-Hexanone	ND	17	0.836	
2-Butanone	ND	17	0.836		Isopropylbenzene	ND	0.84	0.836	
n-Butylbenzene	ND	0.84	0.836		p-Isopropyltoluene	ND	0.84	0.836	
sec-Butylbenzene	ND	0.84	0.836		Methylene Chloride	ND	8.4	0.836	
tert-Butylbenzene	ND	0.84	0.836		4-Methyl-2-Pentanone	ND	17	0.836	
Carbon Disulfide	ND	8.4	0.836		Naphthalene	ND	8.4	0.836	
Carbon Tetrachloride	ND	0.84	0.836		n-Propylbenzene	ND	1.7	0.836	
Chlorobenzene	ND	0.84	0.836		Styrene	ND	0.84	0.836	
Chloroethane	ND	1.7	0.836		1,1,1,2-Tetrachloroethane	ND	0.84	0.836	
Chloroform	ND	0.84	0.836		1,1,2,2-Tetrachloroethane	ND	1.7	0.836	
Chloromethane	ND	17	0.836		Tetrachloroethene	ND	0.84	0.836	
2-Chlorotoluene	ND	0.84	0.836		Toluene	ND	0.84	0.836	
4-Chlorotoluene	ND	0.84	0.836		1,2,3-Trichlorobenzene	ND	1.7	0.836	
Dibromochloromethane	ND	1.7	0.836		1,2,4-Trichlorobenzene	ND	1.7	0.836	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.836		1,1,1-Trichloroethane	ND	0.84	0.836	
1,2-Dibromoethane	ND	0.84	0.836		1,1,2-Trichloroethane	ND	0.84	0.836	
Dibromomethane	ND	0.84	0.836		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	0.836	
1,2-Dichlorobenzene	ND	0.84	0.836		Trichloroethene	ND	1.7	0.836	
1,3-Dichlorobenzene	ND	0.84	0.836		Trichlorofluoromethane	ND	8.4	0.836	
1,4-Dichlorobenzene	ND	0.84	0.836		1,2,3-Trichloropropane	ND	1.7	0.836	
Dichlorodifluoromethane	ND	1.7	0.836		1,2,4-Trimethylbenzene	ND	1.7	0.836	
1,1-Dichloroethane	ND	0.84	0.836		1,3,5-Trimethylbenzene	ND	1.7	0.836	
1,2-Dichloroethane	ND	0.84	0.836		Vinyl Acetate	ND	8.4	0.836	
1,1-Dichloroethene	ND	0.84	0.836		Vinyl Chloride	ND	0.84	0.836	
c-1,2-Dichloroethene	ND	0.84	0.836		p/m-Xylene	ND	1.7	0.836	
t-1,2-Dichloroethene	ND	0.84	0.836		o-Xylene	ND	0.84	0.836	
1,2-Dichloropropane	ND	0.84	0.836		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.836	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	129	71-137			1,2-Dichloroethane-d4	145	58-160		
1,4-Bromofluorobenzene	87	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS24-10'	**08-10-2805-31-C**	**10/31/08 11:46**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 19:38**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.825		1,3-Dichloropropane	ND	0.82	0.825	
Benzene	ND	0.82	0.825		2,2-Dichloropropane	ND	4.1	0.825	
Bromobenzene	ND	0.82	0.825		1,1-Dichloropropene	ND	1.6	0.825	
Bromochloromethane	ND	1.6	0.825		c-1,3-Dichloropropene	ND	0.82	0.825	
Bromodichloromethane	ND	0.82	0.825		t-1,3-Dichloropropene	ND	1.6	0.825	
Bromoform	ND	4.1	0.825		Ethylbenzene	ND	0.82	0.825	
Bromomethane	ND	16	0.825		2-Hexanone	ND	16	0.825	
2-Butanone	ND	16	0.825		Isopropylbenzene	ND	0.82	0.825	
n-Butylbenzene	ND	0.82	0.825		p-Isopropyltoluene	ND	0.82	0.825	
sec-Butylbenzene	ND	0.82	0.825		Methylene Chloride	ND	8.2	0.825	
tert-Butylbenzene	ND	0.82	0.825		4-Methyl-2-Pentanone	ND	16	0.825	
Carbon Disulfide	ND	8.2	0.825		Naphthalene	ND	8.2	0.825	
Carbon Tetrachloride	ND	0.82	0.825		n-Propylbenzene	ND	1.6	0.825	
Chlorobenzene	ND	0.82	0.825		Styrene	ND	0.82	0.825	
Chloroethane	ND	1.6	0.825		1,1,1,2-Tetrachloroethane	ND	0.82	0.825	
Chloroform	ND	0.82	0.825		1,1,2,2-Tetrachloroethane	ND	1.6	0.825	
Chloromethane	ND	16	0.825		Tetrachloroethene	ND	0.82	0.825	
2-Chlorotoluene	ND	0.82	0.825		Toluene	ND	0.82	0.825	
4-Chlorotoluene	ND	0.82	0.825		1,2,3-Trichlorobenzene	ND	1.6	0.825	
Dibromochloromethane	ND	1.6	0.825		1,2,4-Trichlorobenzene	ND	1.6	0.825	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.825		1,1,1-Trichloroethane	ND	0.82	0.825	
1,2-Dibromoethane	ND	0.82	0.825		1,1,2-Trichloroethane	ND	0.82	0.825	
Dibromomethane	ND	0.82	0.825		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.825	
1,2-Dichlorobenzene	ND	0.82	0.825		Trichloroethene	ND	1.6	0.825	
1,3-Dichlorobenzene	ND	0.82	0.825		Trichlorofluoromethane	ND	8.2	0.825	
1,4-Dichlorobenzene	ND	0.82	0.825		1,2,3-Trichloropropane	ND	1.6	0.825	
Dichlorodifluoromethane	ND	1.6	0.825		1,2,4-Trimethylbenzene	ND	1.6	0.825	
1,1-Dichloroethane	ND	0.82	0.825		1,3,5-Trimethylbenzene	ND	1.6	0.825	
1,2-Dichloroethane	ND	0.82	0.825		Vinyl Acetate	ND	8.2	0.825	
1,1-Dichloroethene	ND	0.82	0.825		Vinyl Chloride	ND	0.82	0.825	
c-1,2-Dichloroethene	ND	0.82	0.825		p/m-Xylene	ND	1.6	0.825	
t-1,2-Dichloroethene	ND	0.82	0.825		o-Xylene	ND	0.82	0.825	
1,2-Dichloropropane	ND	0.82	0.825		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.825	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	128	71-137		1,2-Dichloroethane-d4	143	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	103	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-5'	**08-10-2805-34-C**	**10/31/08 11:58**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 20:04**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.825		1,3-Dichloropropane	ND	0.82	0.825	
Benzene	ND	0.82	0.825		2,2-Dichloropropane	ND	4.1	0.825	
Bromobenzene	ND	0.82	0.825		1,1-Dichloropropene	ND	1.6	0.825	
Bromochloromethane	ND	1.6	0.825		c-1,3-Dichloropropene	ND	0.82	0.825	
Bromodichloromethane	ND	0.82	0.825		t-1,3-Dichloropropene	ND	1.6	0.825	
Bromoform	ND	4.1	0.825		Ethylbenzene	ND	0.82	0.825	
Bromomethane	ND	16	0.825		2-Hexanone	ND	16	0.825	
2-Butanone	ND	16	0.825		Isopropylbenzene	ND	0.82	0.825	
n-Butylbenzene	ND	0.82	0.825		p-Isopropyltoluene	ND	0.82	0.825	
sec-Butylbenzene	ND	0.82	0.825		Methylene Chloride	ND	8.2	0.825	
tert-Butylbenzene	ND	0.82	0.825		4-Methyl-2-Pentanone	ND	16	0.825	
Carbon Disulfide	ND	8.2	0.825		Naphthalene	ND	8.2	0.825	
Carbon Tetrachloride	ND	0.82	0.825		n-Propylbenzene	ND	1.6	0.825	
Chlorobenzene	ND	0.82	0.825		Styrene	ND	0.82	0.825	
Chloroethane	ND	1.6	0.825		1,1,1,2-Tetrachloroethane	ND	0.82	0.825	
Chloroform	ND	0.82	0.825		1,1,2,2-Tetrachloroethane	ND	1.6	0.825	
Chloromethane	ND	16	0.825		Tetrachloroethene	ND	0.82	0.825	
2-Chlorotoluene	ND	0.82	0.825		Toluene	ND	0.82	0.825	
4-Chlorotoluene	ND	0.82	0.825		1,2,3-Trichlorobenzene	ND	1.6	0.825	
Dibromochloromethane	ND	1.6	0.825		1,2,4-Trichlorobenzene	ND	1.6	0.825	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.825		1,1,1-Trichloroethane	ND	0.82	0.825	
1,2-Dibromoethane	ND	0.82	0.825		1,1,2-Trichloroethane	ND	0.82	0.825	
Dibromomethane	ND	0.82	0.825		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.825	
1,2-Dichlorobenzene	ND	0.82	0.825		Trichloroethene	ND	1.6	0.825	
1,3-Dichlorobenzene	ND	0.82	0.825		Trichlorofluoromethane	ND	8.2	0.825	
1,4-Dichlorobenzene	ND	0.82	0.825		1,2,3-Trichloropropane	ND	1.6	0.825	
Dichlorodifluoromethane	ND	1.6	0.825		1,2,4-Trimethylbenzene	ND	1.6	0.825	
1,1-Dichloroethane	ND	0.82	0.825		1,3,5-Trimethylbenzene	ND	1.6	0.825	
1,2-Dichloroethane	ND	0.82	0.825		Vinyl Acetate	ND	8.2	0.825	
1,1-Dichloroethene	ND	0.82	0.825		Vinyl Chloride	ND	0.82	0.825	
c-1,2-Dichloroethene	ND	0.82	0.825		p/m-Xylene	ND	1.6	0.825	
t-1,2-Dichloroethene	ND	0.82	0.825		o-Xylene	ND	0.82	0.825	
1,2-Dichloropropane	ND	0.82	0.825		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.825	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	126	71-137		1,2-Dichloroethane-d4	141	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-10'	**08-10-2805-35-C**	**10/31/08 12:04**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 20:30**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	43	0.861		1,3-Dichloropropane	ND	0.86	0.861	
Benzene	ND	0.86	0.861		2,2-Dichloropropane	ND	4.3	0.861	
Bromobenzene	ND	0.86	0.861		1,1-Dichloropropene	ND	1.7	0.861	
Bromochloromethane	ND	1.7	0.861		c-1,3-Dichloropropene	ND	0.86	0.861	
Bromodichloromethane	ND	0.86	0.861		t-1,3-Dichloropropene	ND	1.7	0.861	
Bromoform	ND	4.3	0.861		Ethylbenzene	ND	0.86	0.861	
Bromomethane	ND	17	0.861		2-Hexanone	ND	17	0.861	
2-Butanone	ND	17	0.861		Isopropylbenzene	ND	0.86	0.861	
n-Butylbenzene	ND	0.86	0.861		p-Isopropyltoluene	ND	0.86	0.861	
sec-Butylbenzene	ND	0.86	0.861		Methylene Chloride	ND	8.6	0.861	
tert-Butylbenzene	ND	0.86	0.861		4-Methyl-2-Pentanone	ND	17	0.861	
Carbon Disulfide	ND	8.6	0.861		Naphthalene	ND	8.6	0.861	
Carbon Tetrachloride	ND	0.86	0.861		n-Propylbenzene	ND	1.7	0.861	
Chlorobenzene	ND	0.86	0.861		Styrene	ND	0.86	0.861	
Chloroethane	ND	1.7	0.861		1,1,1,2-Tetrachloroethane	ND	0.86	0.861	
Chloroform	ND	0.86	0.861		1,1,2,2-Tetrachloroethane	ND	1.7	0.861	
Chloromethane	ND	17	0.861		Tetrachloroethene	ND	0.86	0.861	
2-Chlorotoluene	ND	0.86	0.861		Toluene	1.3	0.86	0.861	
4-Chlorotoluene	ND	0.86	0.861		1,2,3-Trichlorobenzene	ND	1.7	0.861	
Dibromochloromethane	ND	1.7	0.861		1,2,4-Trichlorobenzene	ND	1.7	0.861	
1,2-Dibromo-3-Chloropropane	ND	4.3	0.861		1,1,1-Trichloroethane	ND	0.86	0.861	
1,2-Dibromoethane	ND	0.86	0.861		1,1,2-Trichloroethane	ND	0.86	0.861	
Dibromomethane	ND	0.86	0.861		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.6	0.861	
1,2-Dichlorobenzene	ND	0.86	0.861		Trichloroethene	ND	1.7	0.861	
1,3-Dichlorobenzene	ND	0.86	0.861		Trichlorofluoromethane	ND	8.6	0.861	
1,4-Dichlorobenzene	ND	0.86	0.861		1,2,3-Trichloropropane	ND	1.7	0.861	
Dichlorodifluoromethane	ND	1.7	0.861		1,2,4-Trimethylbenzene	ND	1.7	0.861	
1,1-Dichloroethane	ND	0.86	0.861		1,3,5-Trimethylbenzene	ND	1.7	0.861	
1,2-Dichloroethane	ND	0.86	0.861		Vinyl Acetate	ND	8.6	0.861	
1,1-Dichloroethene	ND	0.86	0.861		Vinyl Chloride	ND	0.86	0.861	
c-1,2-Dichloroethene	ND	0.86	0.861		p/m-Xylene	ND	1.7	0.861	
t-1,2-Dichloroethene	ND	0.86	0.861		o-Xylene	ND	0.86	0.861	
1,2-Dichloropropane	ND	0.86	0.861		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.861	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	127	71-137		1,2-Dichloroethane-d4	138	58-160	
1,4-Bromofluorobenzene	86	66-126		Toluene-d8	103	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-16,963**	**N/A**	**Solid**	**GC/MS XX**	**11/03/08**	**11/03/08 13:57**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	1.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	2.0	1	
Bromochloromethane	ND	2.0	1		c-1,3-Dichloropropene	ND	1.0	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	20	1		2-Hexanone	ND	20	1	
2-Butanone	ND	20	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	20	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	2.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chloromethane	ND	20	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Dibromochloromethane	ND	2.0	1		1,2,4-Trichlorobenzene	ND	2.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
Dichlorodifluoromethane	ND	2.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	2.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	119	71-137		1,2-Dichloroethane-d4	124	58-160	
1,4-Bromofluorobenzene	86	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-16,968**	**N/A**	**Solid**	**GC/MS XX**	**11/03/08**	**11/03/08 13:30**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	5000	100		1,3-Dichloropropane	ND	100	100	
Benzene	ND	100	100		2,2-Dichloropropane	ND	500	100	
Bromobenzene	ND	100	100		1,1-Dichloropropene	ND	200	100	
Bromochloromethane	ND	200	100		c-1,3-Dichloropropene	ND	100	100	
Bromodichloromethane	ND	100	100		t-1,3-Dichloropropene	ND	200	100	
Bromoform	ND	500	100		Ethylbenzene	ND	100	100	
Bromomethane	ND	2000	100		2-Hexanone	ND	2000	100	
2-Butanone	ND	2000	100		Isopropylbenzene	ND	100	100	
n-Butylbenzene	ND	100	100		p-Isopropyltoluene	ND	100	100	
sec-Butylbenzene	ND	100	100		Methylene Chloride	ND	1000	100	
tert-Butylbenzene	ND	100	100		4-Methyl-2-Pentanone	ND	2000	100	
Carbon Disulfide	ND	1000	100		Naphthalene	ND	1000	100	
Carbon Tetrachloride	ND	100	100		n-Propylbenzene	ND	200	100	
Chlorobenzene	ND	100	100		Styrene	ND	100	100	
Chloroethane	ND	200	100		1,1,1,2-Tetrachloroethane	ND	100	100	
Chloroform	ND	100	100		1,1,2,2-Tetrachloroethane	ND	200	100	
Chloromethane	ND	2000	100		Tetrachloroethene	ND	100	100	
2-Chlorotoluene	ND	100	100		Toluene	ND	100	100	
4-Chlorotoluene	ND	100	100		1,2,3-Trichlorobenzene	ND	200	100	
Dibromochloromethane	ND	200	100		1,2,4-Trichlorobenzene	ND	200	100	
1,2-Dibromo-3-Chloropropane	ND	500	100		1,1,1-Trichloroethane	ND	100	100	
1,2-Dibromoethane	ND	100	100		1,1,2-Trichloroethane	ND	100	100	
Dibromomethane	ND	100	100		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1000	100	
1,2-Dichlorobenzene	ND	100	100		Trichloroethene	ND	200	100	
1,3-Dichlorobenzene	ND	100	100		Trichlorofluoromethane	ND	1000	100	
1,4-Dichlorobenzene	ND	100	100		1,2,3-Trichloropropane	ND	200	100	
Dichlorodifluoromethane	ND	200	100		1,2,4-Trimethylbenzene	ND	200	100	
1,1-Dichloroethane	ND	100	100		1,3,5-Trimethylbenzene	ND	200	100	
1,2-Dichloroethane	ND	100	100		Vinyl Acetate	ND	1000	100	
1,1-Dichloroethene	ND	100	100		Vinyl Chloride	ND	100	100	
c-1,2-Dichloroethene	ND	100	100		p/m-Xylene	ND	200	100	
t-1,2-Dichloroethene	ND	100	100		o-Xylene	ND	100	100	
1,2-Dichloropropane	ND	100	100		Methyl-t-Butyl Ether (MTBE)	ND	200	100	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	118	71-137		1,2-Dichloroethane-d4	122	58-160	
1,4-Bromofluorobenzene	86	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3050B
Method: EPA 6010B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS30-0.5'	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08**	**081103S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	72	41	75-125	17	0-20	3
Cadmium	100	100	75-125	0	0-20	
Lead	4X	4X	75-125	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3050B
Method: EPA 6010B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HA5-0.5'	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08**	**081103S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	105	105	75-125	0	0-20	
Cadmium	96	98	75-125	2	0-20	
Lead	4X	4X	75-125	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS30-5'	**Solid**	**GC 15**	**11/03/08**	**11/03/08**	**081103S06**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	94	96	64-130	2	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS24-10'	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08**	**081103S13**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acenaphthene	92	92	40-106	0	0-20	
Pyrene	93	91	6-156	3	0-46	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3545
Method: EPA 8082

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS25-5'	**Solid**	**GC 31**	**11/03/08**	**11/06/08**	**081103S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	90	106	50-135	16	0-20	
Aroclor-1260	130	120	50-135	8	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3545
Method: EPA 8082

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2828-34	**Solid**	**GC 16**	**11/03/08**	**11/05/08**	**081103S12**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2206	2200	50-135	0	0-20	3
Aroclor-1260	1130	1201	50-135	6	0-25	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 5030B
Method: EPA 8260B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2390-2	**Aqueous**	**GC/MS EE**	**11/05/08**	**11/05/08**	**081105S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	107	88-118	0	0-7	
Carbon Tetrachloride	107	108	67-145	1	0-11	
Chlorobenzene	103	103	88-118	0	0-7	
1,2-Dibromoethane	105	107	70-130	2	0-30	
1,2-Dichlorobenzene	99	102	86-116	3	0-8	
1,1-Dichloroethene	105	105	70-130	0	0-25	
Ethylbenzene	111	112	70-130	1	0-30	
Toluene	107	109	87-123	2	0-8	
Trichloroethene	101	103	79-127	2	0-10	
Vinyl Chloride	118	123	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	106	109	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	111	113	36-168	1	0-45	
Diisopropyl Ether (DIPE)	108	102	81-123	6	0-9	
Ethyl-t-Butyl Ether (ETBE)	109	109	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	114	116	72-126	1	0-12	
Ethanol	102	104	53-149	2	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 5030B
Method: EPA 8260B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2776-6	**Aqueous**	**GC/MS EE**	**11/06/08**	**11/06/08**	**081106S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	103	88-118	2	0-7	
Carbon Tetrachloride	91	92	67-145	2	0-11	
Chlorobenzene	100	104	88-118	4	0-7	
1,2-Dibromoethane	104	109	70-130	4	0-30	
1,2-Dichlorobenzene	103	107	86-116	3	0-8	
1,1-Dichloroethene	84	85	70-130	2	0-25	
Ethylbenzene	109	112	70-130	3	0-30	
Toluene	104	105	87-123	1	0-8	
Trichloroethene	101	104	79-127	3	0-10	
Vinyl Chloride	90	92	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	94	98	71-131	4	0-13	
Tert-Butyl Alcohol (TBA)	99	106	36-168	7	0-45	
Diisopropyl Ether (DIPE)	96	99	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	101	100	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	112	114	72-126	1	0-12	
Ethanol	85	96	53-149	11	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 3050B
Method: EPA 6010B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-11,698	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08**	**081103L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	98	91	80-120	8	0-20	
Cadmium	107	101	80-120	6	0-20	
Lead	108	103	80-120	5	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 3050B
Method: EPA 6010B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-11,699	**Solid**	**ICP 5300**	**11/05/08**	**081103-I-03**	**081103L03**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	25.0	24.2	97	80-120	
Cadmium	25.0	26.8	107	80-120	
Lead	25.0	26.7	107	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-275-2,277	**Solid**	**GC 15**	**11/03/08**	**11/03/08**	**081103B06**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	88	89	75-123	1	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering	Date Received:	N/A
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3510C
	Method:	EPA 8015B (M)

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-807	**Aqueous**	**GC 46**	**11/05/08**	**11/05/08**	**081105B05**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	77	82	75-117	6	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-010-243	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08**	**081103L13**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acenaphthene	97	97	48-108	0	0-11	
Pyrene	89	88	28-106	1	0-16	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 3545
Method: EPA 8082

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-493	**Solid**	**GC 31**	**11/03/08**	**11/06/08**	**081103L04**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	106	110	50-135	4	0-20	
Aroclor-1260	112	116	50-135	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 3545
Method: EPA 8082

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-489	**Solid**	**GC 16**	**11/03/08**	**11/04/08**	**081103L12**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	108	110	50-135	2	0-20	
Aroclor-1260	108	120	50-135	10	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 5030B
Method: EPA 8260B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-27,386	**Aqueous**	**GC/MS EE**	**11/05/08**	**11/05/08**	**081105L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	109	105	84-120	78-126	4	0-8	
Carbon Tetrachloride	109	109	63-147	49-161	0	0-10	
Chlorobenzene	104	103	89-119	84-124	1	0-7	
1,2-Dibromoethane	107	106	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	105	102	89-119	84-124	3	0-9	
1,1-Dichloroethene	106	104	77-125	69-133	2	0-16	
Ethylbenzene	113	113	80-120	73-127	1	0-20	
Toluene	111	109	83-125	76-132	2	0-9	
Trichloroethene	108	106	89-119	84-124	2	0-8	
Vinyl Chloride	120	119	63-135	51-147	1	0-13	
Methyl-t-Butyl Ether (MTBE)	110	110	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	108	108	46-154	28-172	0	0-32	
Diisopropyl Ether (DIPE)	109	110	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	113	114	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	119	117	76-124	68-132	2	0-10	
Ethanol	102	101	60-138	47-151	0	0-32	

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 Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 5030B
Method: EPA 8260B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-27,406	**Aqueous**	**GC/MS EE**	**11/06/08**	**11/06/08**	**081106L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	109	106	84-120	78-126	2	0-8	
Carbon Tetrachloride	108	107	63-147	49-161	0	0-10	
Chlorobenzene	110	108	89-119	84-124	2	0-7	
1,2-Dibromoethane	112	109	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	110	110	89-119	84-124	0	0-9	
1,1-Dichloroethene	99	101	77-125	69-133	2	0-16	
Ethylbenzene	119	117	80-120	73-127	1	0-20	
Toluene	110	109	83-125	76-132	1	0-9	
Trichloroethene	108	108	89-119	84-124	0	0-8	
Vinyl Chloride	107	106	63-135	51-147	1	0-13	
Methyl-t-Butyl Ether (MTBE)	105	104	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	105	103	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	111	101	81-123	74-130	9	0-11	
Ethyl-t-Butyl Ether (ETBE)	103	106	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	114	114	76-124	68-132	1	0-10	
Ethanol	97	98	60-138	47-151	2	0-32	

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 Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 5035
Method: EPA 8260B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-16,963	**Solid**	**GC/MS XX**	**11/03/08**	**11/03/08**	**081103L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	101	99	85-115	80-120	2	0-11	
Carbon Tetrachloride	112	108	68-134	57-145	4	0-14	
Chlorobenzene	102	99	83-119	77-125	2	0-9	
1,2-Dibromoethane	104	103	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	98	98	57-135	44-148	1	0-10	
1,1-Dichloroethene	105	98	72-120	64-128	7	0-10	
Ethylbenzene	106	104	80-120	73-127	2	0-20	
Toluene	102	100	67-127	57-137	2	0-10	
Trichloroethene	102	100	88-112	84-116	2	0-9	
Vinyl Chloride	105	98	57-129	45-141	7	0-16	
Methyl-t-Butyl Ether (MTBE)	110	107	76-124	68-132	3	0-12	
Tert-Butyl Alcohol (TBA)	74	67	31-145	12-164	9	0-23	
Diisopropyl Ether (DIPE)	105	102	74-128	65-137	3	0-10	
Ethyl-t-Butyl Ether (ETBE)	102	100	77-125	69-133	2	0-9	
Tert-Amyl-Methyl Ether (TAME)	104	102	81-123	74-130	2	0-10	
Ethanol	79	67	44-152	26-170	16	0-24	

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 Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 5035
Method: EPA 8260B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-16,968	**Solid**	**GC/MS XX**	**11/03/08**	**11/03/08**	**081103L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	101	99	85-115	80-120	2	0-11	
Carbon Tetrachloride	112	108	68-134	57-145	4	0-14	
Chlorobenzene	102	99	83-119	77-125	2	0-9	
1,2-Dibromoethane	104	103	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	98	98	57-135	44-148	1	0-10	
1,1-Dichloroethene	105	98	72-120	64-128	7	0-10	
Ethylbenzene	106	104	80-120	73-127	2	0-20	
Toluene	102	100	67-127	57-137	2	0-10	
Trichloroethene	102	100	88-112	84-116	2	0-9	
Vinyl Chloride	105	98	57-129	45-141	7	0-16	
Methyl-t-Butyl Ether (MTBE)	110	107	76-124	68-132	3	0-12	
Tert-Butyl Alcohol (TBA)	74	67	31-145	12-164	9	0-23	
Diisopropyl Ether (DIPE)	105	102	74-128	65-137	3	0-10	
Ethyl-t-Butyl Ether (ETBE)	102	100	77-125	69-133	2	0-9	
Tert-Amyl-Methyl Ether (TAME)	104	102	81-123	74-130	2	0-10	
Ethanol	79	67	44-152	26-170	16	0-24	

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 Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-10-2805

Qualifier	Definition
*	See applicable analysis comment.
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 matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
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.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Date 10/31/08

Page 1 of 8

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: (949) 470-1937 E-MAIL: CStolz@pacificedge-eng.com

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: POLA - 7th street GARAGE

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B) *	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) *	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+___	PAH 8270 SIM	Total Arsenic, Lead, Cadmium
1	GS30-0.5'		10/31/08	0827	Soil	1										X							X
2	GS30-5'			0835		4			X		X		X									X	
3	GS30-10'			0840		4			X		X		X										
4	GS30-1'			0830	↓	1										X							X
5	GS30-GW			0850	H_2O	5			X		X												
6	GS31-0.5'			0900	Soil	1										X							X
7	GS31-1'			0902		1										X							X
8	GS31-5'			0908		4			X		X		X									X	
9	GS31-10'			0911		4			X		X		X										
10	GS29-0.5'			0920	↓	1										X							X

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Peggy A. CEL	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Calscience Environmental Laboratories, Inc.

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(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 10/31/08

LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 26691 Plaza, Suite 270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL
SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: PDLA - 7th Street GARAGE
P.O. NO.:
PROJECT CONTACT: Craig Stolz
LAB USE ONLY: 10-2801
SAMPLER(S): (PRINT) Scott Miles
COELT LOG CODE:
COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B) x'	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) x	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+ ___	PAH 8270 SIM	Lead, Arsenic, Cadmium
11	GS29-1'		10/31/08	0922	Soil	1										X							X
12	GS29-5'			0924		4			X		X		X										
13	GS29-10'			0927		4			X		X		X									X	
14	GS28-0.5'			0932		1										X							X
15	GS28-1'			0934		1										X							X
16	GS28-5'			0938		4			X		X		X										
17	GS28-10'			0943		4			X		X		X									X	
18	GS27-0.5'			0955		1										X							X
19	GS27-1'			0957		1			X		'					X							X
20	GS27-5'		↓	1000	↓	4			X		X		X										

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Tracy A - CEL	10/31/08	14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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(714) 895-5494

NorCal Service Center
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Concord, CA 94520-8577
(925) 689-9022

Date 10/31/08

Page 3 of 8

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street GARAGE

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD / EXCEL

SPECIAL INSTRUCTIONS: Strong TPH odor @ GS27-5', GS27-10'

Oil Droplets noted IN H_2O Sample : GS27-GW

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+___	PAH 8270 SIM	Arsenic, Lead, Cadmium
21	GS27-10'		10/31/08	1004	Soil	4			X		X		X									X	
22	GS27-GW			1015	H_2O	5			X		X												
23	GS25-0.5'			1103	Soil	1																	X
24	GS25-1'			1105	↓	1			X														X
25	GS25-5'			1108		4			X		X		X			X						X	
26	GS25-10'			1112	↓	4			X		X		X			X							
27	GS25-GW			1120	H_2O	5			X		X												
28	GS24-0.5'			1137	Soil	1										X							X
29	GS24-1'			1139	↓	1										X							X
30	GS24-5'		↓	1143	↓	4			X		X		X										

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Greg A. - CEL	10/31/08	14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN OF CUSTODY RECORD

Date 10/31/08

Page 4 of 8

LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 26691 PLAZA, Suite 270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street GARAGE
P.O. NO.:
PROJECT CONTACT: Craig Stolz
LAB USE ONLY: 10-2805
SAMPLER(S): (PRINT) Scott Miles
COELT LOG CODE:
COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+___	PAH 8270 SIM	Total Arsenic, Lead, Cadmium
31	GS24-10'		10/31/08	1146	Soil	4			X		X		X									X	
32	GS26-0.5'			1153		1										X							X
33	GS26-1'			1155		1										X							X
34	GS26-5'			1158		4			X		X		X									X	X
35	GS26-10'			1204		4			X		X		X										
36	GS26-GW			1215	H2O	5			X		X												

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Preeya P - CEL	10/31/08	14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN OF CUSTODY RECORD

Date 10/31/08

Page 5 of 8

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 28691 Plaza #270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949 4701937 E-MAIL: cstolz@pacificedgeeng.com

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: POLA - 7th St. Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE

COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) x	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	Lead TOTAL	Cadmium TOTAL	Archive
37	HA1-0.5'		10/31/08	1230	Soil	1																		X
38	HA1-1'			1231		1																		X
39	HA1-2'			1232		1																		X
40	HA2-0.5'			1234		1																		X
41	HA2-1'			1235		1																		X
42	HA2-2'			1236		1																		X
43	HA3-0.5'			1237		1																X	X	
44	HA3-1'			1238		1																X	X	
45	HA3-2'			1239		1																		X
46	HA4-0.5'			1240		1																X	X	

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Gregg A. Cox	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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(925) 689-9022

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: Pola 7th Street Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE: ☐☐☐☐

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (____)	BTEX / MTBE (8260B) or (____)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____	TOTAL Lead	TOTAL Cadmium	Archive
47	HA4-1'		10/31/08	1241	Soil	1																X	X	
48	HA4-2'			1242		1																		X
49	HA5-0.5'			1244		1																X	X	
50	HA5-1'			1245		1																		X
51	HA5-2'			1246		1																		X
52	HA6-0.5'			1247		1										X						X	X	
53	HA6-1'			1248		1										X						X		
54	HA6-2'			1249		1																		X
55	HA7-0.5'			1250		1										X						X	X	
56	HA7-1'		↓	1251	↓	1										X						X		

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Becky A - CEL	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN OF CUSTODY RECORD

Date 10/31/08

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

PH: 949-470-1937 E-MAIL: CStolz@pacific edge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Seth Miles

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (___)	BTEX / MTBE (8260B) or (___)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+___	TOTAL Lead	TOTAL Cadmium	Archive
57	HA7-1.5'		10/31/08	1252	Soil	1																		X
58	HA8-0.5'			1254		1										X						X	X	
59	HA8-1'			1255		1										X						X		
60	HA8-2'			1256		1																		X
61	HA9-0.5'			1257		1																X		
62	HA9-1'			1258		1																X		
63	HA9-2'			1258		1																		X
64	HA10-0.5'			1259		1																X		
65	HA10-1'			1300		1																X		
66	HA10-2'			1301	↓	1																		X

Relinquished by: (Signature) Seth Miles	Received by: (Signature/Affiliation) Tracy L. CEL	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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(925) 689-9022

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street GARAGE

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/Excel

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) *	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	Total Lead	Total Cadmium	Archive
67	HA11-0.5'		10/31/08	1302	Soil	1																X		
68	HA11-1'			1303		1																		X
69	HA11-2'			1304		1																		X
70	HA11-3'			1305		1																X		
71	HA12-0.5'			1307		1																X		
72	HA12-1'			1308		1																		X
73	HA12-2'			1309		1																		X
74	HA12-3'			1310	↓	1																X		

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Tracy A. CEL	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2805

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: PACIFIC EDGE ENGINEERING DATE: 10/31/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.0 °C + 1.8 °C (CF) = 4.8 °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 **Initial:** RS

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** RS
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** RN

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Proper preservation noted on sample label(s)	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☑1AGB ☐1AGBna_2

☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB

☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: RN

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: AD

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: RN

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2805

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: PACIFIC EDGE ENGINEERING DATE: 10/31/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.2 °C + 1.8 °C (CF) = 5.0 °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 **Initial:** PS

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** PS
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** RN

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Proper preservation noted on sample label(s).....	☑	☐	☐
Volatile analysis container(s) free of headspace.....	☑	☐	☐
Tedlar bag(s) free of condensation.....	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☑1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: RN

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: AO

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: RN

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

November 26, 2008

Additional requested analyses are reported as a stand-alone report.

Craig Stolz
Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Subject: **Calscience Work Order No.: 08-10-2683**
Client Reference: POLA-7th Street Garage

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/30/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received: 10/30/08
26691 Plaza, Suite 270	Work Order No: 08-10-2683
Mission Viejo, CA 92691-6307	Preparation: T22.11.5. AII
	Method: EPA 6010B

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-5'	**08-10-2683-8-A**	**10/30/08 09:45**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:30**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	0.185	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-0.5'	**08-10-2683-36-A**	**10/30/08 14:30**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:32**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	16.6	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-05-006-4,355**	**N/A**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 12:54**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: T22.11.5. AII
Method: EPA 6010B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-11-1094-3	**Solid**	**ICP 5300**	**11/20/08**	**11/25/08**	**081124SA2**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	4X	4X	75-125	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering	Date Received:	N/A
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	T22.11.5. AII
	Method:	EPA 6010B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-05-006-4,355	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08**	**081124LA2**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	109	109	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-10-2683

Qualifier	Definition
*	See applicable analysis comment.
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 matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
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.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Virendra Patel

From: Richard Jenkins [rljenk4979@earthlink.net]
Sent: Wednesday, November 19, 2008 9:24 PM
To: Virendra Patel
Cc: 'Craig Stolz'; 'Tabb Bubier'
Subject: 7TH STREET GARAGE - SOIL SAMPLES - ANALYSIS FOR LEACHABLE LEAD

Virendra,

We would like to determine if any of the samples shown in the attached list exceed the STLC for lead. Please proceed to run the WET procedure on these. If you should have any questions, please to not hesitate to contact me. Also, feel free to contact Craig or Tabb.

Dick
P.S We are looking for normal TAT.

Richard L. Jenkins
11749 Capri Dr.
Whittier, CA
90601
562.692.4979
fax 562.692.8582

7TH STREET GARAGE SAMPLES TO ANALYZE LEACHABLE LEAD BY CALIFORNIA WET PROCEDURE

LAB NUMBER	LOCATION	TOTAL LEAD (MG/KG)
08-10-2683-8-A	GS13	261.0
08-10-2683-36-A	GS22	493.0
08-10-2805-14-A	GS28	278.0
08-10-2805-10-A	GS29	520.0
08-10-2805-1-A	GS30	369.0
08-10-2805-43-A	HA3	319.0
08-10-2805-44-A	HA3	536.0
08-10-2805-46-A	HA4	758.0
08-10-2805-47-A	HA4	302.0
08-10-2805-53-A	HA6	303.0

Revised COC
08-10-2683
Received 11/03/08

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Date 10/30/08

Page 2 of 5

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza #270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949 470 1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage

PROJECT CONTACT: Craig Stolz

SAMPLER(S) (PRINT): Scott Miles

COELT LOG CODE:

P.O. NO:

LAB USE ONLY: 10-2683

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or ( )	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) ✓	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+		PAH 8270 SIM	TOTAL Arsenic, Lead, Cadmium
11	GS15-0.5'		10/30/08	1030	Soil	1										X								X
12	GS15-5'			1035		4			X		X					X							X	X
13	GS15-10'			1040	↓	4			X		X													
14	GS15-GW			1105	H2O	5			X		X													X
15	GS16-0.5'			1125	Soil	1										X								X
16	GS16-5'			1130		4			X		X					X							X	X
17	GS16-10'			1135	↓	4			X		X													
18	GS16-GW			1145	H2O	5			X		X													
19	GS18-0.5'			1200	Soil	X										X								X
20	GS18-5'			1205	↓	4			X		X					X								X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Scott Miles	Precy A - CEL	10/30/08	16:24
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Date 10/30/08

Page 1 of 5

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza #270

CITY: Mission Viejo | STATE: CA | ZIP: 92691

TEL: 949 470 1937 | E-MAIL: CStolz@pacificedge-eng.com

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2683

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE:

COOLER RECEIPT: TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44+)	BTEX / MTBE (8260B) or (____)	VOCs (8260B) x	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) x	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____	PAH 8270C SIM	TOTAL Ni, Cu, Lead, Cadmium
1	GS14-0.5'		10/30/08	0835	Soil	1										X							X
2	GS 14 - 5'			0840		1			X		X					X						X	X
3	GS 14 - 9.5'			0845		1			X		X												
4	GS12-0.5'			0907		1										X							X
5	GS17-5'			0912		1			X		X					X							X
6	GS17-10'			0915		1			X		X											X	
7	GS13-0.5'			0940		1										X						X	X
8	GS13-5'			0945		4			X		X					X						X	X
9	GS13-10'			0950	↓	4			X		X												X
10	GS13-GW		↓	1000	H2O	5			X		X												

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Scott Miles	Tracy A. CEL	10/30/08	16:24
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CHAIN OF CUSTODY RECORD

Date 10/30/08

Page 2 of 5

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza #270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949 470 1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2683

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE: ☐☐☐☐

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

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LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (____)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____		PAH 8270 SIM	7 OTAT Arsenic, Lead, Cadmium
11	GS15-0.5'		10/30/08	1030	Soil	1										X								X
12	GS15-5'			1035		4			X		X					X							X	X
13	GS15-10'			1040	↓	4			X		X													
14	GS15-GW			1105	H2O	5			X		X													X
15	GS16-0.5'			1125	Soil	1										X								X
16	GS16-5'			1130		4			X		X					X							X	X
17	GS16-10'			1135	↓	4			X		X													
18	GS16-GW			1145	H2O	5			X		X													
19	GS18-0.5'			1200	Soil	4										X								X
20	GS18-5'		↓	1205	↓	4			X		X					X								X

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(925) 689-9022

Date 10/30/08

Page 3 of 5

LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 26691 PLAZA, Suite 270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: (949) 470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: PCLA - 7th Street Garage
PROJECT CONTACT: Craig Stolz
SAMPLER(S): (PRINT) Scott Miles
COELT LOG CODE:
P.O. NO.:
LAB USE ONLY: 10-2683
COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

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21	GS18-10'		10/30/08	1215	Soil	4			X		X												X	
22	GS19-0.5			1250		1										X								X
23	GS19-1'			1252		1			X							X								X
24	GS19-5'			1255		4			X		X												X	
25	GS19-10'			1300		4			X		X													
26	GS19-GW			1310	H_2O	5			X		X													
27	GS20-0.5			1320	Soil	1										X								X
28	GS20-1'			1322		1										X							X	X
29	GS20-5'			1328		4			X		X													
30	GS20-10'			1340		4			X		X													

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(925) 689-9022

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: (949) 470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage

PROJECT CONTACT: Craig Stolz

SAMPLER(S): (PRINT) Scott Miles

P.O. NO.:

LAB USE ONLY: 10-2683

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (____)	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) X	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____		PAH 8270 SIM Total Arsenic, Lead, Cadmium
31	GS20-GW		10/30/08	1350	H2O	5			X		X					X							
32	GS23-0.5'			1355	Soil	1										X							X
33	GS23-1'			1357		1										X							X
34	GS23-5'			1401		4			X		X					X							
35	GS23-10'			1405		4			X		X											X	
36	GS22-0.5'			1430		1										X							X
37	GS22-1'			1433		1										X							X
38	GS22-5'			1440		4			X		X											X	
39	GS22-10'			1445		4			X		X												
40	GS23-GW			1415	H2O	5			X		X												

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Scott Miles	Preeya A. CEL	10/30/08	16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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(925) 689-9022

Date 10/30/08

Page 5 of 5

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: (949) 470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA 7th Street Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2683

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) X	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+ ___		PAH 8270 SIM	Total Arsenic, Lead, Cadmium
41	GS22-GW		10/30/08	1500	H2O	5			X		X												(CAM)	
42	GS22-0.5			1510	Soil	1										X								X
43	GS21-5'			1515		4			X		X					X							X	X
44	GS21-10'			1520		4			X		X													
45	GS21-GW			1530	H2O	5			X		X													

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Scott Miles	Tracy L - CEL	10/30/08	16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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WORK ORDER #: 08-10-0268 3

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: PACIFIC EDGE ENGINEERING

DATE: 10/30/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C + 1.8 °C (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.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐Air ☐Filter **Initial:** PS

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	Initial: PS
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present	Initial: PS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Proper preservation noted on sample label(s)	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑4 VOAh ☐$VOANa_2$ ☐125AGB ☐125AGBh ☐$125AGBpo_4$ ☑1AGB ☐$1AGBna_2$

☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB

☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐$100PBna_2$ ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Checked/Labeled by: PS

Reviewed by: NC

Scanned by: PS

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2683

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: PACIFIC EDGE ENGINEERING

DATE: 10 / 30 / 08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.6 °C + 1.8 °C (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.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐Air ☐Filter Initial: PS

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: PS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: PS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Proper preservation noted on sample label(s)	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐$VOANa_2$ ☐125AGB ☐125AGBh ☐$125AGBpo_4$ ☐1AGB ☐$1AGBna_2$

☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB

☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐$100PBna_2$ ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: PS

Reviewed by: MC

Scanned by: PS

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2683

SAMPLE ANOMALY FORM

CHAIN OF CUSTODY (COC):

Comments:

- ☐ **Not relinquished by client** – no signature
- ☐ **No date/time relinquished**
- ☐ **COC not received with samples** – notify PM
- ☐ **Incomplete information regarding samples, tests, etc.**

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples 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
- ☐ **No preservative noted on label** – list test and notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample labels do not match COC** – Note in comments
  - ☐ **Sample ID's**
  - ☐ **Date and Time Collected**
  - ☐ **Project Information**
  - ☑ **# of containers**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Other:** _____

(-19) GS18-0-5' RCVD 1 CONTAINER INSTEAD OF 4. (8260 not requested)

VOA 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 Vials Received

Comments: _____

Initial and Date PS 10-30-08

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

December 01, 2008

Additional requested analyses are reported as a stand-alone report.

Craig Stolz
Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Subject: **Calscience Work Order No.: 08-10-2805**
Client Reference: POLA-7th Street Garage

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/31/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: T22.11.5. AII
Method: EPA 6010B

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-0.5'	**08-10-2805-1-A**	**10/31/08 08:27**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:18**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	65.9	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-0.5'	**08-10-2805-10-A**	**10/31/08 09:20**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:19**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	5.31	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-0.5'	**08-10-2805-14-A**	**10/31/08 09:32**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:21**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	24.9	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA3-0.5'	**08-10-2805-43-A**	**10/31/08 12:37**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:23**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	15.5	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA3-1'	**08-10-2805-44-A**	**10/31/08 12:38**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:24**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	2.34	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA4-0.5'	**08-10-2805-46-A**	**10/31/08 12:40**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:26**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	26.8	0.100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: T22.11.5. AII
Method: EPA 6010B

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA4-1'	**08-10-2805-47-A**	**10/31/08 12:41**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:27**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	40.7	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA6-1'	**08-10-2805-53-A**	**10/31/08 12:48**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:29**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	75.1	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-05-006-4,355**	**N/A**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 12:54**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: T22.11.5. AII
Method: EPA 6010B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-11-1094-3	**Solid**	**ICP 5300**	**11/20/08**	**11/25/08**	**081124SA2**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	4X	4X	75-125	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering	Date Received:	N/A
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	T22.11.5. AII
	Method:	EPA 6010B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-05-006-4,355	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08**	**081124LA2**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	109	109	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-10-2805

Qualifier	Definition
*	See applicable analysis comment.
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 matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
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.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Virendra Patel

From: Richard Jenkins [rljenk4979@earthlink.net]
Sent: Wednesday, November 19, 2008 9:24 PM
To: Virendra Patel
Cc: 'Craig Stolz'; 'Tabb Bubier'
Subject: 7TH STREET GARAGE - SOIL SAMPLES - ANALYSIS FOR LEACHABLE LEAD

Virendra,

We would like to determine if any of the samples shown in the attached list exceed the STLC for lead. Please proceed to run the WET procedure on these. If you should have any questions, please to not hesitate to contact me. Also, feel free to contact Craig or Tabb.

Dick
P.S We are looking for normal TAT.

Richard L. Jenkins
11749 Capri Dr.
Whittier, CA
90601
562.692.4979
fax 562.692.8582

7TH STREET GARAGE SAMPLES TO ANALYZE LEACHABLE LEAD BY CALIFORNIA WET PROCEDURE

LAB NUMBER	LOCATION	TOTAL LEAD (MG/KG)
08-10-2683-8-A	GS13	261.0
08-10-2683-36-A	GS22	493.0
08-10-2805-14-A	GS28	278.0
08-10-2805-10-A	GS29	520.0
08-10-2805-1-A	GS30	369.0
08-10-2805-43-A	HA3	319.0
08-10-2805-44-A	HA3	536.0
08-10-2805-46-A	HA4	758.0
08-10-2805-47-A	HA4	302.0
08-10-2805-53-A	HA6	303.0

Calscience Environmental Laboratories, Inc.

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 10/31/08

Page 1 of 8

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: (949) 470-1937 E-MAIL: CStolz@pacificedge-eng.com

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: POLA - 7th street GARAGE

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B) *	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) X	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+___	PAH 8270 SIM	TOTAL Arsenic, Lead, Cadmium
1	GS30-0.5'		10/31/08	0827	Soil	1										X							X
2	GS30-5'			0835		4			X		X		X									X	
3	GS30-10'			0840		4			X		X		X										
4	GS30-1'			0830	↓	1										X							X
5	GS30-GW			0850	H2O	5			X		X												
6	GS31-0.5'			0900	Soil	1										X							X
7	GS31-1'			0902		1										X							X
8	GS31-5'			0908		4			X		X		X									X	
9	GS31-10'			0911		4			X		X		X										
10	GS29-0.5'			0920	↓	1										X							X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Tracy A. CEL	10/31/08	14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Calscience Environmental Laboratories, Inc.

☒ SoCal Laboratory
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(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 10/31/08

LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 76691 Plaza, Suite 270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL
SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: PDLA - 7th Street GARAGE
P.O. NO.:
PROJECT CONTACT: Craig Stolz
LAB USE ONLY: 10-2801
SAMPLER(S): (PRINT) Scott MILES
COELT LOG CODE:
COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B) x'	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) x	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+___	PAH 8270 SIM	Lead, Arsenic, Cadmium
11	GS29-1'		10/31/08	0922	Soil	1										X							X
12	GS29-5'			0924		4			X		X		X										
13	GS29-10'			0927		4			X		X		X									X	
14	GS28-0.5'			0932		1										X							X
15	GS28-1'			0934		1										X							X
16	GS28-5'			0938		4			X		X		X										
17	GS28-10'			0943		4			X		X		X									X	
18	GS27-0.5'			0955		1										X							X
19	GS27-1'			0957		1			X		'					X							X
20	GS27-5'		↓	1000	↓	4			X		X		X										

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Tracy A - CEL	10/31/08	14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

SoCal Laboratory
7440 Lincoln Way
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NorCal Service Center
5063 Commercial Circle, Suite H
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(925) 689-9022

Date 10/31/08

Page 3 of 8

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street GARAGE

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD / EXCEL

SPECIAL INSTRUCTIONS: Strong TPH odor @ GS27-5', GS27-10'

Oil Droplets noted IN H_2O Sample : GS27-GW

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+___	PAH 8270 SIM	Arsenic, Lead, Cadmium
21	GS27-10'		10/31/08	1004	Soil	4			X		X		X			X						X	
22	GS27-GW			1015	H_2O	5			X		X												
23	GS25-0.5'			1103	Soil	1																	X
24	GS25-1'			1105	↓	1			X														X
25	GS25-5'			1108		4			X		X		X			X						X	
26	GS25-10'			1112	↓	4			X		X		X			X							
27	GS25-GW			1120	H_2O	5			X		X												
28	GS24-0.5'			1137	Soil	1										X							X
29	GS24-1'			1139	↓	1										X							X
30	GS24-5'		↓	1143	↓	4			X		X		X										

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Greg A. - CEL	10/31/08	14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☒ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

Date 10/31/08

Page 4 of 8

LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 26691 PLAZA, Suite 270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street GARAGE
P.O. NO.:
PROJECT CONTACT: Craig Stolz
LAB USE ONLY: 10-2805
SAMPLER(S): (PRINT) Scott Miles
COELT LOG CODE:
COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (____)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____	PAH 8270 SIM	Total Arsenic, Lead, Cadmium
31	GS24-10'		10/31/08	1146	Soil	4			X		X		X									X	
32	GS26-0.5'			1153		1										X							X
33	GS26-1'			1155		1										X							X
34	GS26-5'			1158		4			X		X		X									X	X
35	GS26-10'			1204		4			X		X		X										
36	GS26-GW			1215	H2O	5			X		X												

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Preeya P - CEL	10/31/08	14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN OF CUSTODY RECORD

Date 10/31/08

Page 5 of 8

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 28691 Plaza #270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949 4701937 E-MAIL: cstolz@pacificedgeeng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th St. Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) x	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	Lead TOTAL	Cadmium TOTAL	Archive
37	HA1-0.5'		10/31/08	1230	Soil	1																		X
38	HA1-1'			1231		1																		X
39	HA1-2'			1232		1																		X
40	HA2-0.5'			1234		1																		X
41	HA2-1'			1235		1																		X
42	HA2-2'			1236		1																		X
43	HA3-0.5'			1237		1																X	X	
44	HA3-1'			1238		1																X	X	
45	HA3-2'			1239		1																		X
46	HA4-0.5'			1240		1																X	X	

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Gregg A. Cox	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Date 10/31/08

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☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA 7th Street GARAGE

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE: ☐☐☐☐

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (____)	BTEX / MTBE (8260B) or (____)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____	TOTAL Lead	TTLC Cadmium	Archive
47	HA4-1'		10/31/08	1241	Soil	1																X	X	
48	HA4-2'			1242		1																		X
49	HA5-0.5'			1244		1																X	X	
50	HA5-1'			1245		1																		X
51	HA5-2'			1246		1																		X
52	HA6-0.5'			1247		1										X						X	X	
53	HA6-1'			1248		1										X						X		
54	HA6-2'			1249		1																		X
55	HA7-0.5'			1250		1										X						X	X	
56	HA7-1'		↓	1251	↓	1										X						X		

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Becky A - CEL	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 10/31/08

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

PH: 949-470-1937 E-MAIL: CStolz@pacific edge-eng.com

CLIENT PROJECT NAME / NUMBER: PSLA - 7th Street Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Seth Miles

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	TOTAL Lead	TOTAL Cadmium	Archive
57	HA7-1.5'		10/31/08	1252	Soil	1																		X
58	HA8-0.5'			1254		1										X						X	X	
59	HA8-1'			1255		1										X						X		
60	HA8-2'			1256		1																		X
61	HA9-0.5'			1257		1																X		
62	HA9-1'			1258		1																X		
63	HA9-2'			1258		1																		X
64	HA10-0.5'			1259		1																X		
65	HA10-1'			1300		1																X		
66	HA10-2'			1301		1																		X

Relinquished by: (Signature) Seth Miles	Received by: (Signature/Affiliation) Tracy L. CEL	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 10/31/08

Page 8 of 8

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street GARAGE

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/Excel

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) *	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	Total Lead	Total Cadmium	Archive
67	HA11-0.5'		10/31/08	1302	Soil	1																X		
68	HA11-1'			1303		1																		X
69	HA11-2'			1304		1																		X
70	HA11-3'			1305		1																X		
71	HA12-0.5'			1307		1																X		
72	HA12-1'			1308		1																		X
73	HA12-2'			1309		1																		X
74	HA12-3'			1310	↓	1																X		

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Tracy A. CEL	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2805

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: PACIFIC EDGE ENGINEERING DATE: 10/31/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.0 °C + **1.8 °C** (CF) = 4.8 °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 **Initial:** RS

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** RS
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** RN

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Proper preservation noted on sample label(s)	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☑1AGB ☐1AGBna_2

☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB

☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: RN

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: AV

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: RN

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2805

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: PACIFIC EDGE ENGINEERING DATE: 10/31/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.2 °C + 1.8 °C (CF) = 5.0 °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 **Initial:** PS

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** PS
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** RN

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Proper preservation noted on sample label(s).....	☑	☐	☐
Volatile analysis container(s) free of headspace.....	☑	☐	☐
Tedlar bag(s) free of condensation.....	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☑1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: RN

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: AO

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: RN

Appendix E

LABORATORY REPORTS FOR SOIL GAS

(949) 470-1937; (949) 470-0943 (FAX)

Jones Environmental, Inc.
Testing Laboratories
P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 4499685

JONES ENVIRONMENTAL

LABORATORY REPORT

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	10/31/08 & 11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

---

ANALYSES REQUESTED

1. EPA8260 - Volatile Organics by GC/MS
2. EPA 8015M - Methane

Approval: _____

Steve Jones, Ph.D.
Laboratory Manager

Jones Environmental, Inc.
Testing Laboratories
P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 4499685

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

EPA8260 - Volatile Organics by GC/MS

Sample ID:	GS13	GS15	GS16	GS17	GS21	**Practical Quantitation Limits**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	ND	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L

ND = Not Detected

Jones Environmental, Inc.
Testing Laboratories
P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 4499685

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

EPA8260 - Volatile Organics by GC/MS

Sample ID:	GS13	GS15	GS16	GS17	GS21	**Practical Quantitation Limits**	**Units**
Analytes:							
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Freon 113	ND	ND	ND	ND	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Styrene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethene	ND	ND	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	ND	ND	ND	ND	ND	0.020	ug/L
Toluene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Trichloroethylene	ND	ND	ND	ND	ND	0.020	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

EPA8260 - Volatile Organics by GC/MS

Sample ID:	GS13	GS15	GS16	GS17	GS21	**Practical Quantitation Limits**	**Units**
Analytes:							
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1	1	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	106%	108%	107%	108%	106%	60 - 140	
Toluene-d_8	105%	104%	104%	105%	104%	60 - 140	
4-Bromofluorobenzene	105%	106%	110%	104%	104%	60 - 140	

ND = Not Detected
@ = Estimated Concentration

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
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		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

EPA8260 - Volatile Organics by GC/MS

Sample ID:	GS25	GS26	GS27	**Practical Quantitation Limits**	**Units**
Analytes:					
Benzene	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	**0.155**	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	ND	ND	ND	0.020	ug/L

ND = Not Detected

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LABORATORY RESULTS

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
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		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

EPA8260 - Volatile Organics by GC/MS

Sample ID:	GS25	GS26	GS27	**Practical Quantitation Limits**	**Units**
Analytes:					
cis-1,2-Dichloroethene	ND	ND	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	**1.64**	0.020	ug/L
Freon 113	ND	ND	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	**0.783**	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	**0.589**	0.020	ug/L
Styrene	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethene	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethene	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	ND	ND	ND	0.020	ug/L
Toluene	ND	ND	ND	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	ND	ND	ND	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	0.020	ug/L
Trichloroethylene	ND	ND	ND	0.020	ug/L

ND = Not Detected

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LABORATORY RESULTS

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
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		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

EPA8260 - Volatile Organics by GC/MS

Sample ID:	GS25	GS26	GS27	**Practical Quantitation Limits**	**Units**
Analytes:					
Trichlorofluoromethane	ND	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	**0.783**	0.020	ug/L
Vinyl chloride	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1		
Surrogate Recovery :				**QC Limits**	
Dibromofluoromethane	106%	110%	93%	60 - 140	
Toluene-d_8	103%	101%	94%	60 - 140	
4-Bromofluorobenzene	109%	102%	--♦	60 - 140	

ND = Not Detected
♦ = High Hydrocarbon concentration in this sample prevented adequate surrogate recovery

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QUALITY CONTROL INFORMATION

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

---

EPA8260 - Volatile Organics by GC/MS

Sample Spiked: AMBIENT AIR

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
1,1-Dichloroethylene	103%	100%	2.1%	60 - 140
Benzene	116%	125%	7.8%	60 - 140
Trichloroethylene	123%	116%	5.6%	60 - 140
Toluene	106%	104%	2.6%	60 - 140
Chlorobenzene	108%	102%	6.0%	60 - 140

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

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LABORATORY RESULTS

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	10/31/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

EPA 8015M - Methane

Sample ID	GS13	GS15	GS16	GS17	GS21	**Dilution factor**	**Practical Quantitation Limits**	**Reporting Limits**	**UNITS**
Methane	ND	ND	**10.8**	ND	ND	1	10	10	ppm

Sample ID	GS25	GS26	GS27	**Dilution factor**	**Practical Quantitation Limits**	**Reporting Limits**	**UNITS**
Methane	**13.5**	ND	**7,580**	1	10	10	ppm

ND = Not Detected

QUALITY CONTROL INFORMATION

EPA 8015M - Methane

Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)
Methane	109%	109%	0.0%	70-130

Method Blank = Not Detected

LCS = Lab Control Sample
LCSD = Lab Control Sample Duplicate
RPD = Relative Percent Difference

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Chain-of-Custody Record

Client: Pacific Edge Engineering
Project Name: POLA - 7th Street GARAGE
Project Address: 1510 East I Street, Wilmington, CA
Project Contact: Craig Stolz

Date: 10/31/08
Client Project #: POLA - 7th Street GARAGE

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☒ Normal
- ☐ Mobile Lab

SOIL GAS
Purge Vol: ☐ 1P ☐ 3P ☐ 7P
Tracer: IPA
Purge Rate: _____ cc/min

JEL Project #: STV571
Page 1 of 2

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☐ no
Sealed ☐ yes ☐ no

Sample ID	Purge Volume	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Analysis Requested: Methane	Analysis Requested: VOCs 8260B	Number of Containers	Remarks/Special Instructions
GS13		Tedlar	10/31/08	0906		SG	X			
GS13	3+	TO-CAN		0907-0916		SG		X		
GS15		Tedlar		0955		SG	X			
GS15	3+	TO-CAN		0957-1007		SG		X		
GS16		Tedlar		1057		SG	X			
GS16	3+	TO-CAN		1058-1035		SG		X		Unable to get 0 PSI
GS17		Tedlar		1113		SG	X			
GS17	3+	TO-CAN		1113-1128		SG		X		
GS21		Tedlar		1147		SG	X			
GS21	3+	TO-CAN		1148-1220				X		

❶ Relinquished by (signature): Craig Stolz	Date: 10/31/08	❷ Received by (signature): Karen Burns	Date: 10/31/08	Total Number of Containers
Company	Time	Company: JEL	Time: 1500	
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date	
Company	Time	Company	Time	

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

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Chain-of-Custody Record

Client: Pacific Edge Engineering
Date: 10/31/08
Project Name: PBLA- 7th Street GARAGE
Client Project #: PBLA-7th Street GARAGE
Project Address: 1510 East I Street, Wilmington, CA
Project Contact: Craig Stolz

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☒ Normal
- ☐ Mobile Lab

SOIL GAS
Purge Vol: ☐ 1P ☐ 3P ☐ 7P
Tracer: IPA
Purge Rate: _____ cc/min

JEL Project #: ST4571
Page 2 of 2

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☐ no
Sealed ☐ yes ☐ no

Analysis Requested

Sample ID	Purge Volume	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Methane	VOCs 8260B				Number of Containers	Remarks/Special Instructions
GS25		Tedlar	10/31/08	1231			X						
GS25		TO-CAN		1232-1245				X					
GS26		Tedlar		1330			X						
GS26		TO-CAN		1331-1400				X					
GS27		Tedlar		1247			X						
GS27		TO-CAN		1248-1315				X					

❶ Relinquished by (signature): Craig Stolz	Date: 10/31/08	❷ Received by (signature): Karen Brune	Date: 10/31/08		**Total Number of Containers**
Company	Time	Company: JEL	Time: 1500		
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date		
Company	Time	Company	Time		

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

JONES ENVIRONMENTAL, INC.

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FULLERTON, CA 92838
714-449-9937 FAX # 714-449-9685

Invoice

Date	Invoice #
11/3/2008	ST4571

Bill To
PACIFIC EDGE ENVIRONMENTAL, INC. 26691 Plaza, Suite 270 Mission Viejo, CA 92691 Attn: Greg Dickinson

P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
	POLA 7TH STREET GARAGE - 1510 E. I STREET, WILMINGTON, CA (10/31/08)		
8	EPA 8260B + OXYGENATES	100.00	800.00
8	EPA 8015M - Methane	75.00	600.00
8	RENTAL - SUMMAS/REGULATORS	75.00	600.00
10	TEDLAR BAGS	10.00	100.00

Thank you for your business.

Total $2,100.00

PACIFIC EDGE ENGINEERING, INC.

TECHNICAL MEMORANDUM

To: **Shirin Sadrpour, Marine Environmental Supervisor**
Pauling Sun, Environmental Specialist III
Environmental Management Division
City of Los Angeles Harbor Department

From: **Craig A. Stolz, P.E., Principal Engineer** C.A. Stolz
Tabb W. Bubier, Principal Tabb W. Bubier

Date: **May 30, 2018**

RE: **Evaluation of Soil Sample Results**
1510 East I Street, Wilmington, California

This memorandum has been prepared at the request of the City of Los Angeles Harbor Department (Harbor Department) Environmental Management Division (EMD). This memorandum documents a current evaluation of soil sample results collected and analyzed in 2007 and 2008 by Pacific Edge Engineering, Inc. (Pacific Edge) and 2018 by Parsons. The purpose of this evaluation is to compare contaminant concentrations in site soils to current human health screening levels.

Site Description and Background

The Site is located at 1510 East I Street in Wilmington, California. The Site is approximately 1.28 acres in size and consists of eleven (11) lots. The entire Site is unpaved and is secured by a chain-link fence with one access gate located along East I Street. A site map is included as Figure 1.

In 2007 and 2008, Pacific Edge conducted soil, soil vapor, and groundwater sampling. Contaminants detected in soil included Total Petroleum Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAHs), metals, Volatile Organic Compounds (VOCs), and Polychlorinated Biphenyls (PCBs). Contaminants detected in grab-groundwater samples included TPH and several VOCs. Contaminants detected in soil vapor included methane and several VOCs. The results of these investigations are documented in Pacific Edge's report, "Supplemental Subsurface Investigation Report", dated February 17, 2009.

In April 2018, Parsons collected and analyzed several soil samples from borings B1 through B6. Parsons is currently preparing a report documenting their sample results. Parson's raw sample data for TPH, VOCs, metals, and PCBs was provided by EMD for our evaluation.

Potential Future Site Use

It is our understanding that the potential human health risk evaluation should consider that the future site use will be limited to commercial/industrial for the storage of trucks, trailers, and shipping containers. Since there are no pre-existing above-ground enclosed structures (buildings, shacks, portable office trailers, etc.), potential contaminant exposure pathways associated with indoor air will not be evaluated at this time. Therefore, the potential risk associated with soil vapors resulting from contaminates in soil and volatilization of contaminants in groundwater has not been conducted. If future aboveground structures were constructed at the site an evaluation of soil vapor intrusion into indoor air should be conducted and it is likely that this evaluation would require mitigation measures.

Soil Screening Levels

Soil screening levels used to conduct the current evaluation are industrial use screening levels and include:

- United States Environmental Protection Agency (USEPA) Regional Screening Level (RSL), November 2017.
- Department of Toxic Substances Control (DTSC) Modified Screening Level (SL), Human and Ecological Risk Office Note Number 3 (HERO 3), January 2018

The DTSC conducts a review of USEPA RSLs whenever they are updated. In most instances the DTSC considers the USEPA RSL to be appropriate. In some instances, the DTSC recommends a more conservative screening value than the USEPA RSL, which is the DTSC-SL.

It should be noted that background arsenic soil concentrations in southern California are typically higher than the USEPA RSL and DTSC-SL. DTSC recognizes that arsenic is naturally occurring at concentrations that pose a problem when evaluating arsenic as a chemical of potential concern at Los Angeles Unified School District (LAUSD) sites. DTSC conducted a study of background arsenic concentrations within the Los Angeles metropolitan area and statically arrived at an arsenic concentration of 11.32 mg/kg that is acceptable for LAUSD school sites. Therefore, our evaluation of arsenic in site soils considers the LAUSD screening level as the appropriate screening value.

Screening Evaluation

Tables 1 through 5 summarize soil sample results for 2007, 2008 (Pacific Edge), and 2018 (Parsons). Tables 1 through 5 also compares detected contaminant concentrations to the DTSC-SL and USEPA RSL. Contaminant concentrations underlined in the tables exceed the lower screening value between the DTSC-SL and USEPA RSL and indicates a potential human health risk for an industrial use (including a construction worker at the site).

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Table 1 presents the evaluation of TPH in soil. TPH soil concentrations exceed the screening value in four samples at depths that range from 0.5-feet below ground surface (bgs) to 10-feet bgs. These samples are located within lots 14 and 15 (borings GS8, GS9, GS25, and GS27).

Table 2 presents the evaluation of VOCs detected at least once in soil. Detected VOC concentrations do not exceed the USEPA RSL or DTSC-SL for industrial use.

Table 3 presents the evaluation of PAHs in soil. Detected PAH concentrations do not exceed the USEPA RSL or DTSC-SL for industrial use.

Table 4 presents the evaluation of metals in soil. Cadmium and lead were detected at several locations (0.5-feet to 2-feet bgs) throughout the site that exceed the USEPA RSL or DTSC-SL. Arsenic was detected at several locations (0.5-feet to 2.5-feet bgs) throughout the site at a concentration that exceeds the LAUSD acceptable concentration for school sites.

Total lead concentrations at several locations also exceed the Non-RCRA California Hazardous Waste concentration of 1,000 milligrams per kilogram (mg/kg). Further, total lead and cadmium concentrations exceeding 10 times the Soluble Threshold Limit Concentration (STLC) were detected throughout the site. These samples were not tested to determine their soluble concentration and it is possible that some or all locations could also exceed the STLC value and would also be considered Non-RCRA California Hazardous Waste soil.

Table 5 presents the evaluation of PCBs in soil. PCBs (aroclor-1248 or aroclor-1254) were detected in seven soil samples at a concentration that exceed the USEPA RSL. These samples were located in the center and western portion of the site at depths of 0.5-feet and 1-foot bgs.

Conclusions

TPH, arsenic, cadmium, lead, and PCBs exceed screening levels in shallow site soils. Therefore, a potential human health risk is present at the site. Based on the future site use (i.e. commercial/industrial storage lot) identified by the Harbor Department, the current exposure pathways are direct exposure by dermal contact/ingestion of soil or inhalation of dust particles generated from site soils. The potential health risk could be eliminated by removing the exposure pathways. Covering the site with an asphalt surface or a layer of clean compacted gravel having an adequate thickness to prevent the generation of dust from underlain site soils (approximately 4- to 6-inches) would eliminate the potential exposure pathways for future tenants.

During installation of the protective layer, potential exposure to construction workers by direct contact with site soils and inhalation of dust should be mitigated. Therefore, construction work should be conducted by a qualified contractor having properly trained personnel. At a minimum, personnel installing a surface cover should be trained in accordance with California Code of

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Regulations (CCR), Title 8, Section 5192 and have completed and kept current a Hazardous Waste Operations certification. All work should be conducted under a site-specific health and safety plan prepared by a qualified individual. The health and safety plan should identify potential exposure risks, measure to eliminate risks including dust mitigation, health and safety and dust monitoring, and personal protective equipment required.

Further, a maintenance plan should be developed that ensures the continued effectiveness of the surface cover. The maintenance plan should require inspections and inspection frequencies designed to identify needed repairs and or corrective actions necessary to prevent direct contact with soil or the generation of dust from exposed site soils.

Any grading of site soils in preparation for construction of an asphalt or gravel surface cover should be done with as little disturbance of site soils as possible and in a fashion as to not spread soils from one site area to another.

Attachments Figure 1
Tables 1 through 5

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LEGEND

- = Oil Well
- = Hand Auger Location - Oct 2008
- = Soil & Soil Gas Sample Locations - Oct 2007
- = Soil Sample Location - Oct 2008
- = Soil & Soil Gas Sample Location - Oct 2008
- = Soil & Groundwater Sample Location - Oct 2008
- = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- = Parsons Soil Sample Location - April 2018
- 12 = Lot Number
- — — — = Concrete Dyke
- AST = Aboveground oil storage tank

PACIFIC EDGE ENGINEERING, INC.

PORT OF LOS ANGELES
1510 E "I" STREET
WILMINGTON, CA

FIGURE 1
SITE PLAN AND BORING LOCATIONS

DATE:	5/30/2018	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
FILE NAME:	2659/PD15/FIGURES/FIG2		

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Boring ID	Date	Depth (ft)	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total	Gasoline	Diesel	Motor Oil
		DTSC-SL:	Gas (~ C6-C12) = NA					Diesel (~ C12-C20) = NA				Oil (~ C20-C44) = NA							NA	NA	NA	NA	NA
		USEPA RSL:	Gas (~ C6-C12) =420 mg/kg					Diesel (~ C12-C20) = 600 mg/kg				Oil (~ C20-C44) = 33,000							NA	NA	420	600	33,000
GS1	10/12/2007	0.5		<	<	0.25	0.56	0.28	0.28	0.15	0.28	0.16	1.9	0.24	<	<	<	<		< 5.0			
GS1	10/12/2007	2.5		<	<	0.3	1.0	0.4	0.47	0.29	0.35	0.3	0.76	0.2	<	<	<	<		< 5.0			
GS2	10/12/2007	0.5		<	<	<	<	<	1.1	1.7	9.5	12.0	28.0	61.0	93.0	78.0	65.0	72.0		420.0			
GS2	10/12/2007	2.5		<	<	1.5	1.1	0.83	1.2	0.64	2.0	1.6	13.0	5.8	7.9	6.2	4.4	5.2		51.0			
GS3	10/12/2007	0.5		<	<	0.45	0.22	0.13	0.79	0.5	2.5	2.5	16.0	18.0	34.0	29.0	17.0	28.0		150.0			
GS3	10/12/2007	2.5		<	<	<	<	3.2	12.0	23.0	46.0	55.0	91.0	200.0	270.0	200.0	210.0	170.0		1,300.0			
GS4	10/12/2007	0.5		<	<	0.45	0.95	1.1	1.8	1.8	3.1	5.2	15.0	19.0	32.0	26.0	19.0	30.0		160.0			
GS4	10/12/2007	2.5		<	<	0.22	0.56	0.041	0.52	0.7	1.7	1.7	7.4	4.2	7.3	3.7	3.0	4.4		35.0			
GS5	10/12/2007	0.5		<	<	0.36	0.89	<	1.2	2.9	6.3	7.7	25.0	39.0	66.0	67.0	51.0	53.0		320.0			
GS5	10/12/2007	2.5		<	<	0.1	0.13	0.36	2.0	3.2	5.2	5.2	10.0	12.0	14.0	9.3	7.6	10.0		79.0			
GS6	10/12/2007	0.5		<	<	<	<	<	4.7	33.0	92.0	160.0	300.0	770.0	1,000.0	840.0	670.0	520.0		4,400.0			
GS6	10/12/2007	2.5		<	<	0.38	0.1	0.075	0.78	0.57	3.1	3.2	18.0	16.0	18.0	11.0	9.5	11.0		92.0			
GS7	10/12/2007	0.5		<	<	<	<	14.0	59.0	96.0	190.0	370.0	650.0	2,100.0	3,600.0	2,300.0	2,100.0	1,800.0		13,000.0			
GS7	10/12/2007	2.5		<	<	<	<	0.41	0.37	0.22	0.17	0.87	2.2	2.3	1.8	0.28	<	<		8.6			
GS8	10/12/2007	0.5		<	<	<	<	<	7.8	22.0	55.0	72.0	130.0	500.0	990.0	900.0	1,100.0	980.0		4,700.0			
GS8	10/12/2007	2.5		<	<	360.0	160.0	78.0	160.0	180.0	350.0	250.0	400.0	720.0	910.0	1,300.0	950.0	900.0		6,700.0			
GS9	10/12/2007	0.5		<	<	<	4.4	68.0	220.0	440.0	680.0	680.0	960.0	2,100.0	2,500.0	1,800.0	1,700.0	1,400.0		13,000.0			
GS9	10/12/2007	2.5		<	16.0	120.0	350.0	930.0	1,600.0	2,200.0	2,600.0	2,300.0	2,400.0	4,600.0	5,000.0	3,300.0	2,100.0	2,200.0		30,000.0			
GS10	10/12/2007	0.5		<	<	<	1.4	3.5	6.1	4.6	10.0	14.0	24.0	51.0	87.0	56.0	34.0	57.0		350.0			
GS10	10/12/2007	2.5		<	<	<	<	<	16.0	45.0	110.0	180.0	330.0	760.0	1,100.0	720.0	530.0	390.0		4,100.0			
GS11	10/12/2007	0.5		<	<	0.32	0.89	0.53	0.8	1.0	3.0	2.8	9.2	11.0	15.0	13.0	12.0	11.0		81.0			
GS11	10/12/2007	2.5		<	<	0.13	0.65	0.46	1.2	0.27	0.4	0.25	2.1	0.12	<	<	<	<		5.6			
GS12	10/12/2007	0.5		<	<	<	<	0.25	1.5	3.9	6.0	12.0	20.0	28.0	43.0	26.0	21.0	31.0		190.0			
GS12	10/12/2007	2.5		<	<	0.62	1.9	2.1	2.8	3.5	8.8	15.0	34.0	53.0	64.0	41.0	8.3	19.0		250.0			
GS13	10/30/2008	5	<	<	<	<	<	<	<	<	<	<	<	0.35	<	<	<	<	< 5.0				
GS13	10/30/2008	10	<	<	<	<	0.31	0.26	0.67	0.13	0.11	0.11	0.084	2.7	<	<	<	<	< 5.0				
GS14	10/30/2008	5	<	<	<	<	0.28	0.39	0.59	0.25	0.18	0.2	0.19	1.7	<	<	<	<	< 5.0				
GS14	10/30/2008	9.5	<	<	<	<	<	0.3	1.0	1.1	1.7	2.2	3.2	13.0	14.0	12.0	14.0	8.3	70.0				
GS15	10/30/2008	5	<	<	<	<	0.17	0.3	0.49	0.11	0.19	0.22	0.27	0.72	<	<	<	<	< 5.0				
GS15	10/30/2008	10	<	<	<	<	0.62	0.24	1.5	0.14	0.15	0.16	0.12	8.4	<	<	<	<	11.0				
GS16	10/30/2008	5	<	<	<	<	<	0.06	0.23	<	<	<	0.044	0.58	<	<	<	<	< 5.0				
GS16	10/30/2008	10	<	<	<	<	0.44	0.3	0.86	0.12	0.14	0.11	0.14	4.5	<	<	<	<	6.6				
GS17	10/30/2008	5	<	<	<	<	0.12	0.13	0.32	<	<	<	0.09	0.85	<	<	<	<	< 5.0				
GS17	10/30/2008	10	<	<	<	<	0.27	0.18	0.45	0.13	0.15	0.39	0.22	1.4	<	<	<	<	< 5.0				
GS18	10/30/2008	5	<	<	<	<	<	0.05	0.29	0.13	0.087	0.006	<	0.55	<	<	<	<	< 5.0				
GS18	10/30/2008	10	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	< 5.0				

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Boring ID	Date	Depth (ft)	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total	Gasoline	Diesel	Motor Oil
		DTSC-SL:	Gas (~ C6-C12) = NA					Diesel (~ C12-C20) = NA				Oil (~ C20-C44) = NA							NA	NA	NA	NA	NA
		USEPA RSL:	Gas (~ C6-C12) =420 mg/kg					Diesel (~ C12-C20) = 600 mg/kg				Oil (~ C20-C44) = 33,000							NA	NA	420	600	33,000
GS19	10/30/2008	1	<	<	<	<	0.27	0.99	1.5	1.6	3.0	3.8	5.9	22.0	26.0	21.0	34.0	15.0	130.0				
GS19	10/30/2008	5	<	<	<	<	<	0.19	0.31	<	<	<	<	1.3	<	<	<	<	< 5.0				
GS19	10/30/2008	10	<	<	<	<	0.46	0.61	1.7	0.19	0.19	0.17	0.14	6.2	<	<	<	<	9.6				
GS20	10/30/2008	5	<	<	<	<	0.73	0.32	1.7	0.17	<	<	0.064	9.7	<	<	<	<	13.0				
GS20	10/30/2008	10	<	<	<	<	0.36	0.34	0.55	0.18	0.17	0.42	0.82	1.0	<	<	<	<	< 5.0				
GS21	10/30/2008	5	<	<	<	<	0.16	0.22	0.5	0.27	0.2	0.32	0.31	0.34	<	<	<	<	< 5.0				
GS21	10/30/2008	10	<	<	<	<	0.3	0.26	1.0	0.27	0.2	0.17	0.25	3.5	<	<	<	<	5.9				
GS22	10/30/2008	5	<	<	<	0.034	0.12	0.21	0.4	0.17	0.42	0.95	4.3	2.6	1.6	0.096	<	<	11.0				
GS22	10/30/2008	10	<	<	<	<	0.2	0.27	0.56	0.37	0.82	0.17	8.0	0.1	<	<	<	<	10.0				
GS23	10/30/2008	5	<	<	<	<	<	<	<	<	<	<	2.6	<	<	<	<	<	< 5.0				
GS23	10/30/2008	10	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	< 5.0				
GS24	10/31/2008	5	<	<	0.29	0.19	0.13	0.23	0.51	0.32	0.61	1.3	1.4	6.0	3.1	1.9	3.2	2.8	22.0				
GS24	10/31/2008	10	<	<	<	<	<	0.044	0.2	0.095	0.11	0.34	0.83	0.57	<	<	<	<	< 5.0				
GS25	10/31/2008	1	<	<	<	<	3.8	53.0	200.0	390.0	640.0	950.0	960.0	2,600.0	2,700.0	2,100.0	2,100.0	1,500.0	14,000.0				
GS25	10/31/2008	5	<	<	<	<	<	<	<	<	<	<	0.18	0.28	<	<	<	<	< 5.0				
GS25	10/31/2008	10	<	<	<	<	0.36	0.18	0.72	0.06	0.1	0.39	0.4	4.3	<	<	<	<	6.5				
GS26	10/31/2008	5	<	<	<	0.9	1.0	0.52	1.5	0.27	0.21	0.21	0.21	4.3	0.17	<	<	<	9.3				
GS26	10/31/2008	10	<	<	<	1.5	0.94	0.5	1.0	0.32	0.22	0.22	0.19	1.6	0.6	<	<	<	7.1				
GS27	10/31/2008	1	<	<	0.54	0.42	0.28	0.65	1.5	3.1	6.1	8.9	12.0	29.0	34.0	25.0	28.0	15.0	160.0				
GS27	10/31/2008	5	<	<	<	<	0.22	0.19	0.52	0.14	0.13	0.26	0.61	3.5	<	<	<	<	5.6				
GS27	10/31/2008	10	<	<	100.0	590.0	1,200.0	1,900.0	1,900.0	1,600.0	1,700.0	1,500.0	1,300.0	2,600.0	2,300.0	1,600.0	1,500.0	1,000.0	21,000.0				
GS28	10/31/2008	5	<	<	<	<	0.35	0.15	1.2	0.088	0.08	0.36	0.65	7.2	<	<	<	<	10.0				
GS28	10/31/2008	10	<	<	<	<	<	<	<	<	<	0.047	0.28	0.83	<	<	<	<	< 5.0				
GS29	10/31/2008	5	<	0.64	0.52	0.36	0.97	0.64	1.4	1.2	1.8	2.3	2.4	11.0	7.7	5.2	5.1	3.2	45.0				
GS29	10/31/2008	10	<	<	<	<	<	<	0.3	0.008	0.021	0.35	1.0	1.8	<	<	<	<	< 5.0				
GS30	10/31/2008	5	<	<	<	<	<	<	0.72	0.11	0.064	0.3	0.27	3.4	<	<	<	<	< 5.0				
GS30	10/31/2008	10	<	<	<	<	<	0.032	0.59	0.011	0.02	0.38	0.33	2.9	<	<	<	<	< 5.0				
GS31	10/31/2008	5	<	<	<	<	<	<	0.26	0.044	0.045	0.27	0.3	0.73	<	<	<	<	< 5.0				
GS31	10/31/2008	10	<	<	<	<	<	<	0.68	0.029	0.11	0.32	0.52	5.0	<	<	<	<	6.6				
B1	4/16/2018	0.5																			23.0		
	4/17/2018	0.5																				46.0	590.0
B1	4/17/2018	2																				< 5.7	< 5.7
	4/16/2018	2																			< 0.46		
B1	4/16/2018	5																			< 0.45		
	4/17/2018	5																				< 5.8	< 5.8
B1	4/17/2018	10																				< 6.2	< 6.2
	4/16/2018	10																			< 0.52		

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Boring ID	Date	Depth (ft)	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total	Gasoline	Diesel	Motor Oil
		DTSC-SL:	Gas (~ C6-C12) = NA					Diesel (~ C12-C20) = NA				Oil (~ C20-C44) = NA							NA	NA	NA	NA	NA
		USEPA RSL:	Gas (~ C6-C12) =420 mg/kg					Diesel (~ C12-C20) = 600 mg/kg				Oil (~ C20-C44) = 33,000							NA	NA	420	600	33,000
B1	4/16/2018	15																			< 0.45		
	4/17/2018	15																				< 5.8	< 5.8
B2	4/16/2018	0.5																			**0.95**	**79.0**	**1,100.0**
B2	4/16/2018	2																			< 0.53	**130.0**	**1,200.0**
B3	4/16/2018	0.5																			< 0.55	**30.0**	**700.0**
B3	4/16/2018	2																			< 0.52	**20.0**	**450.0**
B3	4/16/2018	2																			< 0.44	**34.0**	**570.0**
B4	4/16/2018	0.5																			**1.4**	**210.0**	**2,000.0**
B4	4/16/2018	0.5																			< 0.45	**150.0**	**1,400.0**
B4	4/16/2018	2																			< 0.47	**21.0**	**240.0**

1) TPH = Total Petroleum Hydrocarbon - EPA Method 8015B (M).

2) C = Carbon Chain Range

3) "<" indicates compound not detected at or above laboratory detection limit. Where detection limit not shown, unavailable from lab report.

4) (---) Not Applicable.

4) Bold indicates concentration equals or exceeds laboratory reporting limit.

5) DTSC-SL is California Department of Toxic Substances Control (DTSC) Modified Screening Level (SL), Human and Ecological Risk Office Note Number 3 (HERO 3), January, 2018 for industrial soil.

6) USEPA RSL is United States Environmental Protection Agency (USEPA) Regional Screening Level (RSL), November 2017 for industrial soil.

7) Underlined value indicates concentration exceeds the stringent of the DTSC-SL and USEPA RSL.

8) Blank values indicates not analyzed.

Table 2 - VOC "Hits" in Soil Summary (ug/kg)
1510 East I Street, Wilmington, California

Boring_ID	Date Sample	Depth (feet)	Acetone	Benzene	Ethylbenzene	Toluene	o-Xylene	p/m-Xylene	Bromoform	Ethanol	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene
		DTSC-SL:	NA	1,400	---	5.4E+6	---	---	87,000	---	---	---	6.4E+6	---	1.2E+7
		USEPA RSL:	6.7E+8	5,100	25,000	4.7E+7	2.8E+6	2.4E+6	110,000	---	9.9E+6	17,000	5.8E+7	2.4E+7	1.2E+8
GS1	10/12/2007	2.5	< 48.0	< 0.96	< 0.96	**0.97**	< 0.96	< 1.9	< 4.8	< 480.0	< 0.96	< 9.6	< 0.96	< 0.96	< 0.96
GS2	10/12/2007	5.5	< 41.0	< 0.81	< 0.81	< 0.81	< 0.81	< 1.6	< 4.1	< 410.0	< 0.81	< 8.1	< 0.81	< 0.81	< 0.81
GS3	10/12/2007	2.5	< 42.0	< 0.85	< 0.85	< 0.85	< 0.85	< 1.7	< 4.2	**540.0**	< 0.85	< 8.5	< 0.85	< 0.85	< 0.85
GS4	10/12/2007	5.5	< 40.0	< 0.81	< 0.81	< 0.81	< 0.81	< 1.6	< 4.0	< 400.0	< 0.81	< 8.1	< 0.81	< 0.81	< 0.81
GS5	10/12/2007	2.5	< 42.0	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2	< 420.0	< 0.84	< 8.4	< 0.84	< 0.84	< 0.84
GS6	10/12/2007	5.5	< 45.0	< 0.89	< 0.89	< 0.89	< 0.89	< 1.8	< 4.5	< 450.0	< 0.89	< 8.9	< 0.89	< 0.89	< 0.89
GS7	10/12/2007	2.5	< 45.0	< 0.91	< 0.91	< 0.91	< 0.91	< 1.8	**8.9**	< 450.0	< 0.91	< 9.1	< 0.91	< 0.91	< 0.91
GS8	10/12/2007	2.5	< 42.0	< 0.83	< 0.83	< 0.83	< 0.83	< 1.7	< 4.2	< 420.0	< 0.83	< 8.3	< 0.83	< 0.83	< 0.83
GS9	10/12/2007	5.5	< 44.0	< 0.89	< 0.89	**1.3**	< 0.89	< 1.8	< 4.4	< 440.0	< 0.89	< 8.9	< 0.89	< 0.89	< 0.89
GS10	10/12/2007	2.5	< 40.0	< 0.8	< 0.8	**1.1**	< 0.8	**1.8**	< 4.0	< 400.0	< 0.8	< 8.0	< 0.8	< 0.8	< 0.8
GS11	10/12/2007	5.5	< 40.0	< 0.79	< 0.79	**1.1**	< 0.79	< 1.6	< 4.0	< 400.0	< 0.79	< 7.9	< 0.79	< 0.79	< 0.79
GS12	10/12/2007	5.5	< 41.0	< 0.81	< 0.81	< 0.81	< 0.81	< 1.6	< 4.1	< 410.0	< 0.81	< 8.1	< 0.81	< 0.81	< 0.81
GS13	10/30/2008	5	< 46.0	< 0.93	< 0.93	**8.6**	< 0.93	< 1.9	< 4.6		< 0.93	< 9.3	< 0.93	< 1.9	< 0.93
GS13	10/30/2008	10	< 42.0	< 0.84	< 0.84	**2.4**	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS14	10/30/2008	5	< 120.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 50.0	< 5.0	< 5.0	< 5.0
GS14	10/30/2008	9.5	< 120.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 50.0	< 5.0	< 5.0	< 5.0
GS15	10/30/2008	5	< 41.0	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS15	10/30/2008	10	< 41.0	< 0.82	< 0.82	**1.3**	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS16	10/30/2008	5	< 44.0	< 0.87	< 0.87	**3.0**	< 0.87	< 1.7	< 4.4		< 0.87	< 8.7	< 0.87	< 1.7	< 0.87
GS16	10/30/2008	10	< 42.0	< 0.85	< 0.85	**4.7**	< 0.85	< 1.7	< 4.2		< 0.85	< 8.5	< 0.85	< 1.7	< 0.85
GS17	10/30/2008	5	< 120.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 50.0	< 5.0	< 5.0	< 5.0

Table 2 - VOC "Hits" in Soil Summary (ug/kg)
1510 East I Street, Wilmington, California

Boring_ID	Date Sample	Depth (feet)	Acetone	Benzene	Ethylbenzene	Toluene	o-Xylene	p/m-Xylene	Bromoform	Ethanol	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene
		DTSC-SL:	NA	1,400	---	5.4E+6	---	---	87,000	---	---	---	6.4E+6	---	1.2E+7
		USEPA RSL:	6.7E+8	5,100	25,000	4.7E+7	2.8E+6	2.4E+6	110,000	---	9.9E+6	17,000	5.8E+7	2.4E+7	1.2E+8
GS17	10/30/2008	10	< 120.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 50.0	< 5.0	< 5.0	< 5.0
GS18	10/30/2008	5	< 45.0	< 0.89	< 0.89	**1.0**	< 0.89	< 1.8	< 4.5		< 0.89	< 8.9	< 0.89	< 1.8	< 0.89
GS18	10/30/2008	10	< 42.0	**1.7**	< 0.83	**1.5**	< 0.83	< 1.7	< 4.2		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS19	10/30/2008	5	< 46.0	< 0.92	< 0.92	< 0.92	< 0.92	< 1.8	< 4.6		< 0.92	< 9.2	< 0.92	< 1.8	< 0.92
GS19	10/30/2008	10	< 40.0	< 0.8	< 0.8	< 0.8	< 0.8	< 1.6	< 4.0		< 0.8	< 8.0	< 0.8	< 1.6	< 0.8
GS20	10/30/2008	5	< 41.0	< 0.83	< 0.83	< 0.83	< 0.83	< 1.7	< 4.1		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS20	10/30/2008	10	< 48.0	**1.9**	< 0.95	**1.1**	< 0.95	< 1.9	< 4.8		< 0.95	< 9.5	< 0.95	< 1.9	< 0.95
GS21	10/30/2008	5	< 40.0	< 0.79	< 0.79	< 0.79	< 0.79	< 1.6	< 4.0		< 0.79	< 7.9	< 0.79	< 1.6	< 0.79
GS21	10/30/2008	10	< 42.0	< 0.85	< 0.85	**1.0**	< 0.85	< 1.7	< 4.2		< 0.85	< 8.5	< 0.85	< 1.7	< 0.85
GS22	10/30/2008	5	< 42.0	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS22	10/30/2008	10	< 41.0	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS23	10/30/2008	5	< 41.0	< 0.83	< 0.83	< 0.83	< 0.83	< 1.7	< 4.1		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS23	10/30/2008	10	< 41.0	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS24	10/31/2008	5	< 42.0	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS24	10/31/2008	10	< 41.0	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS25	10/31/2008	5	< 43.0	< 0.86	< 0.86	< 0.86	< 0.86	< 1.7	< 4.3		< 0.86	< 8.6	< 0.86	< 1.7	< 0.86
GS25	10/31/2008	10	< 42.0	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS26	10/31/2008	5	< 41.0	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS26	10/31/2008	10	< 43.0	< 0.86	< 0.86	**1.3**	< 0.86	< 1.7	< 4.3		< 0.86	< 8.6	< 0.86	< 1.7	< 0.86
GS27	10/31/2008	5	< 42.0	< 0.85	< 0.85	< 0.85	< 0.85	< 1.7	< 4.2		< 0.85	< 8.5	< 0.85	< 1.7	< 0.85
GS27	10/31/2008	10	< 4,400.0	**110.0**	**5,900.0**	< 88.0	**140.0**	< 180.0	< 440.0		**3,500.0**	**15,000.0**	**4,300.0**	**5,700.0**	**4,200.0**

Table 2 - VOC "Hits" in Soil Summary (ug/kg)
1510 East I Street, Wilmington, California

Boring_ID	Date Sample	Depth (feet)	Acetone	Benzene	Ethylbenzene	Toluene	o-Xylene	p/m-Xylene	Bromoform	Ethanol	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene
		DTSC-SL:	NA	1,400	---	5.4E+6	---	---	87,000	---	---	---	6.4E+6	---	1.2E+7
		USEPA RSL:	6.7E+8	5,100	25,000	4.7E+7	2.8E+6	2.4E+6	110,000	---	9.9E+6	17,000	5.8E+7	2.4E+7	1.2E+8
GS28	10/31/2008	5	< 45.0	< 0.9	< 0.9	< 0.9	< 0.9	< 1.8	< 4.5		< 0.9	< 9.0	< 0.9	< 1.8	< 0.9
GS28	10/31/2008	10	< 42.0	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS29	10/31/2008	5	< 40.0	< 0.79	< 0.79	< 0.79	< 0.79	< 1.6	< 4.0		< 0.79	< 7.9	< 0.79	< 1.6	< 0.79
GS29	10/31/2008	10	< 41.0	< 0.83	< 0.83	**1.3**	< 0.83	< 1.7	< 4.1		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS30	10/31/2008	5	< 44.0	< 0.89	< 0.89	< 0.89	< 0.89	< 1.8	< 4.4		< 0.89	< 8.9	< 0.89	< 1.8	< 0.89
GS30	10/31/2008	10	< 39.0	< 0.77	< 0.77	< 0.77	< 0.77	< 1.5	< 3.9		< 0.77	< 7.7	< 0.77	< 1.5	< 0.77
GS31	10/31/2008	5	< 41.0	< 0.83	< 0.83	< 0.83	< 0.83	< 1.7	< 4.1		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS31	10/31/2008	10	< 40.0	< 0.8	< 0.8	< 0.8	< 0.8	< 1.6	< 4.0		< 0.8	< 8.0	< 0.8	< 1.6	< 0.8
B1	4/16/2018	5	**14.0**	< 0.96	< 0.96	< 0.96	< 0.96	< 1.9	**6.4**		< 0.96	< 1.9	< 0.96	< 0.96	< 0.96
B1	4/16/2018	10	**8.8**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.1	< 2.1		< 1.0	< 2.1	< 1.0	< 1.0	< 1.0
B1	4/16/2018	15	**6.5**	< 0.88	< 0.88	< 0.88	< 0.88	< 1.8	< 1.8		< 0.88	< 1.8	< 0.88	< 0.88	< 0.88

1) < indicates not detected at or above the noted detection limit.
2)Blank value indicates not analyzed.
3) (---) Not Applicable.
4) Bold indicates concentration equals or exceeds laboratory reporting limit.
5) DTSC-SL is California Department of Toxic Substances Control (DTSC) Modified Screening Level (SL), Human and Ecological Risk Office Note Number 3 (HERO 3), January, 2018 for industrial soil.
6) USEPA RSL is United States Environmental Protection Agency (USEPA) Regional Screening Level (RSL), November 2017 for industrial soil.
7) Underlined value indicates concentration exceeds the stringent of the DTSC-SL and USEPA RSL.

Table 3
PAHs in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Boring ID	Date	Depth (ft)	Acenaphthene	Chrysene	Fluorene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Phenanthrene	Pyrene
		DTSC-SL:	---	---	---	---	---	---	---	---
		USEPA RSL:	45,000	2,100	30,000	73	3,000	17	---	23,000
GS13	10/30/2008	0.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS13	10/30/2008	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS14	10/30/2008	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS15	10/30/2008	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS16	10/30/2008	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS17	10/30/2008	10	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS18	10/30/2008	10	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS19	10/30/2008	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS20	10/30/2008	1	< 0.02	**0.023**	< 0.02	< 0.02	**0.03**	**0.033**	**0.035**	**0.029**
GS21	10/30/2008	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS22	10/30/2008	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS23	10/30/2008	10	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS24	10/31/2008	10	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS25	10/31/2008	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS26	10/31/2008	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS27	10/31/2008	10	**1.2**	< 1.0	**1.6**	**17.0**	**26.0**	**8.3**	**4.2**	< 1.0

Table 3
PAHs in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Boring ID	Date	Depth (ft)	Acenaphthene	Chrysene	Fluorene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Phenanthrene	Pyrene
		DTSC-SL:	---	---	---	---	---	---	---	---
		USEPA RSL:	45,000	2,100	30,000	73	3,000	17	---	23,000
GS28	10/31/2008	10	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS29	10/31/2008	10	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS30	10/31/2008	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS31	10/31/2008	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

1) < indicates not detected at or above the noted detection limit.

2) (---) Not Applicable.

3) Bold indicates concentration equals or exceeds laboratory reporting limit.

4) DTSC-SL is California Department of Toxic Substances Control (DTSC) Modified Screening Level (SL), Human and Ecological Risk Office Note Number 3 (HERO 3), January, 2018 for industrial soil.

5) USEPA RSL is United States Environmental Protection Agency (USEPA) Regional Screening Level (RSL), November 2017 for industrial soil.

6) Underlined value indicates concentration exceeds the stringent of the DTSC-SL and USEPA RSL.

Table 4 - Metals in Soil Summary
1510 East I Street, Wilmington, California

Boring ID	Date	Depth (ft)	*Sb*	*As*	*Ba*	*Be*	*Cd*	*Cr*	*Co*	*Cu*	*Pb*	*Pb STLC*	*Hg*	*Mo*	*Ni*	*Se*	*Ag*	*Th*	*V*	*Zn*
		DTSC-SL:	---	0.36	---	210	7.3	---	---	---	320	---	4.5	---	3,100	---	1,500	---	1,000	---
		USEPA RSL:	470	3.0	2.2E+5	2,300	980	---	350	47,000	800	---	46	5,800	22,000	5,800	5,800	12	5,800	1.7E+5
GS1	10/12/2007	0.5	< 0.75	**3.85**	**104.0**	**0.281**	< 0.5	**15.3**	**9.27**	**28.6**	**10.4**		< 0.084	**0.934**	**12.3**	< 0.75	< 0.25	< 0.75	**28.5**	**39.7**
GS1	10/12/2007	2.5	< 0.75	**2.81**	**101.0**	**0.26**	< 0.5	**14.1**	**8.79**	**12.0**	**3.5**		< 0.084	**0.408**	**10.6**	< 0.75	< 0.25	< 0.75	**26.2**	**28.1**
GS2	10/12/2007	0.5	< 0.75	**3.83**	**118.0**	**0.313**	< 0.5	**17.5**	**9.72**	**19.9**	**21.2**		< 0.084	**0.538**	**16.1**	< 0.75	< 0.25	< 0.75	**33.4**	**76.8**
GS2	10/12/2007	2.5	< 0.75	**5.52**	**125.0**	**0.391**	< 0.5	**25.9**	**11.4**	**24.0**	**9.45**		< 0.084	**1.07**	**19.7**	< 0.75	< 0.25	< 0.75	**37.7**	**60.6**
GS3	10/12/2007	0.5	< 0.75	**5.58**	**186.0**	< 0.25	< 0.5	**18.0**	**4.98**	**161.0**	**42.5**		< 0.084	**2.14**	**17.9**	< 0.75	< 0.25	< 0.75	**23.6**	**195.0**
GS3	10/12/2007	2.5	< 0.75	**14.4**	**174.0**	**0.305**	**1.3**	**23.2**	**9.32**	**74.1**	**110.0**		**0.096**	**1.57**	**31.1**	< 0.75	< 0.25	< 0.75	**35.9**	**191.0**
GS4	10/12/2007	0.5	< 0.75	**5.24**	**154.0**	**0.363**	< 0.5	**23.4**	**9.95**	**26.3**	**36.0**		< 0.084	**0.587**	**16.6**	< 0.75	< 0.25	< 0.75	**37.4**	**95.2**
GS4	10/12/2007	2.5	< 0.75	**7.11**	**94.7**	**0.298**	< 0.5	**16.5**	**11.6**	**16.7**	**10.4**		< 0.084	**0.339**	**14.9**	< 0.75	< 0.25	< 0.75	**35.2**	**74.8**
GS5	10/12/2007	0.5	< 0.75	**5.24**	**150.0**	**0.394**	< 0.5	**34.2**	**11.3**	**28.3**	**41.3**		< 0.084	**0.669**	**20.7**	< 0.75	< 0.25	< 0.75	**41.4**	**95.4**
GS5	10/12/2007	2.5	< 0.75	**4.68**	**142.0**	**0.357**	< 0.5	**25.7**	**10.8**	**34.3**	**47.2**		< 0.084	**0.739**	**18.1**	< 0.75	< 0.25	< 0.75	**38.2**	**112.0**
GS6	10/12/2007	0.5	< 0.75	**6.02**	**223.0**	< 0.25	**2.02**	**21.2**	**7.24**	**140.0**	**1,210.0**		< 0.084	**1.98**	**35.0**	< 0.75	< 0.25	< 0.75	**33.3**	**508.0**
GS6	10/12/2007	2.5	< 0.75	**6.8**	**152.0**	**0.766**	< 0.5	**34.5**	**14.6**	**25.2**	**17.3**		< 0.084	< 0.25	**27.6**	< 0.75	< 0.25	< 0.75	**57.7**	**68.8**
GS7	10/12/2007	0.5	< 0.75	**6.28**	**143.0**	< 0.25	**1.45**	**18.2**	**7.08**	**57.9**	**228.0**		< 0.084	**2.7**	**22.3**	< 0.75	< 0.25	< 0.75	**29.2**	**255.0**
GS7	10/12/2007	2.5	< 0.75	**5.48**	**76.6**	**0.649**	< 0.5	**29.6**	**12.7**	**26.4**	**9.02**		< 0.084	< 0.25	**20.3**	< 0.75	< 0.25	< 0.75	**56.4**	**59.1**
GS8	10/12/2007	0.5	< 0.75	**6.79**	**183.0**	< 0.25	**0.514**	**17.2**	**5.35**	**283.0**	**119.0**		< 0.084	**1.74**	**23.8**	< 0.75	< 0.25	< 0.75	**27.2**	**326.0**
GS8	10/12/2007	2.5	< 0.75	**5.44**	**120.0**	**0.41**	< 0.5	**22.1**	**9.53**	**40.6**	**55.7**		**0.1**	**0.781**	**19.3**	< 0.75	< 0.25	< 0.75	**37.0**	**130.0**
GS9	10/12/2007	0.5	< 0.75	**12.0**	**250.0**	< 0.25	**0.934**	**23.1**	**7.72**	**62.6**	**144.0**		**0.124**	**3.32**	**30.3**	< 0.75	< 0.25	< 0.75	**47.1**	**460.0**
GS9	10/12/2007	2.5	< 0.75	**4.95**	**356.0**	< 0.25	< 0.5	**19.0**	**7.54**	**28.7**	**40.5**		< 0.084	**1.27**	**20.7**	< 0.75	< 0.25	< 0.75	**31.7**	**63.6**
GS10	10/12/2007	0.5	< 0.75	**5.41**	**228.0**	< 0.25	**0.56**	**19.2**	**4.31**	**152.0**	**122.0**		< 0.084	**2.82**	**21.2**	< 0.75	< 0.25	< 0.75	**18.0**	**1,200.0**
GS10	10/12/2007	2.5	< 0.75	**5.28**	**230.0**	< 0.25	**0.781**	**21.0**	**5.04**	**722.0**	**195.0**		< 0.084	**2.55**	**30.3**	< 0.75	< 0.25	< 0.75	**19.8**	**494.0**
GS11	10/12/2007	0.5	< 0.75	**3.66**	**97.1**	**0.353**	< 0.5	**18.0**	**9.58**	**16.2**	**12.5**		< 0.084	**0.287**	**14.6**	< 0.75	< 0.25	< 0.75	**32.5**	**49.8**
GS11	10/12/2007	2.5	< 0.75	**3.65**	**133.0**	**0.364**	< 0.5	**19.1**	**9.55**	**15.1**	**6.44**		< 0.084	**0.299**	**14.0**	< 0.75	< 0.25	< 0.75	**35.1**	**45.0**
GS12	10/12/2007	0.5	< 0.75	**8.41**	**145.0**	**0.472**	**1.76**	**79.3**	**11.0**	**47.9**	**60.6**		< 0.084	**1.54**	**41.1**	< 0.75	< 0.25	< 0.75	**53.5**	**1,760.0**
GS12	10/12/2007	2.5	< 0.75	**3.62**	**143.0**	**0.312**	< 0.5	**17.9**	**8.79**	**26.7**	**19.8**		< 0.084	**0.49**	**17.2**	< 0.75	< 0.25	< 0.75	**30.3**	**80.7**
GS13	10/30/2008	0.5		**7.83**			**5.13**				**261.0**									
GS13	10/30/2008	5		**2.99**			< 0.5				**6.9**	**0.185**								
GS13	10/30/2008	10		**2.4**			< 0.5				**7.96**									
GS14	10/30/2008	0.5		**4.87**			**1.51**				**154.0**									
GS14	10/30/2008	5		**6.12**			< 0.5				**7.31**									
GS15	10/30/2008	0.5		**5.48**			**2.28**				**143.0**									
GS15	10/30/2008	5		**1.89**			< 0.5				**3.6**									

Table 4 - Metals in Soil Summary
1510 East I Street, Wilmington, California

Boring ID	Date	Depth (ft)	*Sb*	*As*	*Ba*	*Be*	*Cd*	*Cr*	*Co*	*Cu*	*Pb*	*Pb STLC*	*Hg*	*Mo*	*Ni*	*Se*	*Ag*	*Th*	*V*	*Zn*
		DTSC-SL:	---	0.36	---	210	7.3	---	---	---	320	---	4.5	---	3,100	---	1,500	---	1,000	---
		USEPA RSL:	470	3.0	2.2E+5	2,300	980	---	350	47,000	800	---	46	5,800	22,000	5,800	5,800	12	5,800	1.7E+5
GS16	10/30/2008	0.5		**5.19**			**0.75**				**58.7**									
GS16	10/30/2008	5		**5.39**			< 0.5				**7.74**									
GS17	10/30/2008	0.5		**3.74**			**0.983**				**38.0**									
GS17	10/30/2008	5		**3.23**			< 0.5				**5.94**									
GS18	10/30/2008	0.5		**4.88**			**0.966**				**52.1**									
GS18	10/30/2008	5		**5.51**			< 0.5				**7.23**									
GS19	10/30/2008	0.5		**4.28**			**1.29**				**50.9**									
GS19	10/30/2008	1		**4.29**			**0.569**				**30.8**									
GS20	10/30/2008	0.5		**4.49**			**1.48**				**85.7**									
GS20	10/30/2008	1		**1.74**			< 0.5				**22.6**									
GS21	10/30/2008	0.5		**3.72**			**1.4**				**153.0**									
GS21	10/30/2008	5		**4.84**			< 0.5				**5.03**									
GS22	10/30/2008	0.5		**4.43**			**2.6**				**493.0**	**16.6**								
GS22	10/30/2008	1		**9.05**			**11.1**				**1,180.0**									
GS23	10/30/2008	0.5		**2.16**			< 0.5				**10.4**									
GS23	10/30/2008	1		**2.9**			**0.698**				**19.1**									
GS24	10/31/2008	0.5		**59.3**			**1.37**				**167.0**									
GS24	10/31/2008	1		**105.0**			**1.04**				**63.1**									
GS25	10/31/2008	0.5		**2.83**			**1.7**				**157.0**									
GS25	10/31/2008	1		**6.31**			**0.685**				**61.7**									
GS26	10/31/2008	1		**3.16**			**1.67**				**69.0**									
GS26	10/31/2008	0.5		**5.83**			**2.68**				**106.0**									
GS26	10/31/2008	5		**7.79**			**0.613**				**5.74**									
GS27	10/31/2008	0.5		**3.9**			**0.637**				**13.1**									
GS27	10/31/2008	1		**3.15**			< 0.5				**9.09**									
GS28	10/31/2008	0.5		**5.07**			**1.77**				**278.0**	**24.9**								
GS28	10/31/2008	1		**8.11**			**2.01**				**61.5**									
GS29	10/31/2008	0.5		**65.3**			**1.09**				**520.0**	**5.31**								
GS29	10/31/2008	1		**2.54**			**4.96**				**14.1**									
GS30	10/31/2008	0.5		**32.5**			**4.36**				**369.0**	**65.9**								
GS30	10/31/2008	1		**2.92**			**0.56**				**17.8**									

Table 4 - Metals in Soil Summary
1510 East I Street, Wilmington, California

Boring ID	Date	Depth (ft)	*Sb*	*As*	*Ba*	*Be*	*Cd*	*Cr*	*Co*	*Cu*	*Pb*	*Pb STLC*	*Hg*	*Mo*	*Ni*	*Se*	*Ag*	*Th*	*V*	*Zn*
		DTSC-SL:	---	0.36	---	210	7.3	---	---	---	320	---	4.5	---	3,100	---	1,500	---	1,000	---
		USEPA RSL:	470	3.0	2.2E+5	2,300	980	---	350	47,000	800	---	46	5,800	22,000	5,800	5,800	12	5,800	1.7E+5
GS31	10/31/2008	0.5		**3.97**			**8.55**				**194.0**									
GS31	10/31/2008	1		**2.48**			**1.23**				**51.3**									
HA3-	10/31/2008	0.5					**2.74**				**319.0**	**15.5**								
HA3-	10/31/2008	1					**11.7**				**536.0**	**2.34**								
HA4-	10/31/2008	0.5					**3.08**				**758.0**	**26.8**								
HA4-	10/31/2008	1					**3.2**				**302.0**	**40.7**								
HA5-	10/31/2008	0.5					**3.32**				**1,110.0**									
HA6-	10/31/2008	0.5					**5.48**				**181.0**									
HA6-	10/31/2008	1									**303.0**	**75.1**								
HA7-	10/31/2008	0.5					**1.71**				**106.0**									
HA7-	10/31/2008	1									**191.0**									
HA8-	10/31/2008	0.5					**3.21**				**217.0**									
HA8-	10/31/2008	1									**1,550.0**									
HA9-	10/31/2008	0.5									**161.0**									
HA9-	10/31/2008	1									**82.0**									
HA10	10/31/2008	0.5									**47.3**									
HA10	10/31/2008	1									**4.46**									
HA11	10/31/2008	0.5									**147.0**									
HA11	10/31/2008	3									**5.62**									
HA12	10/31/2008	0.5									**221.0**									
HA12	10/31/2008	3									**10.8**									
GS15	10/30/2008	12		**0.22**			**0.011**				**0.285**									
B2	4/16/2018	0.5		**7.45**																
B2	4/16/2018	2		**4.34**																
B3	4/16/2018	0.5					**10.7**				**722.0**									
B3	4/16/2018	2					**14.0**				**929.0**									
B3	4/16/2018	2					**18.5**				**1,250.0**									
B4	4/16/2018	0.5									**386.0**									
B4	4/16/2018	0.5									**417.0**									
B4	4/16/2018	2									**66.7**									
B5	4/16/2018	0.5		**4.82**																

Table 4 - Metals in Soil Summary
1510 East I Street, Wilmington, California

Boring ID	Date	Depth (ft)	*Sb*	*As*	*Ba*	*Be*	*Cd*	*Cr*	*Co*	*Cu*	*Pb*	*Pb STLC*	*Hg*	*Mo*	*Ni*	*Se*	*Ag*	*Th*	*V*	*Zn*
		DTSC-SL:	---	0.36	---	210	7.3	---	---	---	320	---	4.5	---	3,100	---	1,500	---	1,000	---
		USEPA RSL:	470	3.0	2.2E+5	2,300	980	---	350	47,000	800	---	46	5,800	22,000	5,800	5,800	12	5,800	1.7E+5
B5	4/16/2018	2		**4.64**																
B6	4/16/2018	0.5		**4.98**																
B6	4/16/2018	2		**4.68**																

1) All concentrations in mg/kg, except Lead STLC which are mg/L.

2) Blank values indicates not analyzed.

3) < indicates not detected at or above the noted detection limit.

4) (---) Not Applicable.

5) Bold concentration equals or exceeds laboratory reporting limit.

6) DTSC-SL is California Department Toxic Substances Control (DTSC) Modified Screening Level (SL), Human and Ecological Risk Office Note Number 3 (HERO 3), January 2018 for industrial soil.

7) USEPA RSL is United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs), November 2017 for industrial soil.

8) Underlined value indicates concentration exceeds the more stringent of the DTSC-SL and USEPA RSL values.

9) Green value indicates concentration exceeds the Los Angeles Unified School Distirct acceptable arsenic concentration of 11.32 mg/kg.

Sb - Antimony
As - Arsenic
Ba - Barium
Be - Beryllium
Cd - Cadmium
Cr - Chromium
Co - Cobalt
Cu - Copper
Pb - Lead
Hg - Mercury
Mo - Molybdenum
Ni - Nickel
Se - Selenium
Ag - Silver
Th - Thallium
V - Vanadium
Zn - Zinc

Table 5 - PCB in Soil Summary (ug/kg)
1510 East I Street, Wilmington, California

Boring ID	Depth (feet)	Date Sampled	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262
		DTSC-SL:	---	---	---	---	---	---	---	---
		USEPA RSL:	27,000	830	720	950	950	970	990	---
GS1	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS2	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS3	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS4	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**73.0**	< 50.0	< 50.0
GS5	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**81.0**	< 50.0	< 50.0
GS6	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**74.0**	< 50.0	< 50.0
GS7	0.5	10-12-07	< 250.0	< 250.0	< 250.0	< 250.0	**1,800.0**	**990.0**	< 250.0	< 250.0
GS8	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS9	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS10	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS11	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS12	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS13	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	**63.0**	**64.0**	< 50.0	< 50.0
GS13	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS14	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS14	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS15	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS15	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS16	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS16	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS17	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**88.0**	< 50.0	< 50.0
GS17	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS18	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	**300.0**	**340.0**	< 50.0	< 50.0
GS18	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS19	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**68.0**	< 50.0	< 50.0
GS19	1.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**120.0**	< 50.0	< 50.0
GS20	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	**97.0**	**94.0**	< 50.0	< 50.0
GS20	1.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS21	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS21	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS22	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS22	1.0	10-30-08	< 250.0	< 250.0	< 250.0	< 250.0	**2,100.0**	**1,100.0**	< 250.0	< 250.0
GS23	0.5	10-30-08	< 100.0	< 100.0	< 100.0	< 100.0	**1,600.0**	**590.0**	< 100.0	< 100.0
GS23	1.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS23	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS24	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**120.0**	< 50.0	< 50.0

Table 5 - PCB in Soil Summary (ug/kg)
1510 East I Street, Wilmington, California

Boring ID	Depth (feet)	Date Sampled	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262
		DTSC-SL:	---	---	---	---	---	---	---	---
		USEPA RSL:	27,000	830	720	950	950	970	990	---
GS24	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS25	5.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS25	10.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS26	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS26	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS27	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS27	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS28	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	**220.0**	< 50.0	< 50.0	< 50.0
GS28	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS29	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS29	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS30	0.5	10-31-08	< 500.0	< 500.0	< 500.0	< 500.0	**4,400.0**	< 500.0	< 500.0	< 500.0
GS30	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS31	0.5	10-31-08	< 5,000.0	< 5,000.0	< 5,000.0	< 5,000.0	**33,000.0**	< 5,000.0	< 5,000.0	< 5,000.0
GS31	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	**320.0**	< 50.0	< 50.0	< 50.0
HA6-	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
HA6-	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	**440.0**	**320.0**	< 50.0	< 50.0
HA7-	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
HA7-	1.0	10-31-08	< 250.0	< 250.0	< 250.0	< 250.0	< 250.0	**2,100.0**	< 250.0	< 250.0
HA8-	0.5	10-31-08	< 100.0	< 100.0	< 100.0	< 100.0	**1,900.0**	**850.0**	< 100.0	< 100.0
HA8-	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	**540.0**	< 50.0	< 50.0	< 50.0
B4	0.5	04-16-18	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	**190.0**	**160.0**	
B4	0.5	04-16-18	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	**230.0**	**170.0**	
B4	2.0	04-16-18	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	
B6	0.5	04-16-18	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	
B6	2.0	04-16-18	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	

1) < indicates not detected at or above the noted detection limit.
2) Blank value indicates not analyzed.
3) (---) Not Applicable.
4) Bold indicates concentration equals or exceeds laboratory reporting limit.
5) DTSC-SL is California Department of Toxic Substances Control (DTSC) Modified Screening Level (SL), Human and Ecological Risk Office Note Number 3 (HERO 3), January, 2018 for industrial soil.
6) USEPA RSL is United States Environmental Protection Agency (USEPA) Regional Screening Level (RSL), November 2017 for industrial soil.
7) Underlined value indicates concentration exceeds the stringent of the DTSC-SL and USEPA RSL.

1517-1519 AND 1520 EAST I STREET BASELINE ENVIRONMENTAL ASSESSMENT WILMINGTON, CALIFORNIA

APP 160720-109

Prepared for
City of Los Angeles Harbor Department

June 15, 2018

Prepared by

PARSONS
100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

1517-1519 and 1520 East I Street Baseline Investigation
WILMINGTON, CALIFORNIA
APP 160720-109

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Reviewed by: _____ 6/15/18

Carrie Crozier, PG — Date

Reviewed by: _____ 6/15/18

Jim Goepel
Project Manager — Date

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ACRONYMS

ASTM	American Society for Testing and Materials
bgs	below ground surface
DOT	Department of Transportation
DTSC	Department of Toxic Substances Control
DWR	Department of Water Resources
EB	Equipment Blank
EMAX	EMAX Laboratories, Inc.
EMD	Environmental Management Division
EPA	Environmental Protection Agency
ft	feet
IDW	investigation-derived waste
ILWU	International Longshore and Warehouse Union
L	Liter
LACDPH	Los Angeles County Department of Public Health
LAHD	City of Los Angeles Harbor Department
LNAPL	Light non-aqueous phase liquid
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
PAH	Polyaromatic hydrocarbon
PCB	Polychlorinated biphenyl
PID	photoionization detector
ppm	parts per million
PVC	polyvinyl chloride
RCRA	Resources Conservation and Recovery Act
RSL	risk screening level
Site	1517 to 1520 East I Street
STLC	Solubility threshold leaching characteristic
TB	Trip Blank
TCLP	Toxicity characteristic leaching procedure
TPH	Total petroleum hydrocarbons
TPHd	Total petroleum hydrocarbons as diesel (C13-C22)
TPHg	Total petroleum hydrocarbons as gasoline (C5-C12)
TPHmo	Total petroleum hydrocarbons as motor oil (C23-C40)
VMP	vapor monitoring probe
VOCs	volatile organic compounds

1.0 INTRODUCTION

This *East I Street Parcels Baseline Investigation* was prepared by Parsons on behalf of the City of Los Angeles Harbor Department (LAHD) Environmental Management Division (EMD). This report documents the procedures and results for the installation of five temporary groundwater monitoring wells and a depth-discreet soil and soil gas investigation at the site which consists of two vacant properties (Site) located at 1517-1519 East I Street (north of I Street), and 1520 East I Street (south of I Street), in Wilmington, California (**Figure 1**). This work was conducted to provide a baseline assessment for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), metals and polychlorinated biphenyl (PCBs). The Site is vacant and unpaved with minimal vegetation and is divided by the 1500 block of East I Street which runs approximately east-west.

The sampling was implemented at the request of EMD to provide baseline soil, soil gas, and groundwater concentrations prior to leasing the properties. Previous investigations of the southern property including *Phase I Environmental Site Assessment* (Pacific Edge Engineering, 2007) and a *Supplemental Subsurface Investigation Report* (Pacific Edge Engineering, 2009) indicate TPH, VOCs, metals, and PCB-impacted soil, TPH and VOC-impacted groundwater, and VOC and methane-impacted soil gas. The scope of the baseline site assessment was developed with EMD to evaluate changes in site contaminant concentrations since 2009 for the southern property and provide a summary of current site conditions for both properties prior to leasing the property.

1.1 Site Background

The Site is located in Wilmington, California (**Figure 1**). The surrounding area consists of industrial and commercial use properties. Two properties within a quarter mile of the Site have open environmental cases. A Texaco service station to the south at 1625 Anaheim Street has active remediation for TPH as gasoline (TPHg). The International Longshore and Warehouse Union (ILWU) Local 13 Dispatch Hall Project to the south at 1500 East Anaheim Street is in post-remediation monitoring for petroleum impacts to soil, groundwater and soil gas. These cases are downgradient to crossgradient from the Site.

Historically, the southern property (1520 E I Street) was used as a salvage and storage yard for automobiles, boats and recreational vehicles. In 2007 a Phase I Environmental Assessment was conducted by Pacific Edge Engineering Inc. (PEE) and found an oil well and above-ground storage tanks located on Site from 1955 through at least 2007. The oil well was removed after 2007. Soil impacts including TPH, metals, and PCBs from automobiles, boats and recreational vehicle scrap yard activities have been detected on-site. The northern property (1517-1519 E I Street) has remained undeveloped and unused, although some historical topographic maps indicate that there may have been an oil well located near the eastern property boundary. No previous environmental investigations of the northern property were identified. Both properties are currently unpaved lots with no aboveground structures (**Figure 2**).

1.2 Site Hydrogeologic Conditions

The lithology at the Site is discontinuous layers of sand and silt with occasional clay and gravel. The top of a continuous fine gray sand was encountered between 8 and 14 feet (ft) below ground surface (bgs) in borings on both properties. Groundwater is generally within the light gray sand at approximately 10 ft bgs; groundwater was detected as shallow as 9.5 ft bgs and as deep as 14 ft bgs. Groundwater in the Site vicinity is designated as beneficial for municipal, agricultural, industrial, and industrial process

water. Depth to water in groundwater wells near the Site typically ranges from between 6.7 to 12.5 ft bgs. The groundwater gradient is generally to the southwest (GeoTracker, 2018).

1.3 Chemicals of Potential Concern

The chemicals of potential concern based on site history and previous investigations include: petroleum hydrocarbons, VOCs, PAHs, metals (including arsenic, cadmium, lead), and PCBs. According to the Phase II Supplemental Subsurface Investigation Report (Pacific Edge Engineering, 2009), several of these contaminants were detected above acceptable regulatory screening levels (industrial preliminary remediation goals (PRG), California Human Health Screening Levels (CHHSL), Maximum Contaminant Level (MCL), and hazardous waste levels) on the southern property.

2.0 OBJECTIVES AND WORKSCOPE

The objectives of this scope were to provide a baseline assessment of soil, groundwater, and soil gas conditions including concentrations of TPH, VOCs, PAHs, metals and PCBs.

1. Soil was sampled from 16 borings ranging in total depth from 5 to 15 ft bgs (**Figures 3 through 5**).
    a. Six soil boring locations on the southern property (B1 to B6) were selected based on historical site data. Samples were collected to assess changes to TPH concentrations since the 2008 sampling event, and to further define the extent of historical detections of metals, PAHs, and PCBs.
    b. No historical data existed for the northern property, therefore a grid of approximately 50 by 50-foot cells was developed. The soil boring locations on the northern property (B7 to B15) were biased to collect samples from the lowest surface point within each cell, otherwise the soil sample location was approximately the center of the cell.
2. Groundwater samples were collected from temporary groundwater monitoring wells installed in B1 and B2 on the southern parcel, and B7, B11, and B14 on the northern parcel (**Figures 6 and 7**). An attempt was made to collect a groundwater sample from B2 and is discussed in detail in Section 3.3 below.
3. Soil gas samples were collected by installing soil vapor probes with screens at 5 ft bgs. Soil vapor probes were installed at boring locations B-1, B-2 and SG-2 on the southern property and B8, B10, B12, and B14 on the northern property (**Figure 8**).

The following sections describe the investigative methods and procedures, sample analysis program, sample handling, decontamination procedures, and management of investigation-derived wastes (IDW). Site work was conducted in accordance with the *Parsons Health, Safety, Security, and Environmental Plan* (2018).

Field work was implemented in accordance with California Department of Water Resources (DWR) Bulletin 74-90 and County of Los Angeles requirements.

2.1 Pre-Drilling Procedures

Prior to field mobilization and temporary monitoring well installation, approved monitoring well permits were obtained from the County of Los Angeles Department of Public Health (DPH). Copies of the approved monitoring well permits are provided in **Appendix A**. The temporary monitoring wells were installed in accordance with applicable Los Angeles County requirements.

Prior to drilling and well installation, boring locations were geophysically surveyed for underground utilities and other potential subsurface structures by Geovision, a licensed geophysical survey contractor based in Corona, California. White paint and stakes were placed on the ground at each proposed drilling location and Underground Services Alert was notified a minimum of 48 hours in advance of drilling operations. Prior to drilling, the proposed drilling locations were cleared a minimum of five feet bgs using a hand auger.

2.2 Soil Borings and Soil Sample Collection

Fifteen borings were advanced using a limited-access direct push drill rig by Gregg Drilling and Testing, Inc. Sampling was conducted with a 2-inch diameter direct push rod lined with an acetate sleeve. Samples were continuously cored in 48-inch intervals. One soil boring (SG-2) was advanced to total depth of 5 ft bgs using a hand auger. The borings were continuously sampled and logged below a depth of 5 ft bgs. The field geologist prepared boring logs (**Appendix B**) in the field, and recorded information which included the boring and sample identification and location, date and time, sample depth, lithologic description in accordance with the United Soil Classification System, description of any visible evidence of soil impacts (e.g., odor, staining), and organic vapor readings.

Soil samples for chemical analyses by a fixed laboratory were collected during drilling at approximately 0.5, 2, 5, 10, and 15 feet bgs. Samples were collected by opening the acetate sleeves and placing soil into the laboratory-provided sample container. TPHg and VOC samples were collected in Terracore sampling kits. All soil sample containers were labeled and placed in sealed plastic bags, which were then placed in a cooler with ice for shipment to the analytical laboratory. Soil samples were transported under chain-of-custody to EMAX Laboratories, Inc. (EMAX), a California Department of Health Services-certified laboratory, in Torrance, California. EMAX's Analytical Laboratory Reports are included as **Appendix C**.

A Mini-Rae® 3000 photoionization detector (PID) was calibrated daily with 100 parts per million (ppm) isobutylene gas. The PID was used to monitor the presence and concentration of organic vapors in the borings and to screen soil samples, as well as breathing space around the borehole.

For field screening of soil samples for VOCs by headspace screening, PID was held approximately 3 inches from the core at 6-inch intervals to evaluate soil concentrations between sampling intervals. At sampling intervals, soil was placed into a resealable plastic bag. Each bag was allowed to sit exposed to the sun for approximately 5 minutes, at which time the VOC concentration in the headspace was measured by inserting the PID probe inside the plastic bag. The PID readings were recorded on the boring logs prepared by the field geologist during drilling activities.

Soil cuttings generated during drilling were placed in a properly labeled Department of Transportation (DOT) approved 55-gallon drum. The drum will be removed from the Site for proper offsite disposal.

2.3 Temporary Well Drilling and Construction

The five temporary monitoring wells were drilled to 15 feet bgs. The temporary monitoring wells were constructed with 3/4-inch diameter, flush-jointed and threaded, Schedule 40 polyvinyl chloride (PVC) casing, and screen. The screens were capped at the bottom with a threaded end cap. All well materials (e.g., riser pipe, screen, end cap, etc.) were kept clean prior to down-hole placement. Screen intervals in all temporary wells extended from 10 to 15 ft bgs.

Groundwater samples were collected from the temporary wells in borings B1, B7, B11, and B14 with a disposable bailer, and placed in laboratory-provided glassware. Grab groundwater samples were analyzed by EMAX for TPH, VOCs for all wells and PAHs for B7, B11, and B14. An attempt was made to collect groundwater samples from a temporary well in boring B2, however globules of light non-aqueous phase liquid (LNAPL) were observed in the bailer. At the completion of sampling, the temporary well point was removed from the boring, and the boring was grouted from the bottom up via tremie pipe with a cement/bentonite grout.

2.4 Soil Gas Probe Construction

Temporary soil gas probes B1-5, B2-5, B8-5, B10-5, B12-5, B14-5, and SG7-5 were installed as temporary vapor monitoring probes (VMPs). A 2-inch long polyethelyene soil gas probe tip was connected to ¼-inch outer diameter Nylaflow tubing, which extended from ground surface to approximately 5 ft bgs. The screens were centered within approximately 1 foot of #2/12 sand so that approximately 5 inches of sand extends above and below the screen. One foot of dry granular bentonite was placed immediately above each sand interval and then topped with hydrated bentonite chips. The vapor monitoring probes were allowed to equilibrate at least 48 hours prior to leak testing, purging, and sampling. The probes were sampled in accordance with *Department of Toxic Substances Control (DTSC) 2015 Advisory – Active Soil Gas Investigations* (DTSC, 2015).

2.5 Soil Vapor Sampling and Analysis

Prior to purging and sampling, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. If there was any observable loss of vacuum, the fittings were adjusted until the vacuum did not change during the shut-in test.

Prior to purging and sampling, a tracer gas mixture of n-pentane, n-hexane, or n-heptane was placed at the surface next to the tubing to determine if there were any leaks into the subsurface due to improper installation of the probe. No leak detection compound was detected in any of the soil gas samples.

Purge volumes were calculated for each sample probe using the volume of the soil vapor probe, filter pack, dry granular bentonite, and all tubing in the purge/sampling train from the inlet probe to the purge pump. Three purge volumes were removed prior to collecting each vapor sample. The sampling rate was approximately 200 milliliters per minute.

Soil vapor was collected in glass gas-tight syringes equipped with Teflon plungers. The soil gas VOC samples were analyzed by Jones Environmental Laboratory (Jones) mobile laboratory on-site using Environmental Protection Agency (EPA) Method 8260B. Methane samples were collected in 1 liter (L) Tedlar bags and submitted to Jones's fixed laboratory for analysis and analyzed using American Society for Testing and Materials (ASTM) D1946 for Methane (**Appendix D**). Soil gas laboratory analyses were conducted in accordance with DTSC guidelines. One replicate soil vapor sample was collected from B1-5.

3.0 RESULTS

3.1 Lithology

The lithology at the Site is discontinuous layers of sand and silt with occasional clay and gravel. The top of a continuous fine gray sand was encountered between 8 and 14 ft bgs in borings on both properties. Groundwater is generally within the light gray sand at approximately 10 ft bgs, groundwater was detected as shallow as 9.5 ft bgs and as deep as 14 ft bgs. The lithology encountered above is consistent with previous investigative work in the local area.

3.2 Soil Analytical Results

Fifty-four primary soil samples and five duplicate soil samples were collected between the surface and 15 ft bgs. The soil samples were analyzed by EMAX for TPH by EPA Method 8015, VOCs by EPA Method 8260B, Metals by EPA Method 6010, Mercury by EPA Method 7471A, PCBs by EPA Method 8082, and PAHs by EPA Method 8270C-SIM. Copies of the certified analytical laboratory reports are provided in **Appendix C**. Analytical data are tabulated on **Tables 1 through 6** and displayed on **Figures 3 through 5**. Detections of chemicals of potential concern in soil were compared to the DTSC industrial soil Screening Levels from Note 3 (DTSC, 2018) and the EPA (2018) industrial soil Regional Screening Levels (RSLs). TPH concentrations were compared to San Francisco Regional Water Quality Control Board Environmental Tier 1 Screening Levels (SFRWQCB ESLs). The following compounds were detected in the soil above the screening levels during this investigation:

- Total petroleum hydrocarbons as diesel (TPHd) was detected above the SFRWQCB ESL of 1,078 milligrams per kilogram (mg/kg) in boring B2 at 5, 10 and 15 ft bgs. The maximum concentration was 8,600 mg/kg TPHd at 10 ft bgs (**Table 1**).
    - At the northern property, TPH in soil does not exceed screening levels.
    - At the southern property TPH in soil is above SFRWQCB screening criteria near boring B2 and has historically been detected near both of the former ASTs at the property (Pacific Edge Engineering, 2009).
- Arsenic exceeded the DTSC background level for Southern California of 12 mg/kg (DTSC, 2008) in 14 samples analyzed with concentrations ranging from 12.8 to 86.5 mg/kg (**Table 3**).
    - At the northern property, arsenic in soil exceeds the DTSC background concentration of arsenic in soil at all boring locations except B7 and B15. Arsenic in soil exceeds the background level between the surface and 2 ft bgs in B8 through B14. Arsenic in soil exceeds the background level as deep as 10 ft bgs in B9, B13, and B14. Arsenic did not exceed the background level in the three 15 ft bgs soil samples from the northern property.
    - At the southern property arsenic in soil does not exceed the DTSC background concentration of arsenic in soil of 12 mg/kg.
- There were three detections of cadmium above the DTSC industrial soil screening level of 7.3 mg/kg in B3 from 0.5 to 2 ft bgs with concentrations ranging from 10.7 to 18.5 mg/kg. These samples are vertically delineated by a concentration of 0.396 J mg/kg at 5 ft bgs in B3 (**Table 3**).
    - At the northern property cadmium in soil does not exceed the industrial screening level (Figure 4).

- At the southern property, current and historical concentrations indicate that cadmium in soil exceeds the screening level in the central portion of the Site between Lots 15 and 18, and in the eastern portion of Lot 13.

- Lead exceeds the DTSC industrial soil screening level of 320 mg/kg in five samples from B3 and B4 with concentrations ranging from 386 to 1,250 mg/kg from the surface to 2 ft bgs (**Table 3**).
  - At the northern property lead in soil does not exceed the industrial screening level.
  - At the southern property, the exceedances are vertically delineated by concentrations below the screening level at 5 ft bgs in B3 and B4. Consistent with historical data, lead exceeding the screening level is present in the central portion of the Site, and along the southern portion of the Site in Lots 12 and 13.
- Mercury exceeds the DTSC industrial soil screening level of 4.5 mg/kg in B11 (northern property) at 0.5 ft bgs with a concentration of 38.6 mg/kg. No other sample exceeded the screening level for mercury (**Table 3**).
- Soluble Threshold Limit Concentration (STLC) analysis was run for cadmium, chromium, copper, lead, and mercury to determine whether the soil from the Site would be considered a California Hazardous waste. Cadmium from B3-2D at 2 ft bgs, lead from B3-2D, B4-0.5, B10-0.5, B11-0.5, and B14-0.5 ft bgs, and mercury from B11-0.5 ft bgs exceeded the STLC criteria. Based on the data obtained, soil from the top two feet at both properties may be characterized as California hazardous waste. California hazardous concentrations of lead were detected across both properties; California hazardous concentrations of cadmium and mercury in were limited to a portion of the southern parcel.
- Toxicity Characteristic Leaching Procedure (TCLP) analysis was run for lead concentrations in B3-2D and B4-0.5 (southern property), concentrations ranged from 0.343 to 2.72 milligram per liter (mg/L) which are under the TCLP level of 5 mg/L for lead. Thus, no site soils would be characterized as RCRA Hazardous waste.
- VOCs, PCBs, and PAHs were below EPA and DTSC industrial soil screening levels in all samples from this investigation (**Tables 2, 4, and 5**). No further assessment of these compounds is warranted at the northern property.
  - PCBs were historically detected above EPA industrial soil screening levels at the southern property, in the southern portion of the site in Lots 12, 13, 20 and in the central portion of the site. Analytical results from this investigation adequately define the extent of PCBs at the Site.
  - VOCs and PAHs detected in soil at the southern property detected during this and during previous investigations (Pacific Edge Engineering, 2009) were below current EPA and DTSC industrial screening levels.

3.3 Groundwater Analytical Results

Four grab groundwater samples were collected from temporary wells. The groundwater samples were analyzed by EMAX for TPH by EPA Method 8015, VOCs by EPA Method 8260B, and PAHs by EPA Method 8270SIM. Copies of the certified analytical laboratory reports are provided in **Appendix C**.

Analytical data are tabulated on **Tables 7 and 8** and displayed on **Figures 6 and 7**. Detections of chemicals of potential concern in groundwater were generally J flagged low-concentration detections. The only constituent that exceeded the SFRWQCB Tier 1 ESLs is TPHd with a maximum concentration of 1.0 mg/L compared to the ESL of 0.1 mg/L. The following compounds were detected in grab groundwater samples during this investigation:

- Total petroleum hydrocarbons (TPH) was detected ranging from 1.31 to 1.93 mg/L.
    - TPH at the northern property was widespread, and no source for dissolved TPH was identified.
    - TPH at the southern property has changed since the 2009 sampling event. A TPH concentration of 34 mg/L at GS27 in 2008 near the western former ASTs, but lower at a concentration of 1.74 mg/L in a nearby temporary well B1 during this investigation. In the vicinity of the eastern AST, TPH concentration detected in the 2008 sample was 0.140 mg/L, and LNAPL globules were detected at B2 during this investigation. The driver for the change is TPH in groundwater distribution has not been identified.
- VOC detections include toluene (0.29 J µg/L), acetone (up to 13 J µg/L), cis-1,2-dichloroethene (0.38 J µg/L), and MTBE (0.27 J µg/L). No other VOCs were detected in groundwater. VOCs detected in groundwater do not exceed ESLs at either property.
- A single detection of 0.022 J µg/L phenanthrene was the only PAH detected in groundwater. No PAH detections exceed ESLs.

3.4 Soil Vapor Analytical Results

Soil gas samples B1, B2, B8, B10, B12, B14, and SG7 were analyzed for VOCs by TAL using EPA Method 8260B and methane using ASTM D1946. For screening purposes, the soil gas results were compared to US EPA RSLs for industrial soil gas for VOCs and City of Los Angeles Methane requirements. The following compounds were detected in the soil gas samples collected during this investigation:

- Isopropylbenzene, n-propylbenzene, and sec-butylbenzene were detected in the soil-gas sample at B2-5. No other VOCs were detected in the soil gas samples. No VOCs in soil gas exceed the EPA RSL for industrial soil gas. The highest VOC soil gas concentration was 0.566 µg/L sec-butylbenzene detected at B2 at 5 ft bgs. Petroleum odor, staining, and LNAPL globules were noted in this boring during soil and groundwater sampling.
- Methane was detected at a concentration of 0.1% in B2-5; this is equal to the City of Los Angeles Department of Building Safety (LADBS, 2009) criteria for methane mitigation if an aboveground structure is to be constructed in this area. Methane was not detected in any other soil gas samples.

Table 9 summarizes soil gas analytical results which are also depicted on **Figure 8**. Copies of the CoC form and certified laboratory analytical report are included in **Appendix D**.

The leak check compound of n-pentane, n-hexane, and n-heptane was analyzed by EPA Method 8260B. The leak check compound was not detected in the soil gas samples.

3.5 Data Quality Assurance/Quality Control

Three trip blanks (TB) and one equipment blank (EB) samples were submitted to the analytical laboratory for VOC analysis using EPA Method 8260B. The laboratory reported no VOC detections above the respective compounds laboratory reporting limits in the TB and EB water samples. The EB was also analyzed for TPH, metals, and PAHs, a single detection of 0.014 J mg/L TPHg was detected in the EB sample. The laboratory data were reviewed and are considered useable from a decision-making perspective.

4.0 CONCLUSIONS

4.1 Summary

This report documents the baseline sampling work conducted in April 2018 to assess potential constituents of concern in soil, soil gas and groundwater. This investigation included the installation of five temporary groundwater monitoring wells, 16 soil borings, and seven temporary soil gas probes. Detections of metals in soil occurred on both properties, and with the exception of arsenic, metals above industrial screening levels are generally limited to the top two feet.

TPH was detected in soil on the southern property, and in groundwater at both properties. LNAPL globules and methane at levels of potential concern were detected at boring B2 on the southern property.

Historical detections of PCBs in soil were defined on the southern property during this investigation.

4.2 Conclusions

Southern Property

Based on review of the site characterization data collected to date for the southern property, the soil from the center portion of the Site and Lots 12 and 13 are impacted from the surface to 2 ft bgs with a variety of chemicals of concern including metals (cadmium and lead) and PCBs at concentrations exceeding industrial-use screening criteria. Analytical data indicate that lead concentrations in these areas are indicative of a California Hazardous Waste (non-RCRA Hazardous) when removed/excavated. TPH in soil at the southern property has been detected historically from near the surface to 10 ft bgs at the western former AST, but was not detected during the 2018 assessment. TPH in soil was detected from the surface to 15 ft bgs near the eastern AST in 2018. LNAPL globules and elevated methane soil gas concentrations were also detected near the eastern AST in 2018. Methane concentrations at B2 are equal to the City of Los Angeles mitigation threshold. Additional methane investigation to comply with City requirements will be needed if a structure will be built over this area.

Northern Property

Based on review of the site characterization data collected to date from the northern property, the soil in the top 2 ft bgs is impacted with metals (arsenic and mercury) at concentrations above industrial soil screening levels. Deeper soils (to at least 10 ft bgs) are also locally impacted with arsenic at concentrations above the DTSC background concentration in Southern California (12 mg/kg). Elevated arsenic concentrations have been detected to a total depth of 10 ft bgs. Analytical data indicate that lead concentrations in these areas are indicative of a California Hazardous Waste (non-RCRA Hazardous) when removed/excavated.

5.0 REFERENCES

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TABLES

Table 1 -Summary of TPH in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	Total TPH	TPH-g (8015)	TPH-d (8015)	TPH-mo (8015)
Units		mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**SFRWQCB**	NA	**3875**	**1078**	**139,513**
South Parcel					
B1-0.5	4/16/2018	659	23	46 J	590
B1-2.0	4/16/2018	ND	ND	--	--
B1-5.0	4/16/2018	ND	ND	--	--
B1-10.0	4/16/2018	ND	ND	--	--
B1-15.0	4/16/2018	ND	ND	--	--
B2-0.5	4/16/2018	1180	0.95 J	79	1100
B2-2	4/16/2018	1330	ND	130	1200
B2-5	4/16/2018	14150	450	**7000**	6700
B2-10	4/16/2018	17290	790	**8600**	7900
B2-15	4/16/2018	11370	670	**5500**	5200
B3-0.5	4/16/2018	730	ND	30	700
B3-2	4/16/2018	470	ND	20 J	450
B3-2D	4/16/2018	604	ND	34	570
B4-0.5	4/16/2018	2211	1.4	210	2000
B4-0.5D	4/16/2018	1550	ND	150	1400
B4-2	4/16/2018	261	ND	21	240
North Parcel					
B7-0.5	4/17/2018	ND	ND	ND	ND
B7-2	4/17/2018	ND	ND	ND	ND
B7-5	4/17/2018	ND	ND	ND	ND
B7-10	4/17/2018	ND	ND	ND	ND
B7-15	4/17/2018	ND	ND	ND	ND
B8-0.5	4/17/2018	815	ND	65	750
B8-2	4/17/2018	ND	ND	ND	ND
B8-5	4/17/2018	ND	ND	ND	ND
B8-10	4/17/2018	ND	ND	ND	ND
B9-0.5	4/17/2018	267	ND	7.1 J	260
B9-2	4/17/2018	140	ND	ND	140
B9-5	4/17/2018	ND	ND	ND	ND
B9-10	4/17/2018	ND	ND	ND	ND
B10-0.5	4/17/2018	169	ND	8.9 J	160
B10-2	4/17/2018	182	ND	12	170
B10-5	4/17/2018	2180	ND	180	2000
B10-10	4/17/2018	ND	ND	ND	ND
B11-0.5	4/18/2018	359	ND	19	340
B11-2	4/18/2018	157	ND	6.9 J	150
B11-5	4/18/2018	690	ND	ND	690
B11-10	4/18/2018	ND	ND	ND	ND

Table 1 -Summary of TPH in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	Total TPH	TPH-g (8015)	TPH-d (8015)	TPH-mo (8015)
Units		mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**SFRWQCB**	NA	**3875**	**1078**	**139,513**
B11-15	4/18/2018	ND	ND	ND	ND
B12-0.5	4/18/2018	307	ND	27	280
B12-2	4/18/2018	283	ND	13	270
B12-5	4/18/2018	72	ND	ND	72
B12-10	4/18/2018	ND	ND	ND	ND
B13-0.5	4/18/2018	130	ND	ND	130
B13-2	4/18/2018	172	ND	12	160
B13-5	4/18/2018	ND	ND	ND	ND
B13-10	4/18/2018	ND	ND	ND	ND
B14-0.5	4/17/2018	2135	ND	35 J	2100
B14-2	4/17/2018	951	ND	41 J	910
B14-5	4/17/2018	ND	ND	ND	ND
B14-10	4/17/2018	ND	ND	ND	ND
B14-15	4/17/2018	ND	ND	ND	ND
B15-0.5	4/17/2018	110	ND	ND	110
B15-2	4/17/2018	99	ND	ND	99
B15-5	4/17/2018	ND	ND	ND	ND
B15-10	4/17/2018	37	ND	ND	37

Notes:
Shaded cell indicates detection above the lower of the SFRWQCB Tier 1 ESLs.

J = concentration below reporting limit
mg/kg = milligrams per kilogram
ND = Non-detect
Total TPH = Total Petroleum Hydrocarbons, which was calculated as the sum of the results for TPH C5-C12, C13-C22, and C23-C40 by EPA Method 8015M.
TPH-g = Total Petroleum Hydrocarbons as gasoline (C5-C12)
TPH-d = Total Petroleum Hydrocarbons as diesel (C13-C22)
TPH-mo = Total Petroleum Hydrocarbons as motor oil (C23-C40)

Table 2 - Summary of VOCs in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	1,1,1,2-TETRACHLOROETHANE	1,1,1-TRICHLOROETHANE	1,1,2,2-TETRACHLOROETHANE	1,1,2-TRICHLOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	1,1-DICHLOROPROPENE	1,2,3-TRICHLOROBENZENE	1,2,3-TRICHLOROPROPANE	1,2,4-TRICHLOROBENZENE	1,2,4-TRIMETHYLBENZENE	1,2-DIBROMO-3-CHLOROPRO	1,2-DIBROMOETHANE	1,2-DICHLOROBENZENE	1,2-DICHLOROETHANE	1,2-DICHLOROPROPANE	1,3,5-TRIMETHYLBENZENE	1,3-DICHLOROBENZENE	1,3-DICHLOROPROPANE	1,4-DICHLOROBENZENE	2-BUTANONE	2-CHLOROTOLUENE	2-HEXANONE	4-CHLOROTOLUENE	ACETONE	BENZENE
Units[1]		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**RSL**	**8.8**	36000	**2.7**	**5**	**16**	**1000**	-	930	0.11	**110**	**1800**	**0.064**	**0.16**	**9300**	**2**	**11**	**1500**	-	23000	**11**	**190000**	23000	**1300**	23000	**670000**	5.1
	DTSC	8.9	**7300**	**2.7**	-	**16**	-	-	**310**	**0.021**	-	-	-	**0.16**	-	-	-	-	-	**2200**	-	-	**2600**	-	**2300**	-	**1.4**
		South Parcel																									
B1-5.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014	ND
B1-10.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0088 J	ND
B1-15.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0065 J	ND
SG-2-5	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.031	ND
		North Parcel																									
B7-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0082 J	ND	ND	ND	0.061	ND
B7-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0098	ND
B7-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.037	ND
B7-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0064 J	ND
B8-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0067 J	ND	ND	ND	0.051	ND
B8-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014	ND
B8-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.038	ND
B9-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0014 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0079 J	ND	ND	ND	0.068	0.0019 J
B9-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.017	ND
B9-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0078 J	ND
B10-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0024 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006 J	ND	ND	ND	0.065	0.0022 J
B10-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.035	0.0016 J
B10-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0071 J	ND	ND	ND	0.084	0.0022 J
B11-2	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011 J	ND	ND	ND	0.1	0.0031 J
B11-5	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.016	ND	ND	ND	0.13	0.002 J
B11-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011 J	0.0017 J
B11-15	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B12-2	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0046 J	ND	ND	ND	ND	ND	0.0017 J	ND	ND	ND	0.01 J	ND	0.0091 J	ND	0.087	0.0012 J
B12-5	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.019	0.0013 J
B12-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011 J	ND
B13-2	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.026	ND
B13-5	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.016	ND
B13-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.046	ND
B14-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0067 J	ND	ND	ND	0.044	0.003 J
B14-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.026	ND
B14-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011	ND
B14-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0084 J	ND
B15-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0089 J	ND	ND	ND	0.071	0.0056
B15-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.039	ND
B15-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011	ND

Notes
Shaded cell indicates detection above the lower of the EPA RSL and the DTSC Note 3.
J = concentration below reporting limit
mg/kg = milligrams per kilogram
ND = Non-detect
[1] - analytical results for VOCs are reported in units of micrograms per kilogram (µg/kg) in the laboratory reports (Appendix C).

Table 2 - Summary of VOCs in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	BROMOBENZENE	BROMOCHLOROMETHANE	BROMODICHLOROMETHANE	BROMOFORM	BROMOMETHANE	CARBON DISULFIDE	CARBON TETRACHLORIDE	CHLOROBENZENE	CHLOROETHANE	CHLOROFORM	CHLOROMETHANE	CIS-1,2-DICHLOROETHENE	CIS-1,3-DICHLOROPROPENE	DIBROMOCHLOROMETHANE	DICHLORODIFLUOROMETHANE	ETHYLBENZENE	ISOPROPYL BENZENE	M,P-XYLENES	MIBK	METHYLENE CHLORIDE	MTBE	NAPHTHALENE	N-BUTYLBENZENE	N-PROPYLBENZENE	O-XYLENE	P-ISOPROPYLTOLUENE	SEC-BUTYLBENZENE	STYRENE	TERT-BUTYLBENZENE
Units[1]		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**RSL**	**1800**	**630**	**1.3**	**86**	**30**	**3500**	2.9	**1300**	**57000**	**1.4**	**460**	2300	8.2	39	**370**	**25**	**9900**	**2400**	**140000**	1000	**210**	**17**	58000	**24000**	**2800**	-	120000	**35000**	120000
	DTSC	-	-	**1.3**	87	-	-	**0.43**	-	-	-	-	**86**	**2.6**	**4.2**	-	-	-	-	-	**24**	-	-	**6400**	-	-	-	**12000**	-	**12000**
		South Parcel																												
B1-5.0	4/16/2018	ND	ND	ND	0.0064	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B1-10.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B1-15.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SG-2-5	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		North Parcel																												
B7-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-2	4/17/2018	ND	ND	ND	ND	0.0022 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-2	4/17/2018	ND	ND	ND	ND	ND	0.0037 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0028 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10-2	4/17/2018	ND	ND	ND	ND	ND	0.002 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011 J	ND	0.0052 J	ND	ND	ND	ND	ND	ND	ND	0.002 J	ND	ND	ND
B10-5	4/17/2018	ND	ND	ND	ND	ND	0.0013 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B11-2	4/18/2018	ND	ND	ND	ND	ND	0.0056 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0031 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B11-5	4/18/2018	ND	ND	ND	ND	ND	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B11-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B11-15	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B12-2	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0047 J	ND	ND	ND	ND	ND	ND	0.0023 J	ND	ND	ND	ND
B12-5	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B12-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-2	4/18/2018	ND	ND	ND	ND	ND	0.0024 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-5	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-2	4/17/2018	ND	ND	ND	ND	0.0023 J	0.0012 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0024 J	ND	ND	ND	ND	ND	ND	0.001 J	ND	ND	ND	ND
B14-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B15-2	4/17/2018	ND	ND	ND	ND	0.0036 J	0.0027 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0013 J	ND	0.0029 J	ND	ND	ND	ND	ND	ND	0.0011 J	ND	ND	ND	ND
B15-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B15-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2 - Summary of VOCs in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	TETRACHLOROETHENE	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRANS-1,3-DICHLOROPROPEN	TRICHLOROETHENE	TRICHLOROFLUOROMETHANE	VINYL CHLORIDE	VINYL ACETATE	FREON113	DIBROMOMETHANE
Units[1]		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**RSL**	100	47000	23000	8.2	**6**	350000	1.7	**3800**	**28000**	**99**
	DTSC	**2.7**	**5400**	**600**	**2.6**	-	**5400**	**0.15**	-	-	-
		South Parcel									
B1-5.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B1-10.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B1-15.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SG-2-5	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		North Parcel									
B7-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-2	4/17/2018	ND	0.0024 J	ND	ND	ND	ND	ND	ND	ND	ND
B9-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10-2	4/17/2018	ND	0.0039 J	ND	ND	ND	ND	ND	ND	ND	ND
B10-5	4/17/2018	ND	0.0018 J	ND	ND	ND	ND	ND	ND	ND	ND
B10-10	4/17/2018	ND	0.0021 J	ND	ND	ND	ND	ND	ND	ND	ND
B11-2	4/18/2018	ND	0.0053 J	ND	ND	ND	ND	ND	ND	ND	ND
B11-5	4/18/2018	ND	0.0019 J	ND	ND	ND	ND	ND	ND	ND	ND
B11-10	4/18/2018	ND	0.0014 J	ND	ND	ND	ND	ND	ND	ND	ND
B11-15	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B12-2	4/18/2018	ND	0.0015 J	ND	ND	ND	ND	ND	ND	ND	ND
B12-5	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B12-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-2	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-5	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-2	4/17/2018	ND	0.0047 J	ND	ND	ND	ND	ND	ND	ND	ND
B14-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B15-2	4/17/2018	ND	0.0068	ND	ND	ND	ND	ND	ND	ND	ND
B15-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B15-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3 - Summary of Metals in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**RSL**	**470**	3	**220000**	2300	980	1800000	**350**	**47000**	800	46	**5800**	22000	**5800**	5800	**12**	5800	**350000**
	DTSC	-	**12***	-	**210**	**7.3**	**170000**	-	-	**320**	**4.5**	-	**3100**	-	**1500**	-	**1000**	-
		South Parcel																
B2-0.5	4/16/2018	--	7.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B2-2	4/16/2018	--	4.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B3-0.5	4/16/2018	--	--	--	--	**10.7**	--	--	--	**722**	--	--	--	--	--	--	--	--
B3-2	4/16/2018	--	--	--	--	**14**	--	--	--	**929**	--	--	--	--	--	--	--	--
B3-2D	4/16/2018	--	--	--	--	**18.5**	--	--	--	**1250**	--	--	--	--	--	--	--	--
B3-5	4/16/2018	--	--	--	--	0.396 J	--	--	--	8.74	--	--	--	--	--	--	--	--
B4-0.5	4/16/2018	--	--	--	--	--	--	--	--	**386**	--	--	--	--	--	--	--	--
B4-0.5D	4/16/2018	--	--	--	--	--	--	--	--	**417**	--	--	--	--	--	--	--	--
B4-2	4/16/2018	--	--	--	--	--	--	--	--	66.7	--	--	--	--	--	--	--	--
B4-5	4/16/2018	--	--	--	--	--	--	--	--	6.33	--	--	--	--	--	--	--	--
B5-0.5	4/16/2018	--	4.82	--	--	--	--	--	--	46.1	--	--	--	--	--	--	--	--
B5-2	4/16/2018	--	4.64	--	--	--	--	--	--	85.5	--	--	--	--	--	--	--	--
B6-0.5	4/16/2018	--	4.98	--	--	--	--	--	--	31.6	--	--	--	--	--	--	--	--
B6-2	4/16/2018	--	4.68	--	--	--	--	--	--	6.94	--	--	--	--	--	--	--	--
	North Parcel																	
B7-0.5	4/16/2018	ND	7.17	181	0.594 J	0.184 J	31	13.3	30.6	15.4	ND	0.752 J	21.4	1.36	ND	ND	50	100
B7-2	4/16/2018	ND	10.6	203	0.848 J	ND	40.7	16.5	27.2	10.2	0.0901 J	ND	27	1.77	ND	ND	66.5	76.3
B7-5	4/16/2018	ND	8.77	212	0.639 J	ND	31.1	13.1	20.1	6.73	0.0395 J	ND	21.8	1.59	ND	ND	51	57.5
B7-10	4/17/2018	ND	7.16	224	0.742 J	ND	42.2	20.4	43.9	9.84	0.0547 J	ND	34.8	2	ND	ND	67.7	100
B7-15	4/17/2018	ND	3.5	27.4	ND	ND	7.64	2.24	2.23	1.24	ND	ND	2.89	ND	ND	ND	11.6	10
B8-0.5	4/17/2018	1.34 J	**19.9**	159	0.334 J	1.62	26.4	9.84	73.4	150	0.364	2.34 J	26.2	1.53	ND	ND	38	213
B8-2	4/17/2018	ND	11.5	126	0.813 J	ND	38.2	15.8	26.1	11.5	0.0387 J	0.824 J	27.3	2.09	ND	ND	64.3	70.1
B8-5	4/17/2018	ND	11	108	0.612 J	ND	34.8	16	21.9	8.64	ND	0.608 J	24.1	1.97	ND	ND	57.8	62
B8-10	4/17/2018	ND	9.28	250	0.589 J	ND	35	18	30.1	7.02	ND	ND	29.4	1.25	ND	ND	55.3	80.6
B9-0.5	4/17/2018	2.37 J	**14.9**	274	0.381 J	1.71	45.8	11.8	205	124	0.087 J	5.04	39.8	1.6	1.11	ND	40.4	633
B9-2	4/17/2018	1.28 J	**24.2**	165	0.392 J	0.459 J	32.1	12.3	49.2	56.2	0.0858 J	4.01 J	25.6	1.45	ND	ND	42.2	159
B9-5	4/17/2018	ND	10.4	132	0.764 J	ND	39	15.9	23.3	8.26	ND	1.2 J	25.2	2.12	ND	ND	63.9	58.6
B9-10	4/17/2018	ND	**31.5**	230	0.755 J	ND	39	16.4	23.9	7.96	ND	ND	27.6	1.2	ND	ND	59.2	67.2
B10-0.5	4/17/2018	ND	**12.8**	219	0.38 J	1.46	43.7	12	477	127	0.0855 J	2.48 J	30.6	1.2	ND	ND	41.5	399
B10-2	4/17/2018	ND	**14.3**	178	0.365 J	0.696 J	64.3	11.9	493	110	0.184	3.34 J	33.1	1.39	ND	ND	43.5	176
B10-5	4/17/2018	ND	7.9	139	0.334 J	0.289 J	35.7	11.9	26.9	45.5	0.0704 J	0.998 J	20.3	1.09	ND	ND	43.5	96.2
B10-10	4/17/2018	ND	10.5	84.9	0.29 J	0.145 J	15.1	7.16	11.3	5.6	ND	ND	8.88	0.822 J	ND	ND	22.1	38.9
B11-0.5	4/17/2018	1.34 J	**12.5**	190	0.53 J	2.6	62.1	14.5	74.6	124	**38.6**	8.08	40	ND	ND	ND	50.8	476

Table 3 - Summary of Metals in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**RSL**	**470**	3	**220000**	2300	980	1800000	**350**	**47000**	800	46	**5800**	22000	**5800**	5800	**12**	5800	**350000**
	DTSC	-	**12***	-	**210**	**7.3**	**170000**	-	-	**320**	**4.5**	-	**3100**	-	**1500**	-	**1000**	-
B11-2	4/17/2018	ND	**14.7**	142	0.429 J	1.01 J	32.5	11.3	35.5	47.1	3.59	1.55 J	23.5	ND	ND	ND	39.1	154
B11-5	4/17/2018	ND	7.7	173	0.451 J	0.562 J	25.7	16.7	24.2	8.54	0.0261 J	0.722 J	23.2	ND	ND	ND	51.5	94.1
B11-10	4/18/2018	ND	5.01	182	0.437 J	0.519 J	25.4	16.8	21.7	4.79	ND	ND	21.9	ND	ND	ND	50.9	83.3
B11-15	4/18/2018	ND	2.82	86.7	0.452 J	0.255 J	19.2	7.67	13.1	4.68	ND	ND	14.1	ND	ND	ND	28.3	39.4
B12-0.5	4/18/2018	ND	**15**	171	0.518 J	1.42	36	14.2	74.8	167	0.0639 J	2.12 J	31.2	ND	ND	ND	50.7	157
B12-2	4/18/2018	ND	11.8	148	0.461 J	1.3	28.7	12.2	59.8	140	0.0731 J	1.44 J	24.2	ND	ND	ND	44.7	148
B12-5	4/18/2018	ND	7.12	182	0.505 J	0.466 J	27.9	17.6	27	6.61	0.0313 J	ND	24	ND	ND	ND	55.9	92.7
B12-10	4/18/2018	ND	3.48	108	0.281 J	0.208 J	17.2	10.7	12.7	3.25	0.0421 J	ND	14.3	ND	ND	ND	34.9	56.8
B13-0.5	4/18/2018	1.83 J	**22.5**	153	0.444 J	0.774 J	27.1	12.2	35.8	50	0.123	1.81 J	23.3	ND	ND	ND	40.7	182
B13-2	4/18/2018	3.01 J	**31.7**	153	0.386 J	0.614 J	28	11.2	32.2	53.9	0.0423 J	1.63 J	21.9	ND	ND	ND	38.8	102
B13-5	4/18/2018	ND	5.18	152	0.364 J	0.477 J	22.9	14.6	19.4	7.32	0.0362 J	ND	19.7	ND	ND	ND	44.1	78.2
B13-10	4/18/2018	ND	**86.5**	70.1	0.316 J	0.281 J	15.8	8.89	10.6	3.46	ND	0.762 J	12	ND	ND	ND	26.5	30.2
B14-0.5	4/18/2018	2.55 J	9.29	265	0.302 J	2.64	52.8	9.23	282	120	0.106	5.46	31.3	1.21	0.327 J	ND	30.1	543
B14-2	4/18/2018	1.56 J	**16.5**	178	0.343 J	0.723 J	40.4	10.7	48	187	0.078 J	3.05 J	23.5	1.17	ND	ND	37.9	152
B14-5	4/18/2018	ND	6.61	166	0.624 J	ND	30.2	13.1	18.2	6.67	ND	ND	24	1.81	ND	ND	51.2	52.3
B14-10	4/17/2018	ND	**16.2**	38.5	ND	ND	12.1	3.32	4.64	1.71	ND	ND	5.32	0.644 J	ND	ND	17.2	14.6
B14-15	4/17/2018	ND	2.06	21.3	ND	ND	6.38	2.08	3.53	1.2	ND	ND	2.9	0.603 J	ND	ND	15.5	7.86
B15-0.5	4/17/2018	ND	6.23	145	0.358 J	0.605 J	21.1	7.35	29.8	38.2	ND	2.29 J	20.7	1.15	ND	ND	31.4	160
B15-2	4/17/2018	ND	7.77	156	0.401 J	0.379 J	31.4	10.2	55.3	30.1	0.0381 J	2.21 J	18.8	1.69	ND	ND	37.2	121
B15-5	4/17/2018	ND	6.41	286	0.569 J	ND	27.7	12.8	20.5	7.04	0.0418 J	ND	26.9	1.31	ND	ND	43.9	57.5
B15-10	4/17/2018	ND	6.14	61.3	0.27 J	ND	14.4	9.15	10.2	3.83	ND	ND	10.4	0.9 J	ND	ND	24	31.1

Shaded cell indicates detection above the lower of the EPA RSL and the DTSC Note 3.
J = concentration below reporting limit
mg/kg = milligrams per kilogram
ND = Non-detect
* = DTSC Southern California Regional Background Arsenic Concentration in Soil

Table 4 - Polychlorinated Biphenyls in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
Units[1]		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	RSL	27	0.83	0.72	0.95	0.95	0.97	0.99
	South Parcel							
B4-0.5	4/16/2018	ND	ND	ND	ND	ND	0.19	0.16
B4-0.5D	4/16/2018	ND	ND	ND	ND	ND	0.23	0.17
B4-2	4/16/2018	ND	ND	ND	ND	ND	ND	ND
B6-0.5	4/16/2018	ND	ND	ND	ND	ND	ND	ND
B6-2	4/16/2018	ND	ND	ND	ND	ND	ND	ND
	North Parcel							
B7-0.5	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B7-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B7-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B7-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B7-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B8-0.5	4/17/2018	ND	ND	ND	ND	ND	0.25	0.23
B8-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B8-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B8-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B9-0.5	4/17/2018	ND	ND	ND	ND	ND	ND	0.063
B9-2	4/17/2018	ND	ND	ND	ND	ND	ND	0.021 J
B9-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B9-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B10-0.5	4/17/2018	ND	ND	ND	ND	ND	ND	0.085
B10-2	4/17/2018	ND	ND	ND	ND	ND	ND	0.052
B10-5	4/17/2018	ND	ND	ND	ND	ND	ND	0.034 J
B10-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B11-0.5	4/18/2018	ND	ND	ND	ND	ND	ND	0.061
B12-0.5	4/18/2018	ND	ND	ND	ND	ND	ND	0.035 J
B13-0.5	4/18/2018	ND	ND	ND	ND	ND	ND	0.045 J
B14-0.5	4/17/2018	ND	ND	ND	ND	ND	ND	0.028 J
B14-2	4/17/2018	ND	ND	ND	ND	ND	ND	0.04 J
B14-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B14-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B14-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B15-0.5	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B15-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B15-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B15-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND

J = concentration below reporting limit
ND = Non-detect
mg/kg = milligrams per kilogram
PCBs = Polychlorinated Biphenyls
[1] - analytical results for PCBs are reported in units of micrograms per kilogram (µg/kg) in the laboratory reports (Appendix C).
Screening level is the EPA RSL.

Table 5 - Polyaromatic Hydrocarbons in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	ACENAPHTHENE	ACENAPHTHYLENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(K)FLUORANTHENE	BENZO(G,H,I)PERYLENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE	PHENANTHRENE	PYRENE	2-METHYLNAPHTHALENE	1-METHYLNAPHTHALENE
Units[1]		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**RSL**	45000	-	230000	21	2.1	21	210	-	2100	2.1	30000	30000	21	17	-	23000	3000	73
	North Parcel																		
B7-0.5	4/17/2018	ND	ND	ND	0.0066	0.006	0.0069	ND	0.0085	0.0072	ND	0.0059	ND	0.0034 J	ND	0.0036 J	0.0066	ND	ND
B7-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-0.5	4/17/2018	ND	ND	ND	0.13	0.072 J	0.11 J	ND	0.13	0.12 J	ND	0.16	ND	ND	ND	0.11 J	0.16	ND	ND
B8-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-0.5	4/17/2018	ND	ND	ND	0.08	0.066	0.084	0.017 J	0.089	0.1	ND	0.078	ND	0.036	ND	0.046	0.087	ND	ND
B9-2	4/17/2018	ND	ND	ND	0.061	0.044	0.048	ND	0.052	0.096	0.013 J	0.033	ND	0.023 J	ND	0.035	0.054	ND	ND
B9-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10-0.5	4/17/2018	ND	ND	0.018	0.068	0.065	0.077	0.019	0.063	0.085	0.011 J	0.11	ND	0.033	0.0077 J	0.063	0.11	0.0085 J	ND
B10-2	4/17/2018	ND	0.0084 J	0.02	0.028	0.026	0.027	ND	0.064	0.03	ND	0.023	ND	0.013 J	ND	0.018	0.033	ND	ND
B10-5	4/17/2018	ND	ND	ND	0.028 J	ND	ND	ND	0.055	ND	ND	ND	ND	ND	ND	ND	0.028 J	ND	ND
B10-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B11-0.5	4/18/2018	ND	0.0084 J	0.0093 J	0.051	0.05	0.059	0.013 J	0.073	0.078	0.011 J	0.062	ND	0.03	0.0099 J	0.037	0.079	0.012 J	ND
B11-2	4/18/2018	ND	ND	ND	0.023	0.019	0.019	ND	0.026	0.026	ND	0.025	ND	0.011 J	ND	0.018	0.033	0.011 J	ND
B11-5	4/18/2018	ND	0.032	0.017 J	0.13	0.14	0.13	0.043	0.12	0.13	0.019 J	0.19	ND	0.077	ND	0.069	0.24	ND	ND
B11-10	4/18/2018	ND	0.0081 J	ND	0.028	0.033	0.032	0.0078 J	0.027	0.025	ND	0.047	ND	0.018	ND	0.019	0.063	ND	ND
B11-15	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B12-0.5	4/18/2018	ND	ND	ND	0.031	0.029	0.032	0.0086 J	0.036	0.036	ND	0.043	ND	0.018	ND	0.021	0.054	ND	ND
B12-2	4/18/2018	ND	ND	ND	0.035	0.031	0.034	0.0097 J	0.046	0.039	ND	0.037	ND	0.021	ND	0.018	0.052	ND	ND
B12-5	4/18/2018	ND	0.045	0.018	0.13	0.16	0.15	0.04	0.12	0.15	0.019	0.19	ND	0.081	ND	0.044	0.27	ND	ND
B12-10	4/18/2018	ND	0.0058 J	ND	0.025	0.023	0.024	0.0058 J	0.019	0.02	ND	0.031	ND	0.012	ND	0.0079	0.043	ND	ND
B13-0.5	4/18/2018	ND	0.0095 J	0.025	0.15	0.11	0.14	0.033	0.092	0.24	0.026	0.21	ND	0.054	ND	0.12	0.22	ND	ND
B13-2	4/18/2018	ND	ND	0.012 J	0.091	0.072	0.068	0.017	0.066	0.22	0.024	0.047	ND	0.032	ND	0.058	0.083	ND	ND
B13-5	4/18/2018	ND	0.017	0.0071 J	0.073	0.077	0.078	0.016	0.062	0.092	0.01 J	0.11	ND	0.04	ND	0.029	0.14	ND	ND

Table 5 - Polyaromatic Hydrocarbons in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	ACENAPHTHENE	ACENAPHTHYLENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(K)FLUORANTHENE	BENZO(G,H,I)PERYLENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE	PHENANTHRENE	PYRENE	2-METHYLNAPHTHALENE	1-METHYLNAPHTHALENE
Units[1]		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**RSL**	45000	-	230000	21	2.1	21	210	-	2100	2.1	30000	30000	21	17	-	23000	3000	73
B13-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-0.5	4/17/2018	ND	ND	ND	0.098 J	ND	ND	ND	0.11 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-2	4/17/2018	ND	ND	ND	0.085 J	ND	ND	ND	0.068 J	0.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B15-0.5	4/17/2018	ND	ND	ND	0.022	0.019	0.025	ND	0.025	0.027	ND	0.023	ND	0.0096 J	ND	0.013 J	0.025	ND	ND
B15-2	4/17/2018	ND	ND	ND	0.018	0.014	0.016	ND	0.017	0.022	ND	0.015	ND	0.007 J	ND	0.012	0.019	ND	ND
B15-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B15-10	4/17/2018	ND	ND	ND	0.022	0.019	0.024	ND	0.024	0.02	ND	0.026	ND	0.01 J	ND	0.014 J	0.024	ND	ND

J = concentration below reporting limit
mg/kg = milligrams per kilogram
ND = Non-detect
PAHs = Polyaromatic hydrocarbons
[1] - analytical results for VOCs are reported in units of micrograms per kilogram (µg/kg) in the laboratory reports (Appendix C).
Screening Level is the EPA RSL.

Table 6 - Metals STLC/TCLP Data
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	Cadmium	Cadmium STLC	Chromium	Chromium STLC	Copper	Copper STLC	Lead	Lead STLC	Lead TCLP	Mercury	Mercury STLC	Mercury TCLP
Units		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
Screening Value		**10**	**1**	**50**	**5**	**250**	**25**	**50**	**5**	**5**	**4.5**	**0.2**	
		South Parcel											
B3-2D	4/16/2018	**18.5**	**1.19**	--	--	--	--	**1250**	**90**	**2.72**	--	--	--
B4-0.5	4/16/2018	--	0.214 J	--	--	--	--	**386**	**32.7**	**0.343**	--	--	--
		North Parcel											
B10-0.5	4/17/2018	1.46	--	43.7	0.708	477	3.06	**127**	**6.47**	--	0.0855 J	--	--
B11-0.5	4/18/2018	2.6	--	62.1	0.389	74.6	3.23	**124**	**7.79**	--	**38.6**	**7.72**	**0.0564**
B14-0.5	4/17/2018	2.64	--	52.8	--	282	3.69	**120**	**5.51**	--	0.106	--	--

Shaded cell indicates detection above the STLC and TCLP screening levels of 5 mg/L.
STLC = Soluable Threshold Limit Concentration
TCLP = Toxicity Characteristic Leaching Procedure
J = concentration below reporting limit
mg/kg = milligrams per kilogram
mg/L = milligrams per liter

Table 7 -Summary of TPH and VOCs in Groundwater
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	Total TPH	TPH-g (8015)	TPH-d (8105)	TPH-mo (8015)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Acetone	CIS-1,2-DICHLOROETHENE	MTBE	All Other VOCs
Units		mg/L	mg/L[1]	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Screening Criteria - SFRWQCB ESL		NA	0.1	0.1	NA	1	13	40	20	1500	6	5	NA
South Parcel													
B1	4/16/2018	**1.74**	ND	**1**	0.74	ND	ND	ND	ND	7.4 J	0.38 J	0.27 J	ND
North Parcel													
B7	4/17/2018	**1.93**	ND	**0.73**	1.2	ND	ND	ND	ND	ND	ND	ND	ND
B11	4/18/2018	**1.785**	0.015 J	**0.37 J**	1.4	ND	ND	ND	ND	13 J	ND	ND	ND
B14	4/17/2018	**1.31**	ND	**0.52**	0.79	ND	ND	0.29 J	ND	12 J	ND	ND	ND

ND = Non-detect
mg/L = milligrams per liter
µg/L = micrograms per liter
Total TPH = Total Petroleum Hydrocarbons, which was calculated as the sum of the results for TPH C4-C12, C13-C22, and C23-C40 by EPA Method 8015M.
TPH-g = Total Petroleum Hydrocarbons as gasoline (C4-C12)
TPH-d = Total Petroleum Hydrocarbons as diesel (C13-C22)
TPH-mo = Total Petroleum Hydrocarbons as motor oil (C23-C40)
VOCs = Volatile Organic Compounds

[1] - analytical results for VOCs are reported in units of micrograms per liter (µg/L) in the laboratory reports (Appendix C).

Table 8 - Summary of Polyaromatic Hydrocarbons in Groundwater
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	ACENAPHTHENE	ACENAPHTHYLENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(K)FLUORANTHENE	BENZO(G,H,I)PERYLENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE	PHENANTHRENE	PYRENE	2-METHYLNAPHTHALENE	1-METHYLNAPHTHALENE
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Screening Criteria - SFRWQCB ESL		20	30	0.73	0.027	0.014	0.012	0.017	0.01	0.049	0.0034	8	3.9	0.034	0.17	4.6	2	2.1	NA
	North Parcel																		
B7	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.022 J	ND	ND	ND
B11	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

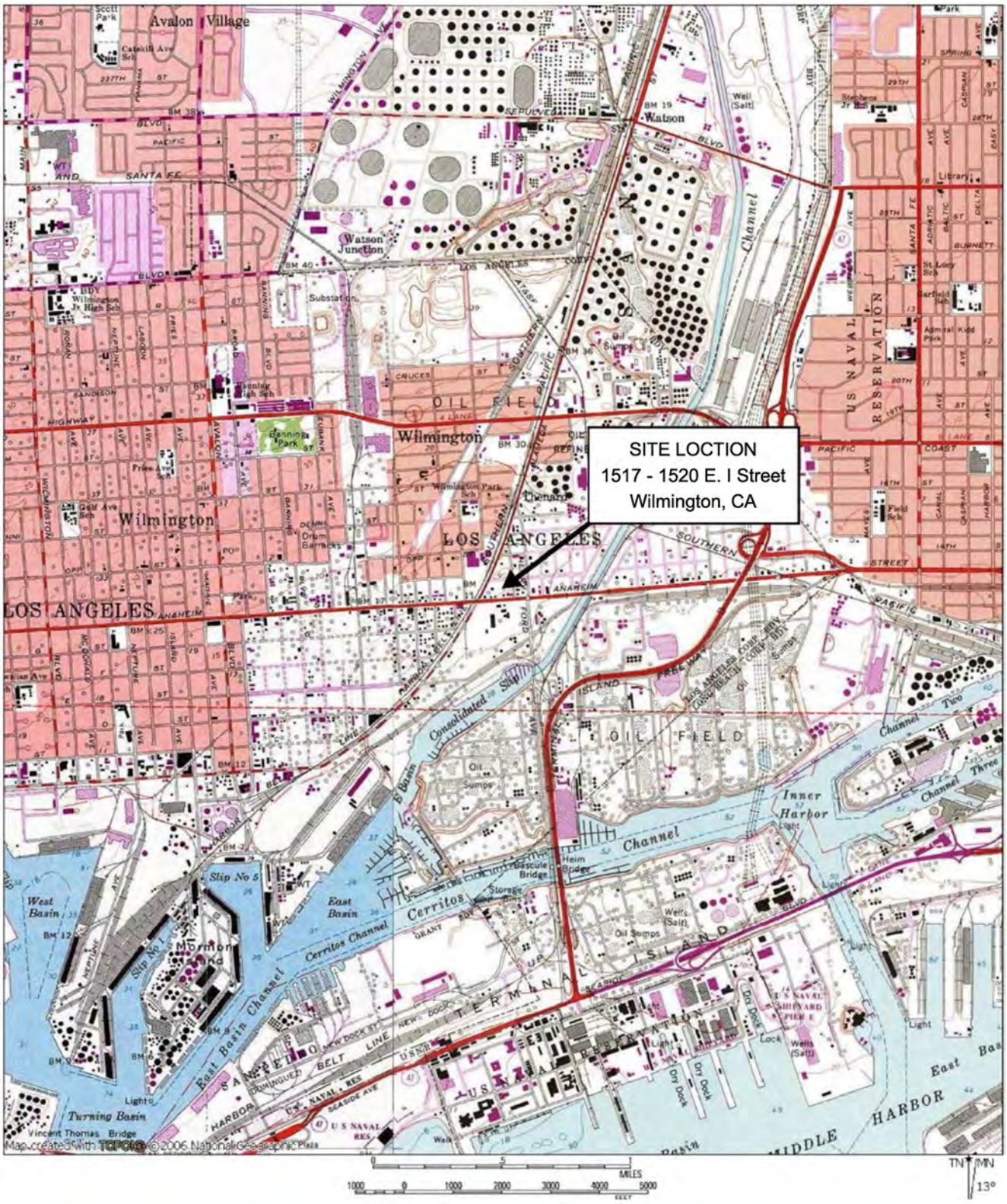
ND = Non-detect
mg/kg = milligrams per kilogram
µg/L = micrograms per liter
Screening level is the SFRWQCB ESL.

Table 9 - Summary of VOCs in Soil Gas
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	ISOPROPYL BENZENE	N-PROPYLBENZENE	SEC-BUTYLBENZENE	ALL OTHER VOCS	METHANE
Units[1]		µg/L	µg/L	µg/L	µg/L	%
Screening Criteria - US EPA RSL		3600	8800	3600	NA	0.1
South Parcel						
B1-5.0	4/23/2018	ND<0.020	ND<0.020	ND<0.020	ND	ND<0.01
B1-5DUP	4/23/2018	ND<0.020	ND<0.020	ND<0.020	ND	ND<0.01
B2-5	4/23/2018	**0.407**	**0.455**	**0.566**	ND	**0.1**
SG7-5	4/23/2018	ND<0.020	ND<0.020	ND<0.020	ND	ND<0.01
North Parcel						
B8-5	4/23/2018	ND<0.020	ND<0.020	ND<0.020	ND	ND<0.01
B10-5	4/23/2018	ND<0.020	ND<0.020	ND<0.020	ND	ND<0.01
B12-5	4/23/2018	ND<0.020	ND<0.020	ND<0.020	ND	ND<0.01
B14-5	4/23/2018	ND<0.020	ND<0.020	ND<0.020	ND	ND<0.01

Notes
µg/L = microgram per liter
ND = Non-detect
Screening level is the DTSC Soil gas screening level.

FIGURES



N

Figure 1

VICINITY MAP

Port of Los Angeles
1517- 1520 East "I" Street
Wilmington, CA

PARSONS

K: De ts Dept48\POLA MSA (2017 8-03 East Street Investigation\Figures\Figure Vicinity Map.dwg

Parcel Boundary

B-1 Soil Boring

N

0 60 120

SCALE IN FEET

Figure 2

SITE PLAN

Port of Los Angeles
1517- 1520 East "I" Street
Wilmington, CA

PARSONS

K:\Depts\Dept48\POLA MSA (2017)\2018-03 East I Street Investigation\Figures\Figure 2 - Site Plan.dwg

"I" Street

Depth	TPH
5.0'	ND

GS24

Depth	TPH
0.5'	4,700
2.5'	6,700

GS8

Depth	TPH
10.0'	5.9

GS21

Depth	TPH
0.5'	ND
2.5'	ND

GS1

GS13

Depth	TPH
5.0'	ND
10.0'	ND

Depth	TPH
1.0'	14,000
5.0'	ND
10.0'	6.5

GS25

Depth	TPH
0.5'	4,400
2.5'	92

GS6

HA4

HA3

B3

HA5

Depth	TPH
5.0'	9.3
10.0'	7.1

GS26

Depth	TPH
0.5'	730
2.0'	470

GS14

Depth	TPH
5.0'	ND
10.0'	70

Oil Well

GS15

Depth	TPH
5.0'	ND
10.0'	11

Depth	TPH
0.5'	659
2.0'	ND
5.0'	ND
10.0'	ND
15.0'	ND

AST

AST

HA9

B1

GS9

Depth	TPH
5.0'	11
10.0'	10

GS22

Depth	TPH
0.5'	2,211
2.0'	260

GS16

Depth	TPH
0.5'	420
2.5'	51

GS2

GS17

Depth	TPH
5.0'	ND
10.0'	ND

HA2

Depth	TPH
0.5'	13,000
2.5'	8.6
5.0'	ND
10.0'	ND

B4

Depth	TPH
5.0'	ND
10.0'	6.6

Depth	TPH
0.5'	13,000
2.5'	30,000

AST

HA10

Depth	TPH
0.5'	350
2.5'	4,100

GS10

GS28

HA11

GS27

Depth	TPH
5.0'	10
10.0'	ND

GS7

HA6

HA7

HA8

Depth	TPH
0.5'	150
2.5'	1,300

GS3

B2

AST

Depth	TPH
1.0'	130
2.5'	ND
5.0'	ND
10.0'	9.6

GS19

GS4

Depth	TPH
0.5'	160
2.5'	35

Depth	TPH
1.0'	160
5.0'	5.6
10.0'	21,000

Depth	TPH
5.0'	ND
10.0'	ND

GS18

GS11

Depth	TPH
0.5'	81
2.5'	5.6

GS29

Depth	TPH
5.0'	ND
10.0'	6.6

GS31

Depth	TPH
5.0'	45
10.0'	ND

Depth	TPH
5.0'	ND
10.0'	ND

GS23

Depth	TPH
0.50'	1,180
2.0'	1,330
5.0'	14,150
10.0'	17,290
15.0'	11,370

GS20

HA1

GS5

HA2

Depth	TPH
5.0'	13
10.0'	ND

Depth	TPH
0.5'	320
2.5'	79

GS12

Depth	TPH
0.5'	190
2.5'	250

GS30

Depth	TPH
5.0'	ND
10.0'	ND

12 13 14 15 16 17 18 19 20 21

LEGEND

- = Oil Well
- = Hand Auger Location - Oct 2008
- = Soil & Soil Gas Sample Locations - Oct 2007
- = Soil Sample Location - Oct 2008
- = Soil & Soil Gas Sample Location - Oct 2008
- = Soil & Groundwater Sample Location - Oct 2008
- = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- ND = Not Detected
- **= Soil Boring Location, 2018**
- **= TPH (C6-C44) concentration above 1,000 mg/kg**

NOTE: All TPH data = Total TPH in mg/kg

Pacific Edge Data Are Included

N

0 30 60

SCALE IN FEET

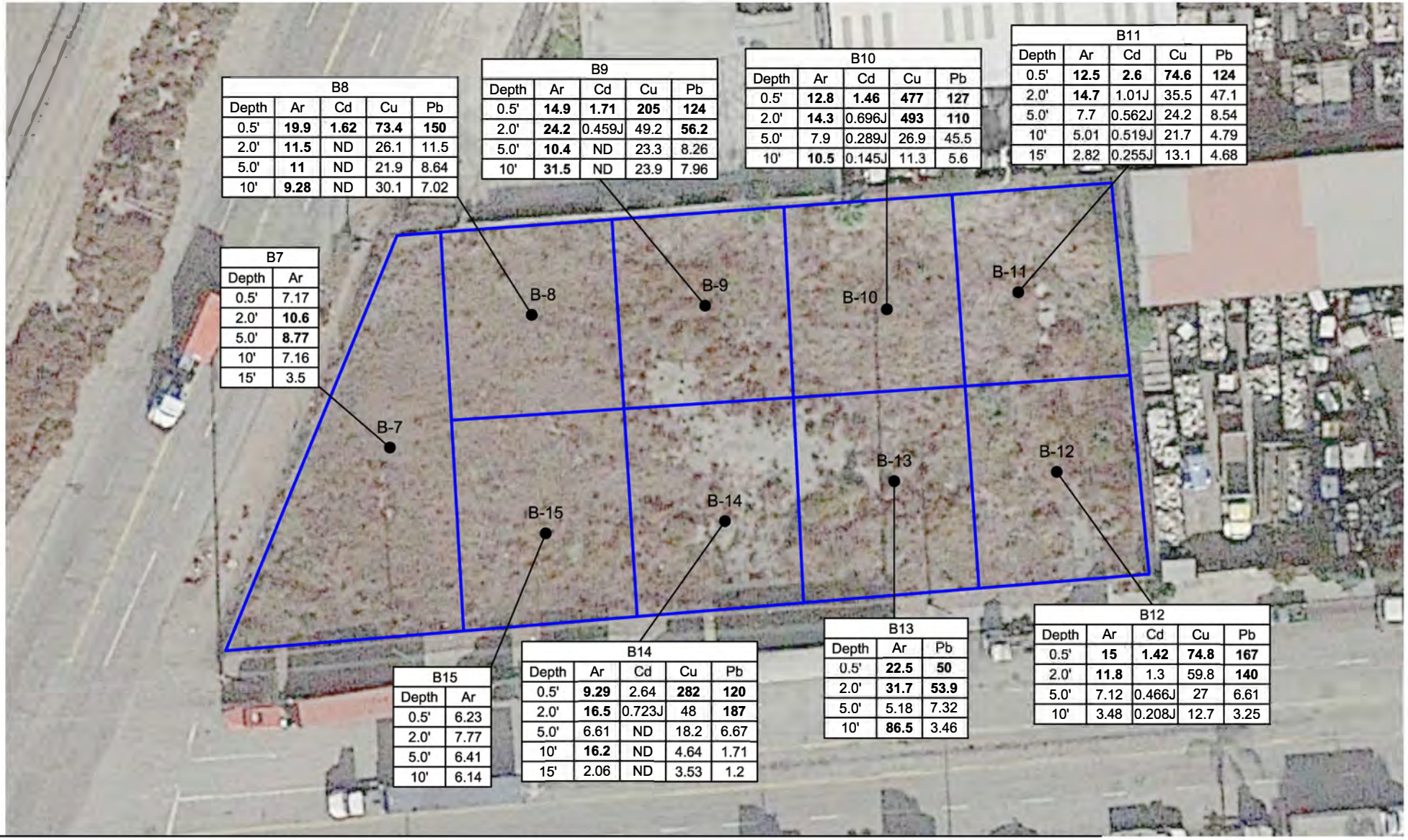
Figure 3

TPH (C6-C44) CONCENTRATIONS IN SOIL (mg/kg) (South Parcel)

Port of Los Angeles
1517-1520 East "I" Street
Wilmington, CA

PARSONS

K:\Depts\Dept48\POLA MSA (2017)\2018-03 East I Street Investigation\Figures\Figure 3 - TPH Concentrations In Soil.dwg



B8				
Depth	Ar	Cd	Cu	Pb
0.5'	**19.9**	**1.62**	**73.4**	**150**
2.0'	**11.5**	ND	26.1	11.5
5.0'	**11**	ND	21.9	8.64
10'	**9.28**	ND	30.1	7.02

B9				
Depth	Ar	Cd	Cu	Pb
0.5'	**14.9**	**1.71**	**205**	**124**
2.0'	**24.2**	0.459J	49.2	**56.2**
5.0'	**10.4**	ND	23.3	8.26
10'	**31.5**	ND	23.9	7.96

B10				
Depth	Ar	Cd	Cu	Pb
0.5'	**12.8**	**1.46**	**477**	**127**
2.0'	**14.3**	0.696J	**493**	**110**
5.0'	7.9	0.289J	26.9	45.5
10'	**10.5**	0.145J	11.3	5.6

B11				
Depth	Ar	Cd	Cu	Pb
0.5'	**12.5**	**2.6**	**74.6**	**124**
2.0'	**14.7**	1.01J	35.5	47.1
5.0'	7.7	0.562J	24.2	8.54
10'	5.01	0.519J	21.7	4.79
15'	2.82	0.255J	13.1	4.68

B7	
Depth	Ar
0.5'	7.17
2.0'	**10.6**
5.0'	**8.77**
10'	7.16
15'	3.5

B15	
Depth	Ar
0.5'	6.23
2.0'	7.77
5.0'	6.41
10'	6.14

B14				
Depth	Ar	Cd	Cu	Pb
0.5'	**9.29**	2.64	**282**	**120**
2.0'	**16.5**	0.723J	48	**187**
5.0'	6.61	ND	18.2	6.67
10'	**16.2**	ND	4.64	1.71
15'	2.06	ND	3.53	1.2

B13		
Depth	Ar	Pb
0.5'	**22.5**	**50**
2.0'	**31.7**	**53.9**
5.0'	5.18	7.32
10'	**86.5**	3.46

B12				
Depth	Ar	Cd	Cu	Pb
0.5'	**15**	**1.42**	**74.8**	**167**
2.0'	**11.8**	1.3	59.8	**140**
5.0'	7.12	0.466J	27	6.61
10'	3.48	0.208J	12.7	3.25

B-7 ● Legend
Sampling Location

NOTE: Concentrations exceeding screening criteria are shown in bold

N

0 20 40
SCALE IN FEET

Figure 4

METALS CONCENTRATIONS IN SOIL (NORTH PARCEL)

Port of Los Angeles
1517-1520 East "I" Street
Wilmington, CA

PARSONS

K:\Depts\Dept48\POLA MSA (2017)\2018-03 East I Street Investigation\Figures\Figure 4 - Metals Concentrations in Soil.dwg

"I" Street

16 17 15 18 14 19 13 20 12 21

GS24 GS8 GS21 GS13 GS1 GS25 GS6 HA4 HA3 HA5 GS14 Oil Well GS15 GS26 GS22 GS2 GS9 HA9 HA2 GS16 GS17 B4 AST HA10 GS10 GS28 HA11 GS27 GS3 HA6 GS7 HA7 HA8 GS19 GS4 GS18 GS11 GS29 GS31 GS12 B6 GS30 GS23 GS20 HA1 GS5 HA2

Depth	A1248	A1254
0.5'	<0.05	0.12

Depth	A1248	A1254
0.5'	0.063	0.064

Depth	A1248	A1254
0.5'	<0.05	0.074

Depth	A1248	A1254
1.0'	2.1	1.1

Depth	A1248	A1254
0.5'	<0.5	0.088

Depth	A1248	A1254
0.5'	<0.17	0.23
2.0'	<0.17	ND

Depth	A1248	A1254
0.5'	0.22	<0.05

Depth	A1248	A1254
0.5'	<0.05	0.068
1.0'	<0.05	0.12

Depth	A1248	A1254
0.5'	<0.25	2.1

Depth	A1248	A1254
0.5'	1.7	0.85
1.0'	0.54	<0.05

Depth	A1248	A1254
0.5'	<0.05	0.073

Depth	A1248	A1254
0.5'	33	<0.5
1.0'	0.32	<0.05

Depth	A1248	A1254
0.5'	1.8	0.99

Depth	A1248	A1254
0.5'	<0.18	<0.18
2.0'	<0.18	<0.18

Depth	A1248	A1254
0.5'	4.4	<0.5

Depth	A1248	A1254
0.5'	1.6	0.59

Depth	A1248	A1254
0.5'	0.097	0.094

Depth	A1248	A1254
0.5'	<0.05	0.081

LEGEND

- = Oil Well
- = Hand Auger Location - Oct 2008
- = Soil & Soil Gas Sample Locations - Oct 2007
- = Soil Sample Location - Oct 2008
- = Soil & Soil Gas Sample Location - Oct 2008
- = Soil & Groundwater Sample Location - Oct 2008
- = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- = Aroclor-1248 concentration of 2.1 mg/kg & Aroclor-1254 concentration of 1.1 mg/kg at 1'.
- NA = Not Analyzed
- = PCB concentration above the Industrial RSL values.
- **= Soil Boring Location, 2018**

NOTE:
All PCBs Data in mg/kg. PCBs not shown are ND
Pacific Edge Data Are Included

N

0 30 60
SCALE IN FEET

Figure 5

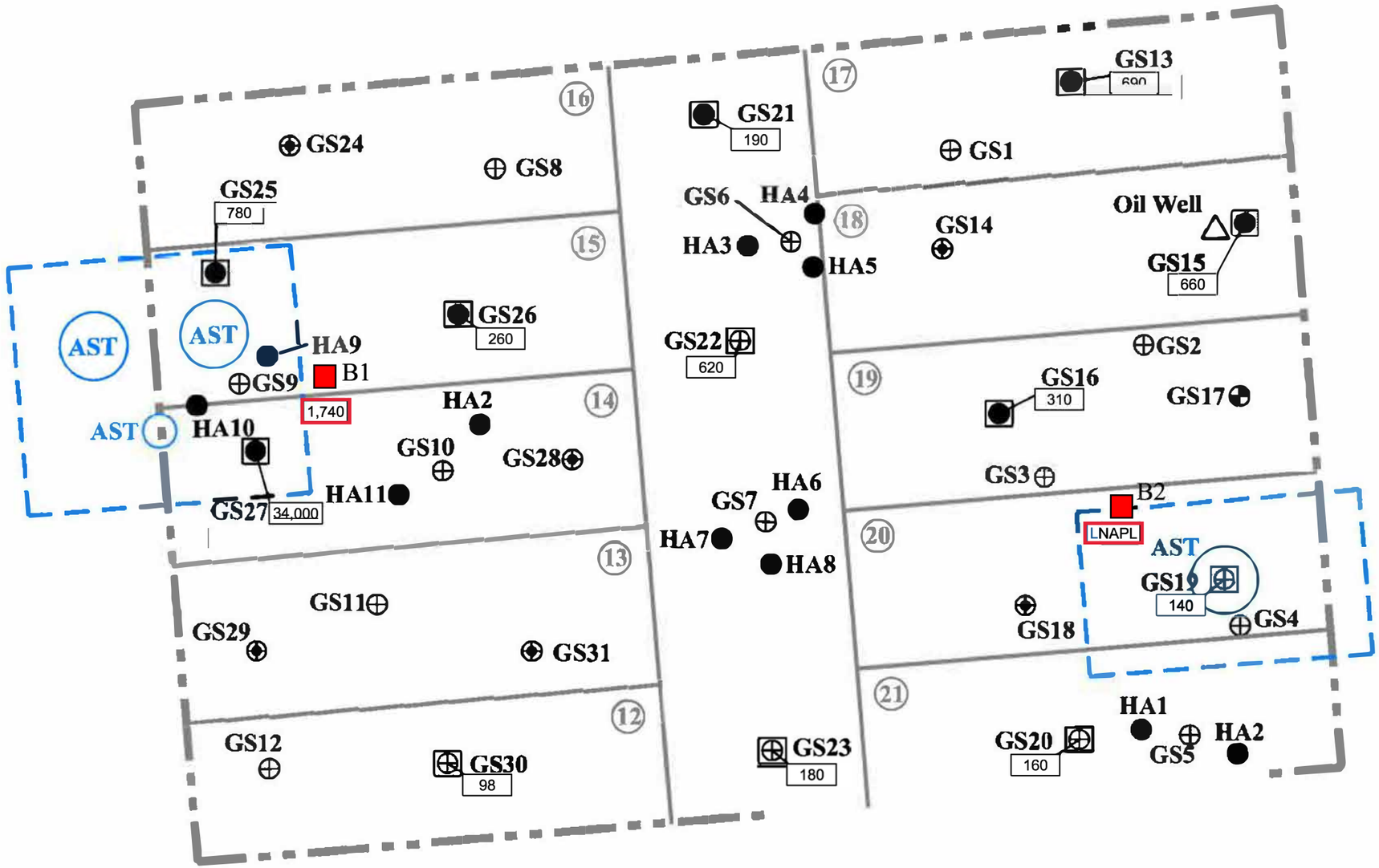
PCB CONCENTRATIONS IN SOIL (South Parcel)

Port of Los Angeles
1517-1520 East "I" Street
Wilmington, CA

PARSONS

K:\Depts\Dept48\POLA MSA (2017)\2018-03 East I Street Investigation\Figures\Figure 5 - PCB Concentrations In Soil.dwg

"I" Street



LEGEND

- △ = Oil Well
- ● = Hand Auger Location - Oct 2008
- ⊕ = Soil & Soil Gas Sample Locations - Oct 2007
- ⊕ = Soil Sample Location - Oct 2008
- ◒ = Soil & Soil Gas Sample Location - Oct 2008
- ⊕ = Soil & Groundwater Sample Location - Oct 2008
- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- ND = Not Detected
- ■ = **Soil Boring Location, 2018**

Pacific Edge Data Are Included

N

0 30 60

SCALE IN FEET

Figure 6

TOTAL TPH CONCENTRATIONS IN GROUNDWATER (µg/L) (South Parcel)

Port of Los Angeles
1517-1520 East "I" Street
Wilmington, CA

PARSONS

K:\Depts\Dept48\POLA MSA (2017)\2018-03 East I Street Investigation\Figures\Figure 6 – Total TPH Conc In GW (South Property).dwg

Legend

B-7 Sampling Location

NOTE: Concentrations exceeding POLA screening criteria are shown in bold

N

0 20 40

SCALE IN FEET

Figure 7

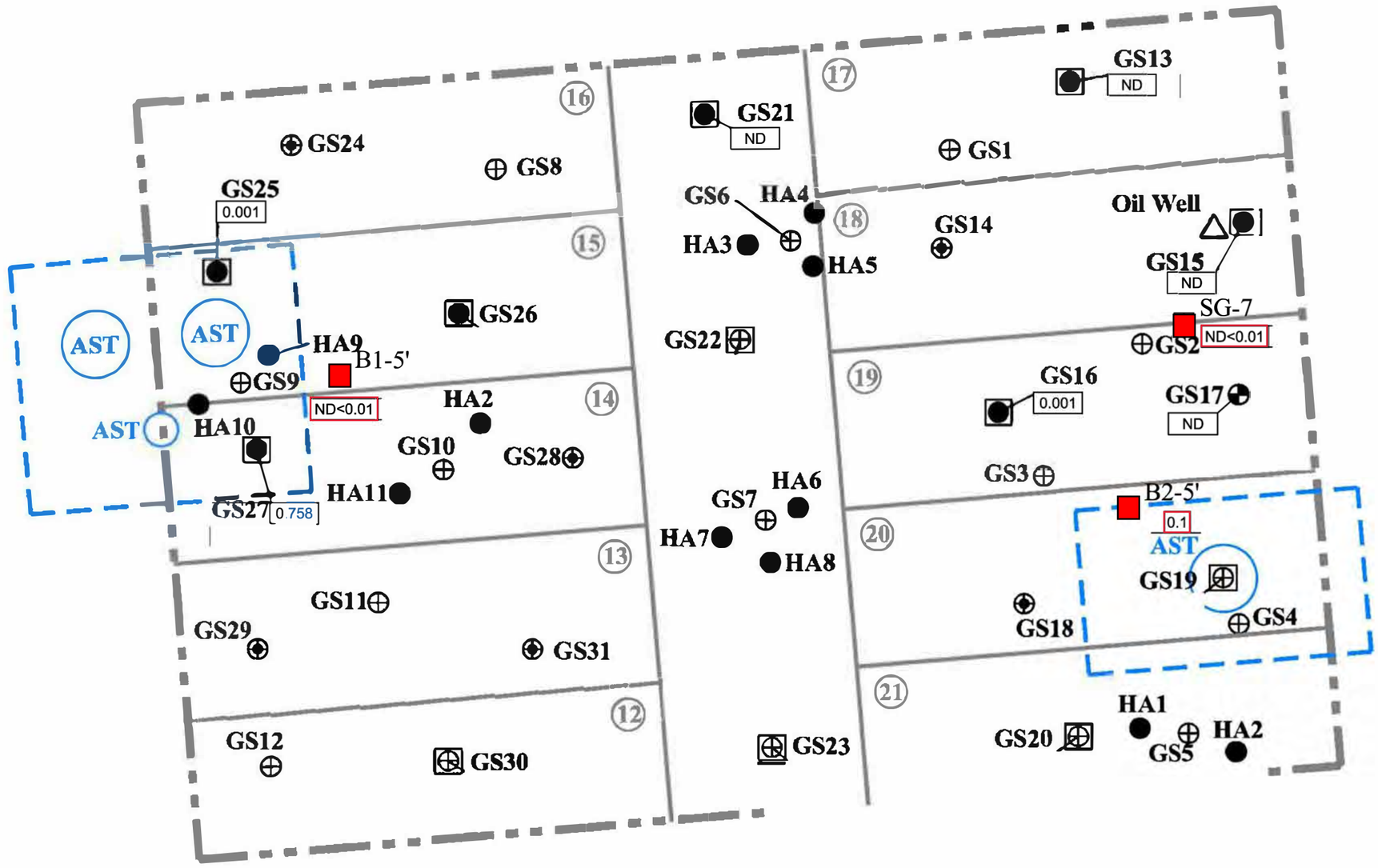
TPH CONCENTRATIONS IN GROUNDWATER (NORTH PARCEL)

Port of Los Angeles
1517-1520 East "I" Street
Wilmington, CA

PARSONS

K:\Depts\Dept48\POLA MSA (2017)\2018-03 East I Street Investigation\Figures\Figure 7 - Total TPH Conc In GW (North Property).dwg

"I" Street



LEGEND

- △ = Oil Well
- ● = Hand Auger Location - Oct 2008
- ⊕ = Soil & Soil Gas Sample Locations - Oct 2007
- ⊕ = Soil Sample Location - Oct 2008
- ◒ = Soil & Soil Gas Sample Location - Oct 2008
- ⊕ = Soil & Groundwater Sample Location - Oct 2008
- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- ND = Not Detected
- 10.8 = **Methane concentrations in %**
- ■ = **Soil Boring Location, 2018**

Pacific Edge Data Are Included

N

0 30 60

SCALE IN FEET

Figure 8

METHANE CONCENTRATIONS IN SHALLOW SOIL GAS (5-FEET BGS)

Port of Los Angeles
1517-1520 East "I" Street
Wilmington, CA

PARSONS

K:\Depts\Dept48\POLA MSA (2017)\2018-03 East I Street Investigation\Figures\Figure 8 - Methane Conc In Shallow Soil Gas.dwg

APPENDIX A

Monitoring Well Permits

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3016
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

COUNTY OF LOS ANGELES
Public Health

APPLICATION FOR WELL PERMIT

SERVICE	FEE	QTY	TOTALS
PRODUCTION WELLS			
☐ residential drinking water, ☐ public/municipal, ☐ irrigation			
☐ construction	$ 844.00	×	= $ 0
☐ decommission ☐ renovation	$ 1103.00	×	= $ 0
NON-PRODUCTION WELLS			
☐ monitoring, ☐ piezo, ☐ injection, ☐ water extraction, ☐ sparge, ☐ test,			
☐ SVE, ☐ geothermal heat exchange			
☐ construction ☐ decommission			
☐ *less than twenty-five (25) wells per parcel (first 24 wells)*	$ 519.00	×	= $ 0
☐ *twenty-five (25) or more wells per parcel*	$ 130.00	×	= $ 0
CATHODIC WELLS			
☐ construction	$ 844.00	×	= $ 0
☐ decommission	$ 1103.00	×	= $ 0
CPT/HYDROPUNCH/SOIL BORINGS			
☑ 1-4 Boring	$ 129.00		
☐ 5+ Borings	$ 516.00		
Larger projects requiring more than 4 hours review may be subject to additional plan review fees (**hourly rate at $129.00**)			
WELL SITE PLAN REVIEW	$ 584.00	×	= $ 0
WATER SUPPLY YIELD EVALUATION			
☐ commercial	$ 1038.00	×	= $ 0
☐ residential four (4) connections or less	$ 844.00	×	= $ 0
☐ residential each additional connections beyond four (4)	$ 519.00	×	= $ 0
WATER TREATMENT SYSTEM EVALUATION	$ 519.00	×	= $ 0
WATER SAMPLING commercial food service facility for USDA certification	$ 714.00	×	= $ 0

Applications are nontransferable. Field Personnel cannot accept payments. DO NOT SEND CASH.
Make checks or money orders payable to:
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC HEALTH

Allow **10** business days for work plan review and response. Cancellations of service requests are subject to a $65.00 processing fee plus additional plan review fees (hourly rate as applicable).

Effective July 1, 2017, additional fees (hourly rate of $129) will be applied when field inspection is delayed in the field for more than one hour due to the driller not being ready or unable to complete the process.

1517-1519 E I St	Wilmington	90744	Alameda/7425-043-903/7425-043-901	3/26/18
WORK SITE ADDRESS	CITY	ZIP	CROSS STREET/PARCEL#	DATE

SITE/PERMIT#	INSPECTOR:	DATE:	RECEIPT #

Revised: October 2016

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3016
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

County of Los Angeles Public Health

APPLICATION FOR WELL PERMIT

WORK SITE ADDRESS	CITY	ZIP	NUMBER OF WELLS	START DATE
1519 E I Street	Wilmington	90744	3	4/16/18

OWNER		EMAIL	
Port of Los Angeles		psun@portla.org	
ADDRESS: 425 S Palos Verdes St	CITY: San Pedro	ZIP: 90733-0151	TELEPHONE: (310) 732-0335

DRILLER	C-57 LICENSE HOLDER	C-57 LICENSE NUMBER
Gregg Drilling and Testing	John Gregg	485165
ADDRESS: 2726 Walnut Avenue	CITY: Signal Hill	ZIP: 90755
EMAIL: jmckeehan@greggdrilling.com	TELEPHONE: 562-427-6899	MOBILE

CONSULTANT	PROJECT CONTACT	PROJECT MANAGER
Parsons	Carrie Crozier	Jim Goepel
ADDRESS: 100 W Walnut St	CITY: Pasadena	ZIP: 91124
EMAIL: carrie.crozier@parsons.com	TELEPHONE: 626-440-2747	MOBILE: 626-482-4088

ATTACH ALL SUPPORTING DOCUMENTS, INCLUDING:

☐ written narrative describing work plan details

☐ vertical well diagram detailing depths, sizes, thicknesses, and materials of: (1) the casing, (2) the annular (sanitary) seal, (3) the screens/slotting, and (4) any pertinent geological features

☐ scaled drawing of roads, property lines, private sewage disposal systems, surface water features, blue line streams, and other possible sources of contamination within 200 feet of the well site

FOR WELL DECOMMISSION: ☐ well construction logs, ☐ the method of assessment, ☐ type and amount of sealant, and ☐ the method of upper seal pressure application (including PSI and time applied)

PRODUCTION WELLS	
☐ PUBLIC (MUNICIPAL UTILITY)	☐ PRIVATE RESIDENCE
☐ IRRIGATION	☐ CATHODIC PROTECTION
☐ GEOTHERMAL HEAT EXCHANGE	
☐ OTHER	
NAME OF C-57 LICENSEE	
SIGNATURE	

NON-PRODUCTION WELLS	
☐ MONITORING	☐ PIEZOMETER
☐ INJECTION	☐ WATER EXTRACTION
☐ AIR SPARGE	☐ TEST HOLE (PRE-PRODUCTION)
■ HYDROPUNCH	☐ CONE PENETROMETER (CPT)
☐ SOIL BORING	☐ SVE
NAME OF APPLICANT	
Carrie Crozier	
SIGNATURE	

BY SIGNING ABOVE, I HEREBY AGREE TO COMPLY IN EVERY RESPECT WITH ALL THE REGULATIONS, ORDINANCES, AND LAWS OF THE STATE OF CALIFORNIA, THE COUNTY OF LOS ANGELES, THE DEPARTMENT OF PUBLIC HEALTH, AND THE ENVIRONMENTAL HEALTH DRINKING WATER PROGRAM

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

Work Plan Approval

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS
1517-1519 EAST I STREET	WILMINGTON	90744	CARRIE.CROZIER@PARSONS.COM

NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

X	WORK PLAN APPROVED FOR: 3 Soil Boring/Exp. Hole	**PERMIT NUMBER:**	SR0139069	**DATE:**	April 5, 2018

ADDITIONAL APPROVAL CONDITIONS:

- Work plan approval is issued for scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review.
- As indicated on your work plan, please ensure the boring/exploration hole is backfilled within 24 hours of boring construction.
- Ensure to backfill using a tremie pipe under pressure or equivalent equipment with approved cement grout, proceeding upward from the bottom of the boring/exploration hole.
- Ensure soil borings are sealed per California Well Standards 74-90
  - Cement grout mix ratio of 5-6 gallons of water per 94-pound bag of Portland cement.
  - Up to 6% of Bentonite may be added to the cement-based mix.
  - No hydrated Bentonite chips
- Borings/Exploration holes must comply with all applicable requirements published in the California Well Standards (Bulletins 74-81 and 74-90) and the Los Angeles County Code, Title 11.

APPROVED BY:

Isabella C. Kwok, MPA, REHS
5050 Commerce Drive
Baldwin Park, Ca 91706
(626) 430-5420

7996

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3016
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

County of Los Angeles Public Health

APPLICATION FOR WELL PERMIT

SERVICE	FEE	QTY	TOTALS
PRODUCTION WELLS			
☐ residential drinking water, ☐ public/municipal, ☐ irrigation			
☐ construction	$ 844.00	×	= $ 0
☐ decommission ☐ renovation	$ 1103.00	×	= $ 0
NON-PRODUCTION WELLS			
☐ monitoring, ☐ piezo, ☐ injection, ☐ water extraction, ☐ sparge, ☐ test,			
☐ SVE, ☐ geothermal heat exchange			
☐ construction ☐ decommission			
☐ *less than twenty-five (25) wells per parcel (first 24 wells)*	$ 519.00	×	= $ 0
☐ *twenty-five (25) or more wells per parcel*	$ 130.00	×	= $ 0
CATHODIC WELLS			
☐ construction	$ 844.00	×	= $ 0
☐ decommission	$ 1103.00	×	= $ 0
CPT/HYDROPUNCH/SOIL BORINGS			
☑ 1-4 Boring	$ 129.00		
☐ 5+ Borings	$ 516.00		
Larger projects requiring more than 4 hours review may be subject to additional plan review fees (**hourly rate at $129.00**)			
WELL SITE PLAN REVIEW	$ 584.00	×	= $ 0
WATER SUPPLY YIELD EVALUATION			
☐ commercial	$ 1038.00	×	= $ 0
☐ residential four (4) connections or less	$ 844.00	×	= $ 0
☐ residential each additional connections beyond four (4)	$ 519.00	×	= $ 0
WATER TREATMENT SYSTEM EVALUATION	$ 519.00	×	= $ 0
WATER SAMPLING commercial food service facility for USDA certification	$ 714.00	×	= $ 0

Applications are nontransferable. Field Personnel cannot accept payments. DO NOT SEND CASH.
Make checks or money orders payable to:
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC HEALTH

Allow **10** business days for work plan review and response. Cancellations of service requests are subject to a $65.00 processing fee plus additional plan review fees (hourly rate as applicable).

Effective July 1, 2017, additional fees (hourly rate of $129) will be applied when field inspection is delayed in the field for more than one hour due to the driller not being ready or unable to complete the process.

1520 E I St	Wilmington	90744	Alameda/7425-044-900	3/20/18
WORK SITE ADDRESS	CITY	ZIP	CROSS STREET/PARCEL#	DATE

SITE/PERMIT#	INSPECTOR:	DATE:	RECEIPT #

Revised: October 2016

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3016
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

County of Los Angeles Public Health

APPLICATION FOR WELL PERMIT

WORK SITE ADDRESS	CITY	ZIP	NUMBER OF WELLS	START DATE
1520 E I Street	Wilmington	90744	2	4/9/18

OWNER		EMAIL	
Port of Los Angeles		psun@portla.org	
ADDRESS	CITY	ZIP	TELEPHONE
425 S Palos Verdes St	San Pedro	90733-0151	(310) 732-0335

DRILLER	C-57 LICENSE HOLDER	C-57 LICENSE NUMBER
Gregg Drilling and Testing	John Gregg	485165
ADDRESS	CITY	ZIP
2726 Walnut Avenue	Signal Hill	90755
EMAIL	TELEPHONE	MOBILE
jmckeehan@greggdrilling.com	562-427-6899	

CONSULTANT	PROJECT CONTACT	PROJECT MANAGER
Parsons	Carrie Crozier	Jim Goepel
ADDRESS	CITY	ZIP
100 W Walnut St	Pasadena	91124
EMAIL	TELEPHONE	MOBILE
carrie.crozier@parsons.com	626-440-2747	626-482-4088

ATTACH ALL SUPPORTING DOCUMENTS, INCLUDING:

☑ written narrative describing work plan details

☒ vertical well diagram detailing depths, sizes, thicknesses, and materials of: (1) the casing, (2) the annular (sanitary) seal, (3) the screens/slotting, and (4) any pertinent geological features

☒ scaled drawing of roads, property lines, private sewage disposal systems, surface water features, blue line streams, and other possible sources of contamination within 200 feet of the well site

FOR WELL DECOMMISSION: ☐ well construction logs, ☐ the method of assessment, ☐ type and amount of sealant, and ☐ the method of upper seal pressure application (including PSI and time applied)

PRODUCTION WELLS	
☐ PUBLIC (MUNICIPAL UTILITY)	☐ PRIVATE RESIDENCE
☐ IRRIGATION	☐ CATHODIC PROTECTION
☐ GEOTHERMAL HEAT EXCHANGE	
☐ OTHER	
NAME OF C-57 LICENSEE	
SIGNATURE	

NON-PRODUCTION WELLS	
☐ MONITORING	☐ PIEZOMETER
☐ INJECTION	☐ WATER EXTRACTION
☐ AIR SPARGE	☐ TEST HOLE (PRE-PRODUCTION)
■ HYDROPUNCH	☐ CONE PENETROMETER (CPT)
☐ SOIL BORING	☐ SVE
NAME OF APPLICANT	
Carrie Crozier	
SIGNATURE	

BY SIGNING ABOVE, I HEREBY AGREE TO COMPLY IN EVERY RESPECT WITH ALL THE REGULATIONS, ORDINANCES, AND LAWS OF THE STATE OF CALIFORNIA, THE COUNTY OF LOS ANGELES, THE DEPARTMENT OF PUBLIC HEALTH, AND THE ENVIRONMENTAL HEALTH DRINKING WATER PROGRAM

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

Work Plan Approval

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS
1520 EAST I STREET	WILMINGTON	90744	CARRIE.CROZIER@PARSONS.COM

NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
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- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

X	WORK PLAN APPROVED FOR: 2 Soil Boring/Exp. Hole	**PERMIT NUMBER:**	SR0139072	**DATE:**	April 5, 2018

ADDITIONAL APPROVAL CONDITIONS:

- Work plan approval is issued for scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review.
- As indicated on your work plan, please ensure the boring/exploration hole is backfilled within 24 hours of boring construction.
- Ensure to backfill using a tremie pipe under pressure or equivalent equipment with approved cement grout, proceeding upward from the bottom of the boring/exploration hole.
- Ensure soil borings are sealed per California Well Standards 74-90
  - Cement grout mix ratio of 5-6 gallons of water per 94-pound bag of Portland cement.
  - Up to 6% of Bentonite may be added to the cement-based mix.
  - No hydrated Bentonite chips
- Borings/Exploration holes must comply with all applicable requirements published in the California Well Standards (Bulletins 74-81 and 74-90) and the Los Angeles County Code, Title 11.

APPROVED BY:

Isabella C. Kwok, MPA, REHS
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Baldwin Park, Ca 91706
(626) 430-5420

7996

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3016
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

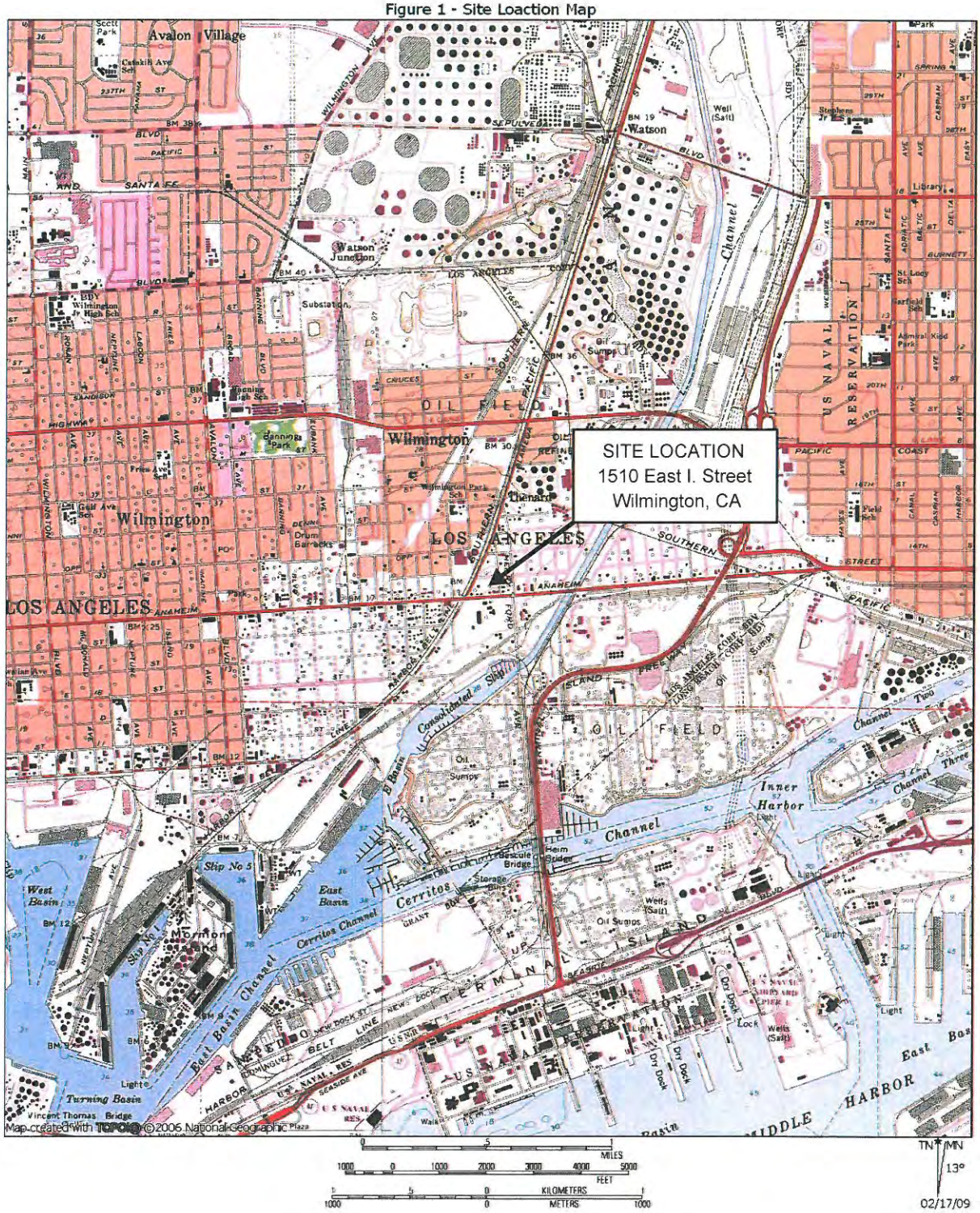
Application submission process:

Completed and signed Application for Well Permit, corresponding Fees and scope of work can be mailed or hand-carried to Environmental Health Headquarters (Attention: Drinking Water Program) at 5050 Commerce Drive, Baldwin Park, 91706. Do not send cash. Make check or money orders payable to Los Angeles County Department of Public Health.

If you wish to pay at one of our satellite offices located at 26415 Carl Boyer Dr., Santa Clarita, CA 91350; or 335-A East Avenue K-6, Lancaster, 93536, please contact the Drinking Water Program at 626-430-5420 to e-mail a copy of your application for processing prior of going to make a payment. Please note that Application for Well Permit with associated documentation must be mailed to Environmental Health Headquarters (Attention: Drinking Water Program) at 5050 Commerce Drive, Baldwin Park, 91706 for further processing.

Application for Well Permit are nontransferable. Cancelations of service requests are subject to a $65.00 processing fee plus additional plan review fees (hourly rate as applicable).

Figure 1 - Site Loaction Map




Site Testing Locations
Legend
1517 E I Street
1519 E I Street
1520 E I Street
E I St
Anaheim St
Google earth
N

TABLE 1
Work Plan
Port of Los Angeles 1500 Block East "I" Street Investigation

Feature of Concern/Release Mechanism	Available Data	Sampling Objective	Proposed Location	Proposed Depth (ft)	Proposed Soil Analyses			Groundwater Sample	Soil Gas Sample
					Surface (0-2 ft bgs)	Vadose Zone (2-10 ft bgs)	Saturated Zone (>10 ft bgs)		
Southern Parcel - used for oil production from at least the 1950s. ASTs were located on-site through the early 1970s. A oil production well was destroyed in 2011. The parcel has mostly been used as an auto dismantling facility trucking terminal since at least 1980. Three ASTs were removed from the Site, two along the western boundary and one from the southeastern corner of the Site. The site has been vacant since 2009, and is unpaved with no structures. Pacific Edge Engineering (2009) conducted a Phase II site assessment and detected petroleum hydrocarbons, PCBs, VOCs, PAHs and metals in soil, groundwater, and soil gas. PAHs were not detected above PRGs. The only metals above the screening levels were arsenic, cadmium, and lead. VOCs Based on site history and historical sampling, metals (arsenic, cadmium, and lead), petroleum hydrocarbons (TPH) and PCBs would be the primary COPCs.									
Western ASTs - unknown (assumed surficial release mechanism)	TPH in soil up to 30,000 mg/kg at GS9 at 0-2.5 ft bgs, and in adjacent boring GS27 VOCs above screening levels at 10 ft bgs. Arsenic consistent with CA background concentration of 12 mg/kg in GS 9 at 0.5 ft bgs. GS27 at 5 ft bgs exceeded the industrial screening level for Ethylbenzene in soil gas with a detection of 1.64 ug/L. LNAPL was detected in the temporary well at GS9.	Confirm and vertically define historical TPH concentrations near GS9.	B-1	15 ft bgs	@0-0.5 ft bgs TPH @1.5-2 ft bgs TPH	'@5 ft bgs TPH, VOCs	@10' TPH, VOCs @15' TPH, VOCs	**Set Temp Well, collect groundwater sample for TPH, VOCs if no LNAPL**	SG-1 at 5 ft bgs for VOCs
Eastern AST - unknown (assumed surficial release mechanism)	TPH in soil up to 1,300 mg/kg at GS3 at 2.5 ft bgs. Arsenic in GS3 at a concentration of 14.4 mg/kg at 2.5 ft bgs.	Confirm and vertically define historical TPH and metals concentrations between GS19 and GS3.	B-2	15 ft bgs	@0-0.5 ft bgs TPH, Arsenic @1.5-2 ft bgs TPH, Arsenic	@5 ft bgs TPH, hold Arsenic	@10' TPH, hold Arsenic @15' TPH, hold Arsenic	**Set Temp Well, collect groundwater sample for TPH, VOCs if no LNAPL**	None
Oil well - unknown (well now destroyed)	No surficial soil samples, maximum concentration from samples at 5 and 10 ft bgs was 11 mg/kg.	No further assessment required	--	--	None	None	None	None	None
Metals in soil - 0-2.5 ft bgs, limited data below 2 ft bgs	Cadmium, and Lead exceed DTSC screening Levels in 10 samples in the top 2 ft bgs. Seven samples exceed the Southern California background level for arsenic of 12 mg/kg. Total Chromium elevated above 30 mg/kg at GS5 and GS6.	Confirm and vertically define historical TPH and lead near GS6.	B-3	10 ft bgs	@0-0.5 ft bgs TPH, Lead, Cadmium @1.5-2 ft bgs TPH, Lead, Cadmium	'@5 ft bgs hold TPH, Lead, Cadmium	@10 ft bgs hold TPH, Lead, Cadmium	None	None
		Confirm and vertically define historical TPH, Metals, and PCBs near GS7 and HA8.	B-4	10 ft bgs	@0-0.5 ft bgs TPH, Lead, PCBs @1.5-2 ft bgs TPH, Lead, PCBs	'@5 ft bgs hold TPH, Lead, PCBs	@10 ft bgs hold TPH, Lead, PCBs	None	None
		Horizontally define metals near GS29.	B-5	10 ft bgs	@0-0.5 ft bgs Arsenic, Lead @1.5-2 ft bgs Arsenic, Lead	'@5 ft bgs hold Arsenic, Lead	@10 ft bgs hold Arsenic, Lead	None	None
		Horizontally define PCBs and metals near GS30.	B-6	10 ft bgs	@0-0.5 ft bgs Arsenic, Lead PCBs @1.5-2 ft bgs Arsenic, Lead PCBs	'@5 ft bgs hold Arsenic, Lead PCBs	@10 ft bgs hold Arsenic, Lead, PCBs	None	None
VOCs in Soil Gas	Maximum concentration of 0.984 µg/L benzene at GS2 at 5 ft bgs in 2007 southwest of former oil well and north of eastern ASTs.	Assess current soil gas concentrations at location with maximum soil gas concentrations in 2007/2008 to ascertain if there is a potential vapor intrusion risk.	SG-2	Install probe at 5 ft bgs	None	@ 5 ft bgs VOCs	None	None	SG-2 at 5 ft bgs for VOCs

TABLE 1
Work Plan
Port of Los Angeles 1500 Block East "I" Street Investigation

Feature of Concern/Release Mechanism	Available Data	Sampling Objective	Proposed Location	Proposed Depth (ft)	Proposed Soil Analyses			Groundwater Sample	Soil Gas Sample
					Surface (0-2 ft bgs)	Vadose Zone (2-10 ft bgs)	Saturated Zone (>10 ft bgs)		
Northern Parcel - appears to have been a vacant lot from aerial photos from 1952 through 1980. The lot was used for auto dismantling/storage in the 1990s and is now a vacant lot again. No soil, groundwater, or soil gas data is available for this property. Groundwater flows to the southwest, and a there are multiple industrial properties up-gradient to the northeast that provide a potential source for impacted groundwater under the property.									
No known sources on-site except sitewide auto dismantling.	No data available	Establish a baseline value for potential contaminants in soil, soil gas, and groundwater. Borings B-7 through B-15 will be on a rectangular grid with approximate 50 foot spacing. One sample will be collected within each grid cell; the specific location of the boring within each grid cell will be determined in the field.	B-7 through B-15	15 ft bgs	@0-0.5 ft bgs TPH, Title 22 Metals, Mercury, PCBs, PAH @1.5-2 ft bgs TPH, Title 22 Metals, Mercury, PCBs, PAH, VOCs	@5 TPH, Title 22 Metals, Mercury, PCBs, PAH, VOCs	@10 TPH, Title 22 Metals, Mercury, PCBs, PAH, VOCs @15 TPH, Title 22 Metals, Mercury, PCBs, PAH, VOCs	**Three temporary wells will be installed and grab groundwater samples will be collected for TPH, VOCs, and SVOCs. Locations will be selected after historical site review and site walk.**	Vapor probes GS-3 through SG-11 will be installed at 5 ft bgs and sampled for VOCs.
				10 ft bgs	@0-0.5 ft bgs TPH, Title 22 Metals, Mercury, PCBs, PAH @1.5-2 ft bgs TPH, Title 22 Metals, Mercury, PCBs, PAH, VOCs	@5 TPH, Title 22 Metals, Mercury, PCBs, PAH, VOCs	@10 TPH, Title 22 Metals, Mercury, PCBs, PAH, VOCs	None	

Estimated depth to water between 10.5 and 12.5 ft bgs.

All borings to be backfilled with hydrated bentonite chips at conclusion of sampling.

Hydropunch samples to be collected through a hydropunch sampler or a temporary PVC casing. All hydropunch borings to be destroyed less than 24 hours after drilling.

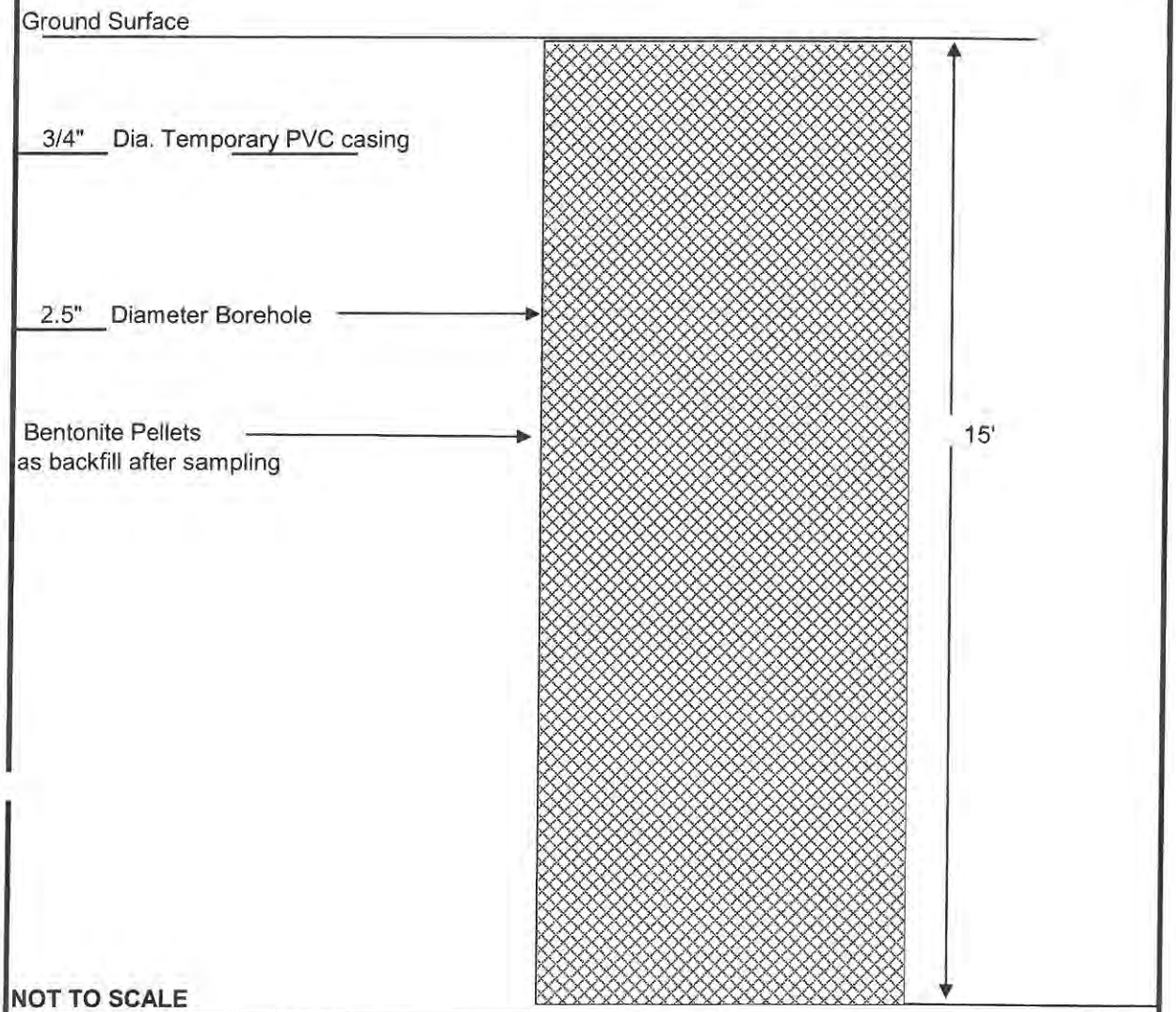
All soil gas points will be temporary, tubing will be removed after sampling is completed.

All borings will be hand augered to 5 ft bgs. Borings deeper than 5 ft bgs will be completed with a direct push drill rig by a C57 licensed driller (Gregg Drilling and Testing).

PARSONS

HYDROPUNCH BORING CONSTRUCTION DIAGRAM

Figure 1 Monitoring Well



NOT TO SCALE

PARSONS	Well Construction Diagram
Drawn: CC 3/19/2018 Approved: CC 3/19/2018	

APPENDIX B

Boring Logs

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: SG-2
Sampling Method: HA	Sheet: 1 of 1
Weather Conditions: Sunny	Drilling Start Date: 4/16/15 Time: 0745
Surface Conditions: Dirt	Drilling Finish Date: Time:
Notes:	

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
							0		
							1		bentonite chips
							2		
							3		#8
							4		
	0753	—		0.0					SAND with gravel, trace silt, dark brown, dry, angular gravel to 3/4"
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B1
Sampling Method: HA / DP	Sheet: 1 of 2
Weather Conditions: Sunny	Drilling Start Date: 4/16/19
Surface Conditions: Dirt	Drilling Finish Date:
Notes:	Start Time:
	Finish Time:

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
				0.4			0	SM	SAND w/ silt and tar balls. Tar balls up 3" low to medium plasticity / brown, fine sand, dry
				0.1			1		@ 2 ft. red brown fine tar balls w/ max diameter ½"
							2		
							3		
							4		
	1036	—		0.1			5	ML	SILT with SAND, red/brown, moist, f sand, trace c sand, loose.
							6		
							7	SP	SAND, trace fine gravel, f-c sand moist, loose gray / @ 7.5' m gravel, mottled gray w/ red oxidation bands to cobble
							8		
							9		
	1049			0.1			10	SM	SAND with silt medium gray mottled w/ oxidized bands to white cobble bands

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B1
Sampling Method:	Sheet: 2 of 2
Weather Conditions:	Drilling Start Date: 9/15/18
Surface Conditions:	Drilling Finish Date:
Notes:	Start Time:
	Finish Time:

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses: 0

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
							0	SM	as above
							1		
							2		
							3	SP	SAND, brown, f, moist, loose, MICA, medium grained sand grains
							4		G/A gray, as above
							5		Installed temp well, screen 10-5' Backfilled w/ sand Installed vapor probe 2 ft west w/ screen 6-5' sand bent. 5.5-4' bentonite trap 4.5-2' [illegible] chips 2-0
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B2
Sampling Method: HAND	Sheet: 1 of
Weather Conditions: Sunny	Drilling: Start Date: 4/16/15 Finish Date:
Surface Conditions: Dirt	Start Time: 0902 Finish Time:
Notes:	

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.: PID Mini RAE 3000

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Carrie Crozier ☐ Yes ☐ No

Personal Sampling:

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	0909	—					0	SP	Sand with gravel dark brown dry angular gravel to 1.5" range, some silt loose fine sand @ 0.5' hard
							1		
	0911	—		0.0				SM	Sand w/ silt, dark brown, dry dense fine sand
							2		
							3		
							4		
	0857			4.2			5	CL	CLAY Dark gray brown, moist hard, trace silt & sand, petroleum odor, low plasticity
							6		
								SM	SAND with silt, mottled dark gray & medium gray, fine sand, petroleum odor, wet, dense
							7		
							8		
							9		
	0902			3.5			10	SM	Sand w/ silt & clay, dark gray fine sand petroleum odor, wet

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B2
Sampling Method:	Sheet: 2 of 2
Weather Conditions:	Drilling Start Date: 4/16/19
Surface Conditions:	Drilling Finish Date:
Notes:	Start Time:
	Finish Time:

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample Container:

Sample Analyses: 0

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
							10		
							11	SM	Silty SAND - mottled light gray & dark gray, petroleum odor, f sand, moist, loose
							12		
							13		
	0911			5.1			14	SP	SAND, fine, dark gray, saturated, loose, petroleum odor
							15		Temp well installed w/ screen 10-15 ft bgs
							16		Vapor filter installed w/ sand from 0-5', bentonite chip from 3.5-5'
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number B3
Sampling Method: HA/DP	Sheet 1 of 1
Weather Conditions: Sunny, windy	Drilling Start / Finish
Surface Conditions: Dirt	Date 4/16/18 / Date
Notes:	Time 1405 / Time

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1406						0	SM	Silty SAND with gravel, f-c sand dry loose glass shard
							1	SP	SAND w/ Silt red brown, w/ glass metal debris, f-c Sand dry, loose
							2		
							3		
							4		
	1427						5	ML	Silt w/ sand & clay, brown, f sand moist micq
							6		
							7		
							8		
							9	SP	SAND lt gray-brown, moist f sand zones of red oxidation
	1432						10	EOB	

Field Boring Log

PARSONS

Job No. | Client/Site: POLA/ 1517-1520 E I St Wilmington, CA

Location of Boring/Well:

Drilling Co./Method: Gregg Drilling

Boring/Well Number: B4

Sampling Method: HA/DP

Sheet: 1 of

Weather Conditions: Sunny / windy

Drilling Start Date: 4/16/18 Time: 1305

Drilling Finish Date: Time:

Surface Conditions: Dirt

Notes:

Datum:

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1315 1317			0.0			0	SM	Silty SAND with gravel, brown dry / loose gravel up to 2", glass
							1		as above red brown, no glass
							2		
							3		
							4		
	1402						5	ML	Sandy SILT, brown, f sand moist dense
							6		
							7	SP	SAND w/ silt, light brown-gray
							8	SP	@ 8.25' lens w/ fine gravel @ 8-8.6 fine gray sand moist
	1408						9	SP	
							10		

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B5
Sampling Method: HA/DP	Sheet: 1 of
Weather Conditions: sunny, windy	Drilling Start Date: 4/16/19 Time: 1102
Surface Conditions: Dirt	Drilling Finish Date: Time:

Notes:

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.:

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1107	–		0.1			0	SP	SAND w/silt and gravel f-c sand red-brown rounded gravel to 1.5" loose dry
	1112			0.1			1		as above w/ charcoal chunks to 3/4"
	1135						5		as above, no iron balls, moist
							6	SP	SAND ltgray-brown mottled w/ caliche bands, moist, f sand
							8		GB as above w/ oxidation in veins
	1138						9		
							10	FOB	

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number B6
Sampling Method: HA / DP	Sheet 1 of
Weather Conditions: Sunny, windy	Drilling Start Date 4/16/19 Finish Date
Surface Conditions: Dirt	Time 1230 Time
Notes:	

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1233						0	SM	Silty SAND, brown, f-c sand, trace rounded gravel to ½", dry, loose
							1		
	1238								95 gloves
							2		
							3		
							4		
	1300						5	SP	SAND, red-brown, f sand, moist mica
							6		
							7		@7' mx'd w/ red-orange staining
							8		
							9	SP	Gray SAND w/ silt, moist, f sand mica
	1302								
							10		

Field Boring Log

PARSONS

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B7
Sampling Method:	Sheet 1 of 2
Weather Conditions:	Drilling Start Date: 4/17/18 Finish Date:
Surface Conditions: Dirt	Time: 0838 Time:

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

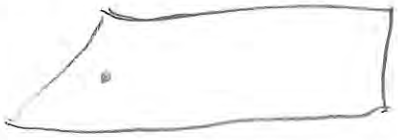
Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	Notes
	0839			0.0			0	SM	Silty SAND, brown, dry, f-c sand, some subangular gravel to 1.5 inches
	0844			0.0			1	ML	Sandy SILT, medium brown, f sand, moist
	0909			0.0			5		as above
							8	SP	SAND, f sand, lt tan-brown, moist, caliche
							9		@9.5' saturated
	0919			0.0			10		

PARSONS

Field Boring Log

Location of Boring/Well:



Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B7
Sampling Method: HA/DP	Sheet 2 of 2
Weather Conditions: Sunny	Drilling Start Date: 4/17/18
Surface Conditions: D.C.	Drilling Finish Date:
Notes:	Drilling Start Time:
	Drilling Finish Time:

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses: 0

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
							0	SP	as above, lt gray fine sand, saturated
							1		
							2		
							3		
							4		
	0928			0.0			5	FOB	Temp well for Sonic 17-10ft 10.5 3/4" PVC
							6		Vadose Placement screen up 5.5' 3.0') 5.5 - 4.5 #8 bentonite 4.5 - 3.5 bentonite chips 3.5 - 0 bent
							7		
							8		
							9		
							10		

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number 138
Sampling Method: HA 10'	Sheet 1 of 1
Weather Conditions: Sunny	Drilling Start Date 4/17/18 Finish Date
Surface Conditions: Dirt	Time 1120

Notes:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1122 1124			0.0			0	SP	SAND, lt/ silt + gravel, lt. gray brown, sub rounded gravel 1/8" 2", f-c sand, dry, loose
	1131			0.0			1	SM	Silty SAND, red brown, f-m sand, moist, loose
							2		
							3		
							4		
	1146			0.0			5		as above
							6		
							7		
							8	SP	SAND - lt gray brown, f sand moist, mica
							9		
	1152			0.0			10	FAB	Vapor probe set @ 5' sand 5-4.5 ft, bentonite 4.5-3.5, bent. chips 3.5-0

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number B9
Sampling Method:	Sheet 1 of 1
Weather Conditions:	Drilling Start / Finish
Surface Conditions: Dirt	Date 4/17/18 / Date
Notes:	Time 1250 / Time

Geologist: C. Crozier

Reviewed By:

Type or Instrument Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

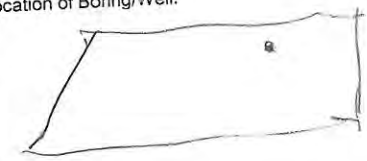
Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1255			0.0			0	SM	SAND with silt, f-C sand, dry lt brown w/gravel to 1.3' roots, loose
							1		
	1301			0.0					as above
							2		
							3		
							4		
	1310			0.0			5	ML	Sandy SILT w/ clay, dark brown moist, dense, mica
							6		
							7		
							8		
							9		
	1318			0.0				SP	SAND f-grnd lt gray moist
							10	EOB	See Vapor probe @ 5 ft sand @ 1.45 ft bentonite @ 2 ft chips 2.5-3 ft bgs

Field Boring Log

PARSONS

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B10
Sampling Method: HA/DP	Sheet 1 of 1
Weather Conditions: Sunny windy	Drilling Start Date: 4/17/18 Finish Date:
Surface Conditions: Dirt	Time: 1340 Time:

Location of Boring/Well:



Datum:

Notes:

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1342			0.0			0	SM	SAND w/silt + gravel, f-c sand lt gray-brown, gravel to 1", glass, plant material
	1345			0.0			1		as above
							2		
							3		
							4		as above, moist
	1400			0.0			5		
							6	SP	SAND f sand brown, moist, minor
							7		
							8	SP	Sand, low silty saturated, clasts brown, f sand
							9		
	1405						10	EOB	

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B11
Sampling Method: HSA / DP	Sheet: 1 of 2
Weather Conditions: Sunny	Drilling Start Date: 4/18/18
Surface Conditions: Dirt	Drilling Finish Date:
Notes:	Start Time: 0730
	Finish Time:

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.:

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	0732			0.1			0	SM	Silty SAND w/ gravel, lt brown f-c sand, gravel to 3/4", dry, loose plant material (roots, twigs)
							1		
	0736			0.0					as above
							2		
							3		
							4		
	0805			0.0			5		Silty SAND, medium brown f sand moist
							6	SP	SAND, f sand gray-brown, wet mica
							7		
							8		
							9	▽	DTW 9.5ft bgs
	0814 0820			0.0			10		
									@10.5 SPS refusal

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number B1
Sampling Method:	Sheet 2 of 2
Weather Conditions:	Drilling Start Date 4/18/18 Finish Date
Surface Conditions:	Start Time 0730 Finish Time
Notes:	

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.:

Calibration Date/Gas:

Sample Container:

Sample Analyses: 0

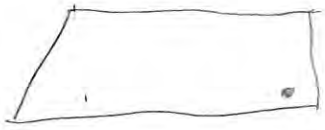
Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
							10	SP	
							11		
							12		Grout ag abrasive, oxide slurry
							13	SP	SAND w silt, saturated, dark brown, mica, f sand w trace m-c sand
							14		
	0834			0.0			15	FILL	Temp well set w/screen 10-15' vapor probe set @ 5' sand 5.5-9.5' bent chips 3.5-0 ft
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:



Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B12
Sampling Method: HA HSP	Sheet: 1 of 1
Weather Conditions: Sunny	Drilling Start Date: 4/19/17 Time: 0915
Surface Conditions: Dirt	Drilling Finish Date: Time:
Notes:	

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	0920			0.0			0	SP	SAND with gravel + silt, lt brown f-c sand, trace gravel to 1.5 inches concrete rubble
							1		
	0925			0.0					as above
							2		
							3		
							4		
							5	SP	SAND, brown, moist, f sand, w/ cg
							6		
							7		@ 7.75 saturated
							8		@ 8.25 oxide staining
							9		
							10		EOB

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B13
Sampling Method: HAND	Sheet 1 of 1
Weather Conditions: Sunny	Drilling Start Date: 4/18/18 Finish Date:
Surface Conditions: Dirt	Start Time: 0837 Finish Time:
Notes:	

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	0839			0.0			0	SM	SILTY SAND, lt gray-brown, f-c sand, w/ gravel to 2" loose
				7.0			1		
	0850								as above, moist, gravel to ½"
							2		
							3		
							4		
	0857			0.0				SP	SAND, gray-brown, f sand, moist trace fines
							5		
							6		
									GS: 75 red oxidation in bands
							7		
								SP	SAND, w/ silt, dark brown, f sand moist
							8		
							9		
	0905			0.0					
							10	FAB	Vapor Probe installed GS' sand 14.5-7', #1 bentonite 4.5-3.5' bentonite chips 3.5-0'

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B14
Sampling Method: HA/DP	Sheet 1 of 2
Weather Conditions: Sunny, windy	Drilling Start Date: 4/17/19 Time: 0940
Surface Conditions: Dirt	Drilling Finish Date: Time:
Notes:	

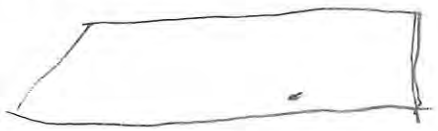
Geologist: C. Crozier
Reviewed By:
Type of Instrument/Serial No.
Calibration Date/Gas:
Sample Container:
Sample Analyses:
Personal Sampling: ☐ Yes ☐ No
Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	0941			0.0			0	SM	Silty SAND w/ gravel, dry, f-c sand, debris - glass, plastic, metal, fibers, cloth, asphalt shingle, gravel to 1"
							1		
	0946			0.0					A, dense, no debris, gravel to ½"
							2		
							3		
							4		
	1016			0.0			5	ML	Dark brown SILT, moist, dense, mica
							6		
							7		
							8	SW	SAND, f sand, med. brown, moist, trace silt
							9		
	1013			0.0			10		GRAVEL, no silt
									GRAVEL, some sand, moist

PARSONS

Field Boring Log

Location of Boring/Well:



Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B14
Sampling Method:	Sheet: 2 of 2
Weather Conditions:	Drilling Start Date: 4/17/18
Surface Conditions:	Drilling Finish Date:
Notes:	Drilling Start Time: 0940
	Drilling Finish Time:

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses: 0

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
							0		
								▽	DTW 10.89
							1		
							2		
							3		as above, minor amount of vertical staining
							4		
	1020			0.0					as above
							5		3/4" PVC temp well set screen 10-15 ft bgs vapor probe installed @ 5' and 5.5-45 for bentonite 4.5-3.5' bentonite chips 3.5-0'
							6		
							7		
							8		
							9		
							10		

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B15
Sampling Method: HA (DP)	Sheet: 1 of 1
Weather Conditions: Sunny	Drilling Start Date: 4/17/18 Time: 1040
Surface Conditions: Dirt	Drilling Finish Date: Time:
Notes:	

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1044			0.0			0	SM	SAND w/ silt, lt gray-brown, dry, + some gravel, lighter zones
							1		
	1049			0.0					
							2		@ 2' trace gravel, as above
							3		
							4		
	1105			0.0			5	ML	SILT w/ sand, few rounded gravel, medium brown, f-c sand, more gravel to 1/2"
							6		
							7		
							8		
							9	SW	SAND, f sand, moist, tan & light gray w/ oxidized red-orange bands.
	1111			0.0					
							10	EOB	Vapor probe installed w/ Solcon @ 5'. Sand @ 5-3.5', #2 bentonite 3.5-3.0', bent. chips 3.0 ft bgs

APPENDIX C

EMAX Soil and Groundwater Analytical Reports

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 04-30-2018
EMAX Batch No.: 18D131

Attn: Carrie Crozier

Parsons
100 West Walnut Street
Pasadena CA 91124

Subject: Laboratory Report
Project: POLA-1500 I STREET

Enclosed is the Laboratory report for samples received on 04/16/18.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
B5-0.5	D131-01	04/16/18	SOIL	ARSENIC
				LEAD
				HOLD
B5-2	D131-02	04/16/18	SOIL	ARSENIC
				LEAD
				HOLD
B5-5	D131-03	04/16/18	SOIL	HOLD
B5-10	D131-04	04/16/18	SOIL	HOLD
B6-0.5	D131-05	04/16/18	SOIL	ARSENIC
				LEAD
				HOLD
				POLYCHLORINATED BIPHENYLS (PCBS)
B6-2	D131-06	04/16/18	SOIL	ARSENIC
				LEAD
				HOLD
				POLYCHLORINATED BIPHENYLS (PCBS)
B6-5	D131-07	04/16/18	SOIL	HOLD
B6-10	D131-08	04/16/18	SOIL	HOLD

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912017-13
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: ~~451104~~ 451077
SAMPLE STORAGE

EMAX CONTROL NO. 18D131
PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA Parcel H
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT: ☐ Rush __24__hrs. ☐ Rush __48_hrs ☐ Rush_72_hrs ☑ 7 days ☐ 14 days ☐ 21 days

LAB	SAMPLE ID CLIENT	LOCATION	SAMPLING DATE	SAMPLING TIME	CONTAINER NO.	CONTAINER SIZE	CONTAINER TYPE	MATRIX CODE	QC	ANALYSIS REQUIRED: TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
* 1	B5-0.5		4/16/18	1107	1			SS					X		X				H	
* 2	B5-2		4/16/18	1112	1			SS					X		X				H	
* 3	B5-5		4/16/18	1135	1			SS					H		H				H	
* 4	B5-10		4/16/18	1139	1			SS					H		H				H	
* 5	B6-0.5		4/16/18	1235	2			SS					X		X		X		H	
* 6	B6-2		4/16/18	1238	2			SS					X		X		X		H	
* 7	B6-5		4/16/18	1300	2			SS					H		H		H		H	
* 8	B6-10		4/16/18	1302	2			SS					H		H		H		H	
* 9	~~B7-0.5~~ CC							SS		X	CC					X	X	X	H	
10	~~B7-2~~ CC							SS		X	X CC					X	X	X	H	

Instructions

Cooler #	Temp. (°C)	Sample #s
1	6.1	
2	2.8	
3	5.6	

SAMPLER
COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/16/18	1527	
	04/16/18	16:00	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 18D131
☐ Fedex ☐ UPS ☐ GSO ☒ Others	All around courier	Recipient Miguel
☐ EMAX Courier ☐ Client Delivery		Date 04/16/18 Time 16:06

COC INSPECTION

☒ Client Name	☒ Client PM/FC	☐ Sampler Name	☒ Sampling Date/Time	☒ Sample ID	☒ Matrix
☒ Address	☒ Tel # / Fax #	☒ Courier Signature	☒ Analysis Required	☒ Preservative (if any)	☒ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: Correction on COC not dated

PACKAGING INSPECTION

Container	☒ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☒ Intact	☐ Damaged		
Packaging	☒ Bubble Pack	☐ Styrofoam	☐ Popcorn	☒ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☒ Cooler 1 6.1 °C	☒ Cooler 2 2.8 °C	☒ Cooler 3 5.6 °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	*A - S/N* _____	*B - S/N* 150555522	*C - S/N* _____	(D) *S/N* 150555020	

Comments: ☒ Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action

04/16/18

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

RB 4/1

NOTES/OBSERVATIONS: TA 04/16/18

☐ Continue to next page.

LEGEND:

Code	Description- Sample Management
D1	Analysis is not indicated in _____
D2	Analysis mismatch COC vs label
D3	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in _____
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
D10	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
D16	Preservation not indicated in _____
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
D22	_____
D23	_____
D24	_____

Code	Description-Sample Management
R1	Proceed as indicated in ☐ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	_____
R9	_____
R10	_____
R11	_____
R12	_____

REVIEWS:

Sample Labeling Date 04/16/18 / 4/16/18

SRF _____ Date 4/16/18

PM _____ Date 4/18/18

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW3550B/SW8082
PCBs

SDG#: 18D131

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D131

METHOD SW3550B/SW8082
PCBS

A total of two (2) soil samples were received on 04/16/18 to be analyzed for PCBs in accordance with Method SW3550B/SW8082 and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. 60D016SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. 60D016SL/60D016SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Relative percentage difference (RPD) between the two results was evaluated. If RPD is less than 40% and peaks are well defined the higher result is reported. Where RPD is greater than 40% the chromatogram was checked for anomalies and results were selected based on processed knowledge. If there is no evidence of any chromatographic ambiguity, the higher result is reported.

Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample extracts subjected to appropriate cleanup technique to reduce matrix interference are recorded in extraction log. Refer to extraction log for details.

LAB CHRONICLE
PCBs

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D131
Instrument ID : 71

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	60D016SB	1	NA	04/24/1803:36	04/20/1815:05	KD23032A	KD23021A	CPD016S	Method Blank
LCS1S	60D016SL	1	NA	04/23/1819:32	04/20/1815:05	KD23008A	KD23005A	CPD016S	Lab Control Sample (LCS)
LCD1S	60D016SC	1	NA	04/23/1819:52	04/20/1815:05	KD23009A	KD23005A	CPD016S	LCS Duplicate
B6-0.5	D131-05	1	5.6	04/23/1820:12	04/20/1815:05	KD23010A	KD23005A	CPD016S	Field Sample
B6-2	D131-06	1	6.4	04/23/1820:32	04/20/1815:05	KD23011A	KD23005A	CPD016S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW3550B/SW8082
PCBs

Client : PARSONS		Date Collected: 04/16/18	
Project : POLA-1500 I STREET		Date Received: 04/16/18	
Batch No. : 18D131		Date Extracted: 04/20/18 15:05	
Sample ID: B6-0.5		Date Analyzed: 04/23/18 20:12	
Lab Samp ID: D131-05		Dilution Factor: 1	
Lab File ID: KD23010A		Matrix : SOIL	
Ext Btch ID: CPD016S		% Moisture : 5.6	
Calib. Ref.: KD23005A		Instrument ID : GCT071	

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	53	18 | 18
PCB-1221	(ND) | ND	53	18 | 18
PCB-1232	(ND) | ND	53	18 | 18
PCB-1242	(ND) | ND	53	18 | 18
PCB-1248	(ND) | ND	53	18 | 18
PCB-1254	(ND) | ND	53	18 | 18
PCB-1260	(ND) | ND	53	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	14.47 | (14.70)	14.12	102 | (104)	50-130
DECACHLOROBIPHENYL	(16.26) | 14.66	14.12	(115) | 104	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/16/18
Project	: POLA-1500 I STREET	Date Received	: 04/16/18
Batch No.	: 18D131	Date Extracted	: 04/20/18 15:05
Sample ID	: B6-2	Date Analyzed	: 04/23/18 20:32
Lab Samp ID	: D131-06	Dilution Factor	: 1
Lab File ID	: KD23011A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: 6.4
Calib. Ref.	: KD23005A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	53	18 | 18
PCB-1221	(ND) | ND	53	18 | 18
PCB-1232	(ND) | ND	53	18 | 18
PCB-1242	(ND) | ND	53	18 | 18
PCB-1248	(ND) | ND	53	18 | 18
PCB-1254	(ND) | ND	53	18 | 18
PCB-1260	(ND) | ND	53	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.72 | (14.05)	14.24	96.3 | (98.7)	50-130
DECACHLOROBIPHENYL	(16.25) | 14.45	14.24	(114) | 101	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

QC SUMMARIES

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: NA
Project	: POLA-1500 I STREET	Date Received	: 04/20/18
Batch No.	: 18D131	Date Extracted	: 04/20/18 15:05
Sample ID	: MBLK1S	Date Analyzed	: 04/24/18 03:36
Lab Samp ID	: 60D016SB	Dilution Factor	: 1
Lab File ID	: KD23032A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: NA
Calib. Ref.	: KD23021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	50	17 | 17
PCB-1221	(ND) | ND	50	17 | 17
PCB-1232	(ND) | ND	50	17 | 17
PCB-1242	(ND) | ND	50	17 | 17
PCB-1248	(ND) | ND	50	17 | 17
PCB-1254	(ND) | ND	50	17 | 17
PCB-1260	(ND) | ND	50	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.79 | (14.15)	13.33	103 | (106)	60-130
DECACHLOROBIPHENYL	(17.67) | 14.59	13.33	(133) | 109	70-140

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D131
METHOD: SW3550B/SW8082

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	60D016SB	60D016SL	60D016SC		
LAB FILE ID:	KD23032A	KD23008A	KD23009A		
DATE EXTRACTED:	04/20/1815:05	04/20/1815:05	04/20/1815:05	DATE COLLECTED:	NA
DATE ANALYZED:	04/24/1803:36	04/23/1819:32	04/23/1819:52	DATE RECEIVED:	04/20/18
PREP. BATCH:	CPD016S	CPD016S	CPD016S		
CALIB. REF:	KD23021A	KD23005A	KD23005A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND)|ND	167	(154)|148	(92)|89	167	(171)|166	(103)|100	(10)|11	70-140	50
PCB-1260	(ND)|ND	167	(180)|150	(108)|90	167	(185)|166	(111)|100	(3)|10	70-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.33	(11.91)|10.98	(89.4)|82.4	13.33	(13.48)|12.98	(101)|97.4	60-130
Decachlorobiphenyl	13.33	(15.50)|13.26	(116)|99.5	13.33	(15.74)|14.20	(118)|107	70-140

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3050B/6010B
METALS BY TRACE ICP

SDG#: 18D131

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D131

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of four (4) soil samples were received on 04/16/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD025SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD025SL/IPD025SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D131
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD025SB	1.000	NA	04/23/1819:55	04/19/1811:06	ID8D018085	ID8D018083	IPD025S	Method Blank
LCS1S	IPD025SL	1.000	NA	04/23/1819:59	04/19/1811:06	ID8D018086	ID8D018083	IPD025S	Lab Control Sample (LCS)
LCD1S	IPD025SC	1.000	NA	04/23/1820:03	04/19/1811:06	ID8D018087	ID8D018083	IPD025S	LCS Duplicate
B5-0.5	D131-01	1.000	6.2	04/23/1820:06	04/19/1811:06	ID8D018088	ID8D018083	IPD025S	Field Sample
B5-2	D131-02	1.000	8.8	04/23/1820:10	04/19/1811:06	ID8D018089	ID8D018083	IPD025S	Field Sample
B6-0.5	D131-05	1.000	5.6	04/23/1820:14	04/19/1811:06	ID8D018090	ID8D018083	IPD025S	Field Sample
B6-2	D131-06	1.000	6.4	04/23/1820:18	04/19/1811:06	ID8D018091	ID8D018083	IPD025S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/16/18 11:07
Project : POLA-1500 I STREET	Date Received: 04/16/18
SDG NO. : 18D131	Date Extracted: 04/19/18 11:06
Sample ID: B5-0.5	Date Analyzed: 04/23/18 20:06
Lab Samp ID: D131-01	Dilution Factor: 1
Lab File ID: ID8D018088	Matrix: SOIL
Ext Btch ID: IPD025S	% Moisture: 6.2
Calib. Ref.: ID8D018083	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	4.82	1.06	0.422
Lead	46.1	1.06	0.211

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.01g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 11:12
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D131	Date Extracted:	04/19/18 11:06
Sample ID:	B5-2	Date Analyzed:	04/23/18 20:10
Lab Samp ID:	D131-02	Dilution Factor:	1
Lab File ID:	ID8D018089	Matrix:	SOIL
Ext Btch ID:	IPD025S	% Moisture:	8.8
Calib. Ref.:	ID8D018083	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	4.64	1.04	0.418
Lead	85.5	1.04	0.209

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.05g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 12:33
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D131	Date Extracted:	04/19/18 11:06
Sample ID:	B6-0.5	Date Analyzed:	04/23/18 20:14
Lab Samp ID:	D131-05	Dilution Factor:	1
Lab File ID:	ID8D018090	Matrix:	SOIL
Ext Btch ID:	IPD025S	% Moisture:	5.6
Calib. Ref.:	ID8D018083	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	4.98	1.03	0.411
Lead	31.6	1.03	0.206

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.03g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 12:38
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D131	Date Extracted:	04/19/18 11:06
Sample ID:	B6-2	Date Analyzed:	04/23/18 20:18
Lab Samp ID:	D131-06	Dilution Factor:	1
Lab File ID:	ID8D018091	Matrix:	SOIL
Ext Btch ID:	IPD025S	% Moisture:	6.4
Calib. Ref.:	ID8D018083	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	4.68	1.03	0.411
Lead	6.94	1.03	0.206

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.04g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: NA
SDG NO. : 18D131	Date Extracted: 04/19/18 11:06
Sample ID: MBLK1S	Date Analyzed: 04/23/18 19:55
Lab Samp ID: IPD025SB	Dilution Factor: 1
Lab File ID: ID8D018085	Matrix: SOIL
Ext Btch ID: IPD025S	% Moisture: NA
Calib. Ref.: ID8D018083	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	ND	1.00	0.400
Lead	ND	1.00	0.200

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D131
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPD025SB	IPD025SL	IPD025SC
LAB FILE ID	: ID8D018085	IDBD018086	ID8D01B0B7
DATE PREPARED	: 04/19/18 11:06	04/19/18 11:06	04/19/18 11:06
DATE ANALYZED	: 04/23/18 19:55	04/23/18 19:59	04/23/18 20:03
PREP BATCH	: IPD025S	IPD025S	IPD025S
CALIBRATION REF	: ID8D018083	ID8D018083	ID8D018083

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Arsenic	ND	50	49.3	99	50	48.7	97	1	80-120	20
Lead	ND	50	48.8	98	50	48.2	96	1	80-120	20

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 05-04-2018
EMAX Batch No.: 18D132

Attn: Carrie Crozier

Parsons
100 West Walnut Street
Pasadena CA 91124

Subject: Laboratory Report
Project: POLA-1500 I STREET

Enclosed is the Laboratory report for samples received on 04/16/18.
The data reported relate only to samples listed below :

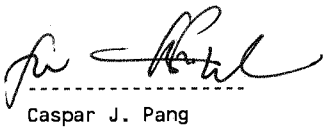
Sample ID	Control #	Col Date	Matrix	Analysis
B1-0.5	D132-01	04/16/18	SOIL	TPH GASOLINE
B1-2.0	D132-02	04/16/18	SOIL	TPH GASOLINE
B1-5.0	D132-03	04/16/18	SOIL	TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
B1-10.0	D132-04	04/16/18	SOIL	TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
B1-15.0	D132-05	04/16/18	SOIL	TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
B2-0.5	D132-06	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				ARSENIC
				HOLD
B2-2	D132-07	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				ARSENIC
				HOLD
B2-5	D132-08	04/16/18	SOIL	HOLD
B2-10	D132-09	04/16/18	SOIL	HOLD
B2-15	D132-10	04/16/18	SOIL	HOLD
B3-0.5	D132-11	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				LEAD
				CADMIUM
B3-2	D132-12	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				LEAD
				CADMIUM
B3-5	D132-13	04/16/18	SOIL	HOLD
B3-10	D132-14	04/16/18	SOIL	HOLD
B4-0.5	D132-15	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				LEAD
				POLYCHLORINATED BIPHENYLS (PCBS)
B4-2	D132-16	04/16/18	SOIL	TPH GASOLINE

Sample ID	Control #	Col Date	Matrix	Analysis
B4-2	D132-16	04/16/18	SOIL	TPH DIESEL & MOTOR OIL
				HOLD
				LEAD
				POLYCHLORINATED BIPHENYLS (PCBS)
B4-5	D132-17	04/16/18	SOIL	HOLD
B4-10	D132-18	04/16/18	SOIL	HOLD
B3-2D	D132-19	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				LEAD
				CADMIUM
B4-0.5D	D132-20	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				LEAD
				POLYCHLORINATED BIPHENYLS (PCBS)
SG-2-5	D132-21	04/16/18	SOIL	VOLATILE ORGANICS BY GC/MS
				HOLD
TRIP BLANK	D132-22	04/16/18	WATER	VOLATILE ORGANICS BY GC/MS
B1	D132-23	04/16/18	WATER	TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH DIESEL & MOTOR OIL

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,



Caspar J. Pang
Laboratory Director

EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912017-13
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHAIN OF CUSTODY

EMAX Laboratories, Inc.	1835 W. 205th Street, Torrance, CA 90501 Tel # : 310-618-8889 FAX#: 310-618-0818 Email: info@emaxlabs.com	PO NUMBER: ~~451104~~ 451077 SAMPLE STORAGE	EMAX CONTROL NO. 18D132 PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT: ☐ Rush __24__hrs. ☐ Rush __48_hrs ☐ Rush_72_hrs ☑ 7 days ☐ 14 days ☐ 21 days

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	ANALYSIS REQUIRED / PRESERVATIVE CODE: TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
* 1	B1-0.5		4/16/18	1013	2			SS		X										
* 2	B1-2.0		4/16/18	1017	2			SS		X										
* 3	B1-5.0		4/16/18	1036	5			SS		X	X									
* 4	B1-10.0		4/16/18	1049	5			SS		X	X									
* 5	B1-15.0		4/16/18	1052	5			SS		X	X									
* 6	B2-0.5		4/16/18	0809	3			SS		X			X						H	
* 7	B2-2		4/16/18	0832	3			SS		X			X						H	
* 8	B2-5		4/16/18	0857	3			SS		H			H						H	
* 9	B2-10		4/16/18	0902	3			SS		H			H						H	
10	B2-15		4/16/18	0911	3			SS		H			H						H	

Instructions

Cooler #	Temp. (°C)	Sample #s
1	6.1	
2	2.8	
3	5.6	

SAMPLER

RELINQUISHED BY	Date	Time	COURIER/AIRBILL RECEIVED BY
	4/16/18	527	
	4/16/18	1600	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

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CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
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ADDRESS 100 W Walnut St
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EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☑ 7 days
- ☐ 14 days
- ☐ 21 days

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	SAMPLING DATE	SAMPLING TIME	CONTAINER NO.	CONTAINER SIZE	CONTAINER TYPE	MATRIX CODE	QC	ANALYSIS REQUIRED / PRESERVATIVE CODE: TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
*1	B3-0.5		4/16/18	1406	3			SS		X				X	X				H	
*2	B3-2		1417	~~1419~~ 1419 QC	3			SS		X				X	X				H	
*3	B3-5			1427	3			SS		H				H	H				H	
*4	B3-10			1432	3			SS		H				H	H				H	
*5	B4-0.5			1315	4			SS		X					X		X		H	
*6	B4-2			1337	4			SS		X					X		X		H	
*7	B4-5			1402	4			SS		H					H		H		H	
*8	B4-10			1408	4			SS		H					H		H		H	
*9	B3-2D		1419	~~1319~~ 1419 QC	3			SS		X				X	X				H	
10	B4-0.5D			1317 ~~1317~~	4			SS		X					X		X		H	

Instructions	Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/16/18	1527	
	4/16/18	1600	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

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EMAX Laboratories, Inc.

1835 W. 205th Street, Torrance, CA 90501
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 451077

SAMPLE STORAGE

EMAX CONTROL NO. 18D132

PROJECT CODE:

CLIENT Parsons for Port of LA

PROJECT POLA I Street

COORDINATOR Carrie Crozier

TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com

SEND REPORT TO Carrie Crozier

COMPANY Parsons

ADDRESS 100 W Walnut St

Pasadena CA 91124

EMAX PM Richard Beauvil

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WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☑ 7 days
- ☐ 14 days
- ☐ 21 days

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	SAMPLING DATE	SAMPLING TIME	CONTAINER NO.	CONTAINER SIZE	CONTAINER TYPE	MATRIX CODE	QC	TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
* 1	~~B15-10~~							~~SS~~		~~X~~	~~X~~			CC		~~X~~	~~X~~	~~X~~	~~H~~	
(21) * 2	SG-2-5		4/16/18	0753	3	40mL	VOA	SS		~~CC~~ X	X	~~CC~~ X				~~CC~~ X	~~CC~~ X		H	
(22) * 3	Trip Blank		4/16/18	1456	3						X									
(23) * 4	BH		4/16/18	1145	7	—	·	GW		X	X									
* 5																				
* 6																				
* 7																				
* 8																				
* 9																				
10																				

Instructions	Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/16/18	0527	
	4/16/18	1600	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 18D132
☐ Fedex ☐ UPS ☐ GSO ☑ Others	All Around	Recipient Nevaeh/10
☐ EMAX Courier ☐ Client Delivery		Date 4/16/18 Time 1600

COC INSPECTION

☑ Client Name	☑ Client PM/FC	☐ Sampler Name	☑ Sampling Date/Time	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☑ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: Corrections on COC not dated

PACKAGING INSPECTION

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☐ Intact	☐ Damaged		
Packaging	☐ Bubble Pack	☐ Styrofoam	☐ Popcorn	☐ Sufficient	☐ _____
Temperatures (Cool. ≤6 °C but not frozen)	☑ Cooler 1 6.1 °C	☑ Cooler 2 2.8 °C	☑ Cooler 3 5.6 °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	*A - S/N* _____	*B - S/N* 150555522	*C - S/N* _____	(D) *S/N* 150555620	

Comments: ☐ Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
3	5-9	D3	B1-5 On label	R1
4	10-14	D3	B1-10 On label	↓
5	15-19	D3	B1-15 on label	R8
22	73-76	D1		
23	78,77	D1		
13,20	42,68,69	D10		
1-~~22~~21 No 4 vials		D16	pres not indicated on COC	
22,23		D16	pres not indicated on COC / label (Sediment on Vials)	
2	3,4	D3	B1-2 on label	R1
21		D22	No jar provided for TCLP/STLC - COC reads H	R8
				↓
23	82	D23	See below	R8

4/17/18

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS: Labels attached directly to Pre-weighed vials - Weight is visible

TCLP/STLC not written on labels → See Moisture in 18D138

*1-5 pH samples: Moisture jar not provided with samples *Samples 15-18,20 vials read TPH-PCBs

*Samples 6-10: vials label reads TPH-Arsenic *Samples 11-14: vials read TPH-lead

LEGEND: *19 Samples: vial label reads cadmium-lead

☐ Continue to next page.

Code	Description- Sample Management
(D1)	Analysis is not indicated in Label
D2	Analysis mismatch COC vs label
(D3)	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in _____
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
(D10)	No initial (date) on corrections in COC (label)
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
(D16)	Preservation not indicated in _____
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
(D22)	See above
(D23)	Received 1 L Amber for TPH WCs
D24	

Code	Description-Sample Management
R1	Proceed as indicated in (X) COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	Informed Client.
R9	
R10	
R11	
R12	

REVIEWS:

Sample Labeling _____ Date 4/16/18 4/16/18

SRF _____ Date 4/17/18

PM PB Date 4/17/18

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than LOQ/RL but greater than LOD/MDL/DL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

A total of two (2) water samples were received on 04/16/18 to be analyzed for Volatile Organics by GC/MS in accordance with Method 5030B/8260B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VO67D18B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VO67D18L/VO67D18C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : 67

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V067D18B	1	NA	04/20/1809:26	04/20/1809:26	RDC425	RCC056	V067D18	Method Blank
LCS1W	V067D18L	1	NA	04/20/1808:35	04/20/1808:35	RDC423	RCC056	V067D18	Lab Control Sample (LCS)
LCD1W	V067D18C	1	NA	04/20/1809:01	04/20/1809:01	RDC424	RCC056	V067D18	LCS Duplicate
TRIP BLANK	D132-22	1	NA	04/20/1816:14	04/20/1816:14	RDC441	RCC056	V067D18	Field Sample
B1	D132-23	1	NA	04/20/1816:40	04/20/1816:40	RDC442	RCC056	V067D18	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/16/18
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132	Date Extracted:	04/20/18 16:14
Sample ID:	TRIP BLANK	Date Analyzed:	04/20/18 16:14
Lab Samp ID:	D132-22	Dilution Factor:	1
Lab File ID:	RDC441	Matrix	: WATER
Ext Btch ID:	V067D18	% Moisture	: NA
Calib. Ref.:	RCC056	Instrument ID	: 67

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.50	10.00	95.0	70-140
4-BROMOFLUOROBENZENE	10.7	10.00	107	70-130
TOLUENE-D8	9.95	10.00	99.5	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/16/18
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132	Date Extracted:	04/20/18 16:40
Sample ID:	B1	Date Analyzed:	04/20/18 16:40
Lab Samp ID:	D132-23	Dilution Factor:	1
Lab File ID:	RDC442	Matrix	: WATER
Ext Btch ID:	VO67D18	% Moisture	: NA
Calib. Ref.:	RCC056	Instrument ID	: 67

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	7.4J	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	0.38J	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	0.27J	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.76	10.00	97.6	70-140
4-BROMOFLUOROBENZENE	10.3	10.00	103	70-130
TOLUENE-D8	9.88	10.00	98.8	70-140

QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected	: NA
Project	: POLA-1500 I STREET	Date Received	: 04/20/18
Batch No.	: 18D132	Date Extracted	: 04/20/18 09:26
Sample ID	: MBLK1W	Date Analyzed	: 04/20/18 09:26
Lab Samp ID	: V067D18B	Dilution Factor	: 1
Lab File ID	: RDC425	Matrix	: WATER
Ext Btch ID	: V067D18	% Moisture	: NA
Calib. Ref.	: RCC056	Instrument ID	: 67

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.14	10.00	91.4	70-140
4-BROMOFLUOROBENZENE	10.8	10.00	108	70-130
TOLUENE-D8	10.2	10.00	102	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V067D18B	V067D18L	V067D18C		
LAB FILE ID:	RDC425	RDC423	RDC424		
DATE EXTRACTED:	04/20/1809:26	04/20/1808:35	04/20/1809:01	DATE COLLECTED:	NA
DATE ANALYZED:	04/20/1809:26	04/20/1808:35	04/20/1809:01	DATE RECEIVED:	04/20/18
PREP. BATCH:	V067D18	V067D18	V067D18		
CALIB. REF:	RCC056	RCC056	RCC056		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	9.29	93	10.0	9.03	90	3	60-130	20
Benzene	ND	10.0	9.44	94	10.0	9.18	92	3	70-130	20
Chlorobenzene	ND	10.0	11.4	114	10.0	11.1	111	3	70-120	20
Toluene	ND	10.0	9.75	98	10.0	9.46	95	3	70-130	20
Trichloroethene	ND	10.0	11.2	112	10.0	10.9	109	2	70-130	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	8.90	89	10.0	8.55	86	70-140
4-Bromofluorobenzene	10.0	8.81	88	10.0	8.94	89	70-130
Toluene-d8	10.0	9.70	97	10.0	9.73	97	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

A total of four (4) soil samples were received on 04/16/18 to be analyzed for Volatile Organics by GC/MS in accordance with Method 5035A/8260B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VSF4D09B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VSF4D09L/VSF4D09C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Samples D132-03, -04 and -05 were reported with moisture correction from SDG 18D138 per client request, since no extra jars have provided to determine moisture correction.
Sample D132-21 reported without moisture correction, since no extra jars have provided to determine moisture correction.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : F4

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	VSF4D09B	1	NA	04/17/1812:09	04/17/1812:09	RDN137	RDN081	VSF4D09	Method Blank
LCS1S	VSF4D09L	1	NA	04/17/1810:44	04/17/1810:44	RDN134	RDN081	VSF4D09	Lab Control Sample (LCS)
LCD1S	VSF4D09C	1	NA	04/17/1811:13	04/17/1811:13	RDN135	RDN081	VSF4D09	LCS Duplicate
B1-5.0	D132-03	0.83	13.7	04/17/1812:38	04/17/1812:38	RDN138	RDN081	VSF4D09	Field Sample
B1-10.0	D132-04	0.83	20.0	04/17/1813:06	04/17/1813:06	RDN139	RDN081	VSF4D09	Field Sample
B1-15.0	D132-05	0.76	13.8	04/17/1813:34	04/17/1813:34	RDN140	RDN081	VSF4D09	Field Sample
SG-2-5	D132-21	0.96	NA	04/17/1814:02	04/17/1814:02	RDN141	RDN081	VSF4D09	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/16/18
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132	Date Extracted:	04/17/18 12:38
Sample ID:	B1-5.0	Date Analyzed:	04/17/18 12:38
Lab Samp ID:	D132-03	Dilution Factor:	0.83
Lab File ID:	RDN138	Matrix :	SOIL
Ext Btch ID:	VSF4D09	% Moisture :	13.7
Calib. Ref.:	RDN081	Instrument ID :	TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.8	0.96
1,1,1-TRICHLOROETHANE	ND	4.8	0.96
1,1,2,2-TETRACHLOROETHANE	ND	4.8	0.96
1,1,2-TRICHLOROETHANE	ND	4.8	0.96
1,1-DICHLOROETHANE	ND	4.8	0.96
1,1-DICHLOROETHENE	ND	4.8	0.96
1,1-DICHLOROPROPENE	ND	4.8	0.96
1,2,3-TRICHLOROBENZENE	ND	4.8	1.9
1,2,3-TRICHLOROPROPANE	ND	4.8	1.9
1,2,4-TRICHLOROBENZENE	ND	4.8	1.9
1,2,4-TRIMETHYLBENZENE	ND	4.8	0.96
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.8	1.9
1,2-DIBROMOETHANE	ND	4.8	0.96
1,2-DICHLOROBENZENE	ND	4.8	0.96
1,2-DICHLOROETHANE	ND	4.8	0.96
1,2-DICHLOROPROPANE	ND	4.8	0.96
1,3,5-TRIMETHYLBENZENE	ND	4.8	0.96
1,3-DICHLOROBENZENE	ND	4.8	0.96
1,3-DICHLOROPROPANE	ND	4.8	0.96
1,4-DICHLOROBENZENE	ND	4.8	0.96
2,2-DICHLOROPROPANE	ND	4.8	1.9
2-BUTANONE	ND	9.6	4.8
2-CHLOROTOLUENE	ND	4.8	0.96
2-HEXANONE	ND	9.6	4.8
4-CHLOROTOLUENE	ND	4.8	0.96
ACETONE	14	9.6	4.8
BENZENE	ND	4.8	0.96
BROMOBENZENE	ND	4.8	0.96
BROMOCHLOROMETHANE	ND	4.8	0.96
BROMODICHLOROMETHANE	ND	4.8	0.96
BROMOFORM	6.4	4.8	1.9
BROMOMETHANE	ND	4.8	1.9
CARBON DISULFIDE	ND	4.8	0.96
CARBON TETRACHLORIDE	ND	4.8	0.96
CHLOROBENZENE	ND	4.8	0.96
CHLOROETHANE	ND	4.8	1.9
CHLOROFORM	ND	4.8	0.96
CHLOROMETHANE	ND	4.8	1.9
CIS-1,2-DICHLOROETHENE	ND	4.8	0.96
CIS-1,3-DICHLOROPROPENE	ND	4.8	0.96
DIBROMOCHLOROMETHANE	ND	4.8	0.96
DICHLORODIFLUOROMETHANE	ND	4.8	1.9
ETHYLBENZENE	ND	4.8	0.96
ISOPROPYL BENZENE	ND	4.8	0.96
M,P-XYLENES	ND	9.6	1.9
MIBK	ND	9.6	4.8
METHYLENE CHLORIDE	ND	4.8	1.9
MTBE	ND	4.8	0.96
NAPHTHALENE	ND	4.8	1.9
N-BUTYLBENZENE	ND	4.8	0.96
N-PROPYLBENZENE	ND	4.8	0.96
O-XYLENE	ND	4.8	0.96
P-ISOPROPYLTOLUENE	ND	4.8	0.96
SEC-BUTYLBENZENE	ND	4.8	0.96
STYRENE	ND	4.8	0.96
TERT-BUTYLBENZENE	ND	4.8	0.96
TETRACHLOROETHENE	ND	4.8	0.96
TOLUENE	ND	4.8	0.96
TRANS-1,2-DICHLOROETHENE	ND	4.8	0.96
TRANS-1,3-DICHLOROPROPENE	ND	4.8	0.96
TRICHLOROETHENE	ND	4.8	0.96
TRICHLOROFLUOROMETHANE	ND	4.8	1.9
VINYL CHLORIDE	ND	4.8	1.9
VINYL ACETATE	ND	4.8	1.9
FREON113	ND	4.8	1.9
DIBROMOMETHANE	ND	4.8	0.96

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	46.7	48.09	97.2	60-160
4-BROMOFLUOROBENZENE	49.4	48.09	103	70-150
TOLUENE-D8	50.5	48.09	105	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/16/18
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132	Date Extracted:	04/17/18 13:06
Sample ID:	B1-10.0	Date Analyzed:	04/17/18 13:06
Lab Samp ID:	D132-04	Dilution Factor:	0.83
Lab File ID:	RDN139	Matrix	: SOIL
Ext Btch ID:	VSF4D09	% Moisture	: 20.0
Calib. Ref.:	RDN081	Instrument ID	: TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.2	1.0
1,1,1-TRICHLOROETHANE	ND	5.2	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.2	1.0
1,1,2-TRICHLOROETHANE	ND	5.2	1.0
1,1-DICHLOROETHANE	ND	5.2	1.0
1,1-DICHLOROETHENE	ND	5.2	1.0
1,1-DICHLOROPROPENE	ND	5.2	1.0
1,2,3-TRICHLOROBENZENE	ND	5.2	2.1
1,2,3-TRICHLOROPROPANE	ND	5.2	2.1
1,2,4-TRICHLOROBENZENE	ND	5.2	2.1
1,2,4-TRIMETHYLBENZENE	ND	5.2	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.2	2.1
1,2-DIBROMOETHANE	ND	5.2	1.0
1,2-DICHLOROBENZENE	ND	5.2	1.0
1,2-DICHLOROETHANE	ND	5.2	1.0
1,2-DICHLOROPROPANE	ND	5.2	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.2	1.0
1,3-DICHLOROBENZENE	ND	5.2	1.0
1,3-DICHLOROPROPANE	ND	5.2	1.0
1,4-DICHLOROBENZENE	ND	5.2	1.0
2,2-DICHLOROPROPANE	ND	5.2	2.1
2-BUTANONE	ND	10	5.2
2-CHLOROTOLUENE	ND	5.2	1.0
2-HEXANONE	ND	10	5.2
4-CHLOROTOLUENE	ND	5.2	1.0
ACETONE	8.8J	10	5.2
BENZENE	ND	5.2	1.0
BROMOBENZENE	ND	5.2	1.0
BROMOCHLOROMETHANE	ND	5.2	1.0
BROMODICHLOROMETHANE	ND	5.2	1.0
BROMOFORM	ND	5.2	2.1
BROMOMETHANE	ND	5.2	2.1
CARBON DISULFIDE	ND	5.2	1.0
CARBON TETRACHLORIDE	ND	5.2	1.0
CHLOROBENZENE	ND	5.2	1.0
CHLOROETHANE	ND	5.2	2.1
CHLOROFORM	ND	5.2	1.0
CHLOROMETHANE	ND	5.2	2.1
CIS-1,2-DICHLOROETHENE	ND	5.2	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.2	1.0
DIBROMOCHLOROMETHANE	ND	5.2	1.0
DICHLORODIFLUOROMETHANE	ND	5.2	2.1
ETHYLBENZENE	ND	5.2	1.0
ISOPROPYL BENZENE	ND	5.2	1.0
M,P-XYLENES	ND	10	2.1
MIBK	ND	10	5.2
METHYLENE CHLORIDE	ND	5.2	2.1
MTBE	ND	5.2	1.0
NAPHTHALENE	ND	5.2	2.1
N-BUTYLBENZENE	ND	5.2	1.0
N-PROPYLBENZENE	ND	5.2	1.0
O-XYLENE	ND	5.2	1.0
P-ISOPROPYLTOLUENE	ND	5.2	1.0
SEC-BUTYLBENZENE	ND	5.2	1.0
STYRENE	ND	5.2	1.0
TERT-BUTYLBENZENE	ND	5.2	1.0
TETRACHLOROETHENE	ND	5.2	1.0
TOLUENE	ND	5.2	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.2	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.2	1.0
TRICHLOROETHENE	ND	5.2	1.0
TRICHLOROFLUOROMETHANE	ND	5.2	2.1
VINYL CHLORIDE	ND	5.2	2.1
VINYL ACETATE	ND	5.2	2.1
FREON113	ND	5.2	2.1
DIBROMOMETHANE	ND	5.2	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	50.9	51.87	98.1	60-160
4-BROMOFLUOROBENZENE	53.2	51.87	103	70-150
TOLUENE-D8	54.4	51.87	105	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/16/18
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132	Date Extracted:	04/17/18 13:34
Sample ID:	B1-15.0	Date Analyzed:	04/17/18 13:34
Lab Samp ID:	D132-05	Dilution Factor:	0.76
Lab File ID:	RDN140	Matrix	: SOIL
Ext Btch ID:	VSF4D09	% Moisture	: 13.8
Calib. Ref.:	RDN081	Instrument ID	: TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.4	0.88
1,1,1-TRICHLOROETHANE	ND	4.4	0.88
1,1,2,2-TETRACHLOROETHANE	ND	4.4	0.88
1,1,2-TRICHLOROETHANE	ND	4.4	0.88
1,1-DICHLOROETHANE	ND	4.4	0.88
1,1-DICHLOROETHENE	ND	4.4	0.88
1,1-DICHLOROPROPENE	ND	4.4	0.88
1,2,3-TRICHLOROBENZENE	ND	4.4	1.8
1,2,3-TRICHLOROPROPANE	ND	4.4	1.8
1,2,4-TRICHLOROBENZENE	ND	4.4	1.8
1,2,4-TRIMETHYLBENZENE	ND	4.4	0.88
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.4	1.8
1,2-DIBROMOETHANE	ND	4.4	0.88
1,2-DICHLOROBENZENE	ND	4.4	0.88
1,2-DICHLOROETHANE	ND	4.4	0.88
1,2-DICHLOROPROPANE	ND	4.4	0.88
1,3,5-TRIMETHYLBENZENE	ND	4.4	0.88
1,3-DICHLOROBENZENE	ND	4.4	0.88
1,3-DICHLOROPROPANE	ND	4.4	0.88
1,4-DICHLOROBENZENE	ND	4.4	0.88
2,2-DICHLOROPROPANE	ND	4.4	1.8
2-BUTANONE	ND	8.8	4.4
2-CHLOROTOLUENE	ND	4.4	0.88
2-HEXANONE	ND	8.8	4.4
4-CHLOROTOLUENE	ND	4.4	0.88
ACETONE	6.5J	8.8	4.4
BENZENE	ND	4.4	0.88
BROMOBENZENE	ND	4.4	0.88
BROMOCHLOROMETHANE	ND	4.4	0.88
BROMODICHLOROMETHANE	ND	4.4	0.88
BROMOFORM	ND	4.4	1.8
BROMOMETHANE	ND	4.4	1.8
CARBON DISULFIDE	ND	4.4	0.88
CARBON TETRACHLORIDE	ND	4.4	0.88
CHLOROBENZENE	ND	4.4	0.88
CHLOROETHANE	ND	4.4	1.8
CHLOROFORM	ND	4.4	0.88
CHLOROMETHANE	ND	4.4	1.8
CIS-1,2-DICHLOROETHENE	ND	4.4	0.88
CIS-1,3-DICHLOROPROPENE	ND	4.4	0.88
DIBROMOCHLOROMETHANE	ND	4.4	0.88
DICHLORODIFLUOROMETHANE	ND	4.4	1.8
ETHYLBENZENE	ND	4.4	0.88
ISOPROPYL BENZENE	ND	4.4	0.88
M,P-XYLENES	ND	8.8	1.8
MIBK	ND	8.8	4.4
METHYLENE CHLORIDE	ND	4.4	1.8
MTBE	ND	4.4	0.88
NAPHTHALENE	ND	4.4	1.8
N-BUTYLBENZENE	ND	4.4	0.88
N-PROPYLBENZENE	ND	4.4	0.88
O-XYLENE	ND	4.4	0.88
P-ISOPROPYLTOLUENE	ND	4.4	0.88
SEC-BUTYLBENZENE	ND	4.4	0.88
STYRENE	ND	4.4	0.88
TERT-BUTYLBENZENE	ND	4.4	0.88
TETRACHLOROETHENE	ND	4.4	0.88
TOLUENE	ND	4.4	0.88
TRANS-1,2-DICHLOROETHENE	ND	4.4	0.88
TRANS-1,3-DICHLOROPROPENE	ND	4.4	0.88
TRICHLOROETHENE	ND	4.4	0.88
TRICHLOROFLUOROMETHANE	ND	4.4	1.8
VINYL CHLORIDE	ND	4.4	1.8
VINYL ACETATE	ND	4.4	1.8
FREON113	ND	4.4	1.8
DIBROMOMETHANE	ND	4.4	0.88

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	43.1	44.08	97.7	60-160
4-BROMOFLUOROBENZENE	45.3	44.08	103	70-150
TOLUENE-D8	46.5	44.08	106	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/16/18
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132	Date Extracted:	04/17/18 14:02
Sample ID:	SG-2-5	Date Analyzed:	04/17/18 14:02
Lab Samp ID:	D132-21	Dilution Factor:	0.96
Lab File ID:	RDN141	Matrix	: SOIL
Ext Btch ID:	VSF4D09	% Moisture	: NA
Calib. Ref.:	RDN081	Instrument ID	: TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.8	0.96
1,1,1-TRICHLOROETHANE	ND	4.8	0.96
1,1,2,2-TETRACHLOROETHANE	ND	4.8	0.96
1,1,2-TRICHLOROETHANE	ND	4.8	0.96
1,1-DICHLOROETHANE	ND	4.8	0.96
1,1-DICHLOROETHENE	ND	4.8	0.96
1,1-DICHLOROPROPENE	ND	4.8	0.96
1,2,3-TRICHLOROBENZENE	ND	4.8	1.9
1,2,3-TRICHLOROPROPANE	ND	4.8	1.9
1,2,4-TRICHLOROBENZENE	ND	4.8	1.9
1,2,4-TRIMETHYLBENZENE	1.1J	4.8	0.96
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.8	1.9
1,2-DIBROMOETHANE	ND	4.8	0.96
1,2-DICHLOROBENZENE	ND	4.8	0.96
1,2-DICHLOROETHANE	ND	4.8	0.96
1,2-DICHLOROPROPANE	ND	4.8	0.96
1,3,5-TRIMETHYLBENZENE	ND	4.8	0.96
1,3-DICHLOROBENZENE	ND	4.8	0.96
1,3-DICHLOROPROPANE	ND	4.8	0.96
1,4-DICHLOROBENZENE	ND	4.8	0.96
2,2-DICHLOROPROPANE	ND	4.8	1.9
2-BUTANONE	ND	9.6	4.8
2-CHLOROTOLUENE	ND	4.8	0.96
2-HEXANONE	ND	9.6	4.8
4-CHLOROTOLUENE	ND	4.8	0.96
ACETONE	31	9.6	4.8
BENZENE	ND	4.8	0.96
BROMOBENZENE	ND	4.8	0.96
BROMOCHLOROMETHANE	ND	4.8	0.96
BROMODICHLOROMETHANE	ND	4.8	0.96
BROMOFORM	ND	4.8	1.9
BROMOMETHANE	ND	4.8	1.9
CARBON DISULFIDE	ND	4.8	0.96
CARBON TETRACHLORIDE	ND	4.8	0.96
CHLOROBENZENE	ND	4.8	0.96
CHLOROETHANE	ND	4.8	1.9
CHLOROFORM	ND	4.8	0.96
CHLOROMETHANE	ND	4.8	1.9
CIS-1,2-DICHLOROETHENE	ND	4.8	0.96
CIS-1,3-DICHLOROPROPENE	ND	4.8	0.96
DIBROMOCHLOROMETHANE	ND	4.8	0.96
DICHLORODIFLUOROMETHANE	ND	4.8	1.9
ETHYLBENZENE	ND	4.8	0.96
ISOPROPYL BENZENE	ND	4.8	0.96
M,P-XYLENES	ND	9.6	1.9
MIBK	ND	9.6	4.8
METHYLENE CHLORIDE	ND	4.8	1.9
MTBE	ND	4.8	0.96
NAPHTHALENE	ND	4.8	1.9
N-BUTYLBENZENE	ND	4.8	0.96
N-PROPYLBENZENE	ND	4.8	0.96
O-XYLENE	ND	4.8	0.96
P-ISOPROPYLTOLUENE	ND	4.8	0.96
SEC-BUTYLBENZENE	ND	4.8	0.96
STYRENE	ND	4.8	0.96
TERT-BUTYLBENZENE	ND	4.8	0.96
TETRACHLOROETHENE	ND	4.8	0.96
TOLUENE	ND	4.8	0.96
TRANS-1,2-DICHLOROETHENE	ND	4.8	0.96
TRANS-1,3-DICHLOROPROPENE	ND	4.8	0.96
TRICHLOROETHENE	ND	4.8	0.96
TRICHLOROFLUOROMETHANE	ND	4.8	1.9
VINYL CHLORIDE	ND	4.8	1.9
VINYL ACETATE	ND	4.8	1.9
FREON113	ND	4.8	1.9
DIBROMOMETHANE	ND	4.8	0.96

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	49.6	48.00	103	60-160
4-BROMOFLUOROBENZENE	58.3	48.00	121	70-150
TOLUENE-D8	52.0	48.00	108	70-140

QC SUMMARIES

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected	: NA
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D132	Date Extracted	: 04/17/18 12:09
Sample ID	: MBLK1S	Date Analyzed	: 04/17/18 12:09
Lab Samp ID	: VSF4D09B	Dilution Factor	: 1
Lab File ID	: RDN137	Matrix	: SOIL
Ext Btch ID	: VSF4D09	% Moisture	: NA
Calib. Ref.	: RDN081	Instrument ID	: TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	1.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-CHLOROTOLUENE	ND	5.0	1.0
2-HEXANONE	ND	10	5.0
4-CHLOROTOLUENE	ND	5.0	1.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENES	ND	10	2.0
MIBK	ND	10	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	1.0
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	49.1	50.00	98.2	70-140
4-BROMOFLUOROBENZENE	50.5	50.00	101	70-130
TOLUENE-D8	51.8	50.00	104	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: SW 5035A/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VSF4D09B	VSF4D09L	VSF4D09C		
LAB FILE ID:	RDN137	RDN134	RDN135		
DATE EXTRACTED:	04/17/1812:09	04/17/1810:44	04/17/1811:13	DATE COLLECTED:	NA
DATE ANALYZED:	04/17/1812:09	04/17/1810:44	04/17/1811:13	DATE RECEIVED:	04/17/18
PREP. BATCH:	VSF4D09	VSF4D09	VSF4D09		
CALIB. REF:	RDN081	RDN081	RDN081		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	50.0	44.1	88	50.0	48.8	98	10	60-130	30
Benzene	ND	50.0	46.9	94	50.0	51.2	102	9	70-130	30
Chlorobenzene	ND	50.0	45.8	92	50.0	50.1	100	9	70-130	30
Toluene	ND	50.0	45.2	90	50.0	49.9	100	10	70-130	50
Trichloroethene	ND	50.0	46.5	93	50.0	51.4	103	10	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	48.4	97	50.0	48.9	98	70-140
4-Bromofluorobenzene	50.0	50.2	100	50.0	50.3	101	70-130
Toluene-d8	50.0	51.1	102	50.0	51.6	103	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

One (1) water sample was received on 04/16/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5030B/SW8015B and project specific requirements.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VG39D06B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VG39D06L/VG39D06C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : GCT039

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	VG39D06B	1	NA	04/17/1814:54	04/17/1814:54	ED17006A	ED17003A	VG39D06	Method Blank
LCS1W	VG39D06L	1	NA	04/17/1813:36	04/17/1813:36	ED17004A	ED17003A	VG39D06	Lab Control Sample (LCS)
LCD1W	VG39D06C	1	NA	04/17/1814:15	04/17/1814:15	ED17005A	ED17003A	VG39D06	LCS Duplicate
B1	D132-23	1	NA	04/17/1817:29	04/17/1817:29	ED17010A	ED17003A	VG39D06	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/17/18 17:29
Sample ID: B1	Date Analyzed: 04/17/18 17:29
Lab Samp ID: D132-23	Dilution Factor: 1
Lab File ID: ED17010A	Matrix : WATER
Ext Btch ID: VG39D06	% Moisture : NA
Calib. Ref.: ED17003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.10	0.010

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	0.0328	0.04000	82.0	60-140

Parameter	H-C Range
Gasoline	C5-C12

QC SUMMARIES

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D132	Date Extracted: 04/17/18 14:54
Sample ID: MBLK1W	Date Analyzed: 04/17/18 14:54
Lab Samp ID: VG39D06B	Dilution Factor: 1
Lab File ID: ED17006A	Matrix : WATER
Ext Btch ID: VG39D06	% Moisture : NA
Calib. Ref.: ED17003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.10	0.010

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	0.0335	0.04000	83.8	70-130

Parameter	H-C Range
Gasoline	C5-C12

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: METHOD SW5030B/SW8015B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VG39D06B	VG39D06L	VG39D06C		
LAB FILE ID:	ED17006A	ED17004A	ED17005A		
DATE EXTRACTED:	04/17/1814:54	04/17/1813:36	04/17/1814:15	DATE COLLECTED:	NA
DATE ANALYZED:	04/17/1814:54	04/17/1813:36	04/17/1814:15	DATE RECEIVED:	04/17/18
PREP. BATCH:	VG39D06	VG39D06	VG39D06		
CALIB. REF:	ED17003A	ED17003A	ED17003A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	0.500	0.452	90	0.500	0.444	89	2	60-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	0.0400	0.0402	100	0.0400	0.0398	99	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of thirteen (13) soil samples were received on 04/16/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5035A/SW8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. GMD006SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. GMD006SL/GMD006SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

Samples D132-01I and 15I displayed a non-gasoline pattern.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : GCT039

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	GMD006SB	1	NA	04/17/1823:16	04/17/1823:16	ED17019A	ED17014A	GMD006S	Method Blank
LCS1S	GMD006SL	1	NA	04/17/1821:59	04/17/1821:59	ED17017A	ED17014A	GMD006S	Lab Control Sample (LCS)
LCD1S	GMD006SC	1	NA	04/17/1822:38	04/17/1822:38	ED17018A	ED17014A	GMD006S	LCS Duplicate
B1-0.5	D132-01I	1.05	4.9	04/17/1823:54	04/17/1823:54	ED17020A	ED17014A	GMD006S	Diluted Sample
B1-2.0	D132-02I	0.82	11.7	04/18/1801:11	04/18/1801:11	ED17022A	ED17014A	GMD006S	Diluted Sample
B1-5.0	D132-03I	0.78	13.7	04/18/1801:50	04/18/1801:50	ED17023A	ED17014A	GMD006S	Diluted Sample
B1-10.0	D132-04I	0.83	20.0	04/18/1802:28	04/18/1802:28	ED17024A	ED17014A	GMD006S	Diluted Sample
B1-15.0	D132-05I	0.78	13.8	04/18/1803:06	04/18/1803:06	ED17025A	ED17014A	GMD006S	Diluted Sample
B2-0.5	D132-06I	1.02	2.0	04/18/1804:23	04/18/1804:23	ED17027A	ED17026A	GMD006S	Diluted Sample
B2-2	D132-07I	1.01	5.3	04/18/1805:01	04/18/1805:01	ED17028A	ED17026A	GMD006S	Diluted Sample
B3-0.5	D132-11I	1.06	4.4	04/18/1805:39	04/18/1805:39	ED17029A	ED17026A	GMD006S	Diluted Sample
B3-2	D132-12I	0.95	9.0	04/18/1806:18	04/18/1806:18	ED17030A	ED17026A	GMD006S	Diluted Sample
B4-0.5	D132-15I	0.86	3.7	04/18/1806:56	04/18/1806:56	ED17031A	ED17026A	GMD006S	Diluted Sample
B4-2	D132-16I	0.84	11.4	04/18/1807:34	04/18/1807:34	ED17032A	ED17026A	GMD006S	Diluted Sample
B3-2D	D132-19I	0.80	8.8	04/18/1808:12	04/18/1808:12	ED17033A	ED17026A	GMD006S	Diluted Sample
B4-0.5D	D132-20I	0.86	3.9	04/18/1808:51	04/18/1808:51	ED17034A	ED17026A	GMD006S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/17/18 23:54
Sample ID: B1-0.5	Date Analyzed: 04/17/18 23:54
Lab Samp ID: D132-01I	Dilution Factor: 1.05
Lab File ID: ED17020A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 4.9
Calib. Ref.: ED17014A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	23	1.1	0.55

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.44	2.208	111	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 01:11
Sample ID: B1-2.0	Date Analyzed: 04/18/18 01:11
Lab Samp ID: D132-02I	Dilution Factor: 0.82
Lab File ID: ED17022A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 11.7
Calib. Ref.: ED17014A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.93	0.46

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.45	1.857	78.1	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 01:50
Sample ID: B1-5.0	Date Analyzed: 04/18/18 01:50
Lab Samp ID: D132-03I	Dilution Factor: 0.78
Lab File ID: ED17023A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 13.7
Calib. Ref.: ED17014A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.90	0.45

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.43	1.808	78.9	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 02:28
Sample ID: B1-10.0	Date Analyzed: 04/18/18 02:28
Lab Samp ID: D132-04I	Dilution Factor: 0.83
Lab File ID: ED17024A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 20.0
Calib. Ref.: ED17014A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.52

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.67	2.075	80.6	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 03:06
Sample ID: B1-15.0	Date Analyzed: 04/18/18 03:06
Lab Samp ID: D132-05I	Dilution Factor: 0.78
Lab File ID: ED17025A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 13.8
Calib. Ref.: ED17014A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.90	0.45

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.43	1.810	78.9	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 04:23
Sample ID: B2-0.5	Date Analyzed: 04/18/18 04:23
Lab Samp ID: D132-06I	Dilution Factor: 1.02
Lab File ID: ED17027A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 2.0
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	0.95J	1.0	0.52

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.73	2.082	82.9	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 05:01
Sample ID: B2-2	Date Analyzed: 04/18/18 05:01
Lab Samp ID: D132-07I	Dilution Factor: 1.01
Lab File ID: ED17028A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 5.3
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.53

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.68	2.133	78.9	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 05:39
Sample ID: B3-0.5	Date Analyzed: 04/18/18 05:39
Lab Samp ID: D132-11I	Dilution Factor: 1.06
Lab File ID: ED17029A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 4.4
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.55

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.76	2.218	79.5	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 06:18
Sample ID: B3-2	Date Analyzed: 04/18/18 06:18
Lab Samp ID: D132-12I	Dilution Factor: 0.95
Lab File ID: ED17030A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 9.0
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.52

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.68	2.088	80.7	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 06:56
Sample ID: B4-0.5	Date Analyzed: 04/18/18 06:56
Lab Samp ID: D132-15I	Dilution Factor: 0.86
Lab File ID: ED17031A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 3.7
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	1.4	0.89	0.45

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.47	1.786	82.4	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 07:34
Sample ID: B4-2	Date Analyzed: 04/18/18 07:34
Lab Samp ID: D132-16I	Dilution Factor: 0.84
Lab File ID: ED17032A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 11.4
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.95	0.47

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.50	1.896	79.2	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 08:12
Sample ID: B3-2D	Date Analyzed: 04/18/18 08:12
Lab Samp ID: D132-19I	Dilution Factor: 0.80
Lab File ID: ED17033A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 8.8
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.88	0.44

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.42	1.754	80.8	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 08:51
Sample ID: B4-0.5D	Date Analyzed: 04/18/18 08:51
Lab Samp ID: D132-20I	Dilution Factor: 0.86
Lab File ID: ED17034A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 3.9
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.89	0.45

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.39	1.790	77.5	10-160

Parameter	H-C Range
Gasoline	C5-C12

QC SUMMARIES

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D132	Date Extracted: 04/17/18 23:16
Sample ID: MBLK1S	Date Analyzed: 04/17/18 23:16
Lab Samp ID: GMD006SB	Dilution Factor: 1
Lab File ID: ED17019A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : NA
Calib. Ref.: ED17014A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.78	2.000	89.0	70-140

Parameter	H-C Range
Gasoline	C5-C12

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: METHOD SW5035A/SW8015B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	GMD006SB	GMD006SL	GMD006SC		
LAB FILE ID:	ED17019A	ED17017A	ED17018A		
DATE EXTRACTED:	04/17/1823:16	04/17/1821:59	04/17/1822:38	DATE COLLECTED:	NA
DATE ANALYZED:	04/17/1823:16	04/17/1821:59	04/17/1822:38	DATE RECEIVED:	04/17/18
PREP. BATCH:	GMD006S	GMD006S	GMD006S		
CALIB. REF:	ED17014A	ED17014A	ED17014A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	25.0	23.9	96	25.0	23.5	94	2	60-130	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.00	2.15	107	2.00	2.10	105	70-140

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) water sample was received on 04/16/18 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSD017WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSD017WL/DSD017WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample D132-23 displayed mixed fuel pattern. Discrete peak was excluded from the result

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : D5

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSD017WB	1	NA	04/19/1814:51	04/18/1813:45	LD19008A	LD19004A	DSD017W	Method Blank
LCS1W	DSD017WL	1	NA	04/19/1815:08	04/18/1813:45	LD19009A	LD19004A	DSD017W	Lab Control Sample (LCS)
LCD1W	DSD017WC	1	NA	04/19/1815:25	04/18/1813:45	LD19010A	LD19004A	DSD017W	LCS Duplicate
B1	D132-23	1	NA	04/19/1821:34	04/18/1813:45	LD19032A	LD19021A	DSD017W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 13:45
Sample ID: B1	Date Analyzed: 04/19/18 21:34
Lab Samp ID: D132-23	Dilution Factor: 1
Lab File ID: LD19032A	Matrix : WATER
Ext Btch ID: DSD017W	% Moisture : NA
Calib. Ref.: LD19021A	Instrument ID : D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	1.0	0.50	0.10
MOTOR OIL	0.74	0.50	0.10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.861	1.000	86.1	50-130
HEXACOSANE	0.188	0.2500	75.1	40-150

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

QC SUMMARIES

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D132	Date Extracted: 04/18/18 13:45
Sample ID: MBLK1W	Date Analyzed: 04/19/18 14:51
Lab Samp ID: DSD017WB	Dilution Factor: 1
Lab File ID: LD19008A	Matrix : WATER
Ext Btch ID: DSD017W	% Moisture : NA
Calib. Ref.: LD19004A	Instrument ID : D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	0.50	0.10
MOTOR OIL	ND	0.50	0.10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.882	1.000	88.2	50-130
HEXACOSANE	0.215	0.2500	86.2	40-150

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: METHOD 3520C/8015B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSD017WB	DSD017WL	DSD017WC		
LAB FILE ID:	LD19008A	LD19009A	LD19010A		
DATE EXTRACTED:	04/18/1813:45	04/18/1813:45	04/18/1813:45	DATE COLLECTED:	NA
DATE ANALYZED:	04/19/1814:51	04/19/1815:08	04/19/1815:25	DATE RECEIVED:	04/18/18
PREP. BATCH:	DSD017W	DSD017W	DSD017W		
CALIB. REF:	LD19004A	LD19004A	LD19004A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	5.00	4.50	90	5.00	4.45	89	1	60-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1.00	0.884	88	1.00	0.914	91	50-130
Hexacosane	0.250	0.218	87	0.250	0.215	86	60-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of eight (8) soil samples were received on 04/16/18 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3550B/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSD019SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSD019SL/DSD019SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Diesel was within MS QC limits in D132-16M/S. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
All samples displayed heavier fuel pattern.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : D5

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	DSD019SB	1	NA	04/23/1822:40	04/23/1812:30	LD23032A	LD23030A	DSD019S	Method Blank
LCS1S	DSD019SL	1	NA	04/23/1822:56	04/23/1812:30	LD23033A	LD23030A	DSD019S	Lab Control Sample (LCS)
LCD1S	DSD019SC	1	NA	04/23/1823:13	04/23/1812:30	LD23034A	LD23030A	DSD019S	LCS Duplicate
B2-0.5	D132-06I	5	2.0	04/23/1823:30	04/23/1812:30	LD23035A	LD23030A	DSD019S	Diluted Sample
B2-2	D132-07I	5	5.3	04/23/1823:46	04/23/1812:30	LD23036A	LD23030A	DSD019S	Diluted Sample
B3-0.5	D132-11I	2	4.4	04/24/1800:03	04/23/1812:30	LD23037A	LD23030A	DSD019S	Diluted Sample
B3-2	D123-12I	2	9.0	04/24/1800:19	04/23/1812:30	LD23038A	LD23030A	DSD019S	Diluted Sample
B4-0.5	D132-15I	5	3.7	04/24/1800:36	04/23/1812:30	LD23039A	LD23030A	DSD019S	Diluted Sample
B4-2	D132-16	1	11.4	04/24/1800:53	04/23/1812:30	LD23040A	LD23030A	DSD019S	Field Sample
B4-2MS	D132-16M	1	11.4	04/24/1801:09	04/23/1812:30	LD23041A	LD23030A	DSD019S	Matrix Spike Sample (MS)
B4-2MSD	D132-16S	1	11.4	04/24/1801:26	04/23/1812:30	LD23042A	LD23030A	DSD019S	MS Duplicate (MSD)
B3-2D	D132-19I	2	8.8	04/24/1801:43	04/23/1812:30	LD23043A	LD23030A	DSD019S	Diluted Sample
B4-0.5D	D132-20I	5	3.9	04/24/1801:59	04/23/1812:30	LD23044A	LD23030A	DSD019S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B2-0.5	Date Analyzed: 04/23/18 23:30
Lab Samp ID: D132-06I	Dilution Factor: 5
Lab File ID: LD23035A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 2.0
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	79	51	26
MOTOR OIL	1100	100	26

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	96.0	102.0	94.1	50-130
HEXACOSANE	27.3	25.52	107	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B2-2	Date Analyzed: 04/23/18 23:46
Lab Samp ID: D132-07I	Dilution Factor: 5
Lab File ID: LD23036A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 5.3
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	130	53	26
MOTOR OIL	1200	110	26

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	115	105.6	109	50-130
HEXACOSANE	31.4	26.40	119	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B3-0.5	Date Analyzed: 04/24/18 00:03
Lab Samp ID: D132-11I	Dilution Factor: 2
Lab File ID: LD23037A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 4.4
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	30	21	10
MOTOR OIL	700	42	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	96.3	104.6	92.1	50-130
HEXACOSANE	29.1	26.15	111	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B3-2	Date Analyzed: 04/24/18 00:19
Lab Samp ID: D132-12I	Dilution Factor: 2
Lab File ID: LD23038A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 9.0
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	20J	22	11
MOTOR OIL	450	44	11

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	104	109.9	94.3	50-130
HEXACOSANE	30.8	27.48	112	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B4-0.5	Date Analyzed: 04/24/18 00:36
Lab Samp ID: D132-15I	Dilution Factor: 5
Lab File ID: LD23039A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 3.7
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	210	52	26
MOTOR OIL	2000	100	26

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	100	103.8	96.3	50-130
HEXACOSANE	29.8	25.96	115	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B4-2	Date Analyzed: 04/24/18 00:53
Lab Samp ID: D132-16	Dilution Factor: 1
Lab File ID: LD23040A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 11.4
Calib. Ref.: LD23030A	Instrument ID : GCT105

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	21	11	5.6
MOTOR OIL	240	23	5.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	107	112.9	95.1	50-130
HEXACOSANE	30.1	28.22	107	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B3-2D	Date Analyzed: 04/24/18 01:43
Lab Samp ID: D132-19I	Dilution Factor: 2
Lab File ID: LD23043A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 8.8
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	34	22	11
MOTOR OIL	570	44	11

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	91.9	109.7	83.8	50-130
HEXACOSANE	29.1	27.41	106	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B4-0.5D	Date Analyzed: 04/24/18 01:59
Lab Samp ID: D132-20I	Dilution Factor: 5
Lab File ID: LD23044A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 3.9
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	150	52	26
MOTOR OIL	1400	100	26

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	91.2	104.1	87.6	50-130
HEXACOSANE	26.8	26.02	103	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

QC SUMMARIES

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/23/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: MBLK1S	Date Analyzed: 04/23/18 22:40
Lab Samp ID: DSD019SB	Dilution Factor: 1
Lab File ID: LD23032A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : NA
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	10	5.0
MOTOR OIL	ND	20	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	101	100.0	101	50-130
HEXACOSANE	28.2	25.00	113	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: METHOD 3550B/8015B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	DSD019SB	DSD019SL	DSD019SC		
LAB FILE ID:	LD23032A	LD23033A	LD23034A		
DATE EXTRACTED:	04/23/1812:30	04/23/1812:30	04/23/1812:30	DATE COLLECTED:	NA
DATE ANALYZED:	04/23/1822:40	04/23/1822:56	04/23/1823:13	DATE RECEIVED:	04/23/18
PREP. BATCH:	DSD019S	DSD019S	DSD019S		
CALIB. REF:	LD23030A	LD23030A	LD23030A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	500	528	106	500	499	100	6	60-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromobenzene	100	110	110	100	98.8	99	50-130
Hexacosane	25.0	31.4	126	25.0	27.5	110	60-130

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: METHOD 3550B/8015B

MATRIX: SOIL % MOISTURE: 11.4

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	B4-2				
LAB SAMP ID:	D132-16	D132-16M	D132-16S		
LAB FILE ID:	LD23040A	LD23041A	LD23042A		
DATE EXTRACTED:	04/23/1812:30	04/23/1812:30	04/23/1812:30	DATE COLLECTED:	04/16/18
DATE ANALYZED:	04/24/1800:53	04/24/1801:09	04/24/1801:26	DATE RECEIVED:	04/16/18
PREP. BATCH:	DSD019S	DSD019S	DSD019S		
CALIB. REF:	LD23030A	LD23030A	LD23030A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	20.6	564	609	104	564	562	96	8	60-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Bromobenzene	113	113	100	113	107	95	50-130
Hexacosane	28.2	31.2	111	28.2	29.1	103	40-160

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW3550B/SW8082
PCBs

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD SW3550B/SW8082
PCBS

A total of three (3) soil samples were received on 04/16/18 to be analyzed for PCBs in accordance with Method SW3550B/SW8082 and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. 60D016SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. 60D016SL/60D016SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Relative percentage difference (RPD) between the two results was evaluated. If RPD is less than 40% and peaks are well defined the higher result is reported. Where RPD is greater than 40% the chromatogram was checked for anomalies and results were selected based on processed knowledge. If there is no evidence of any chromatographic ambiguity, the higher result is reported.

Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample extracts subjected to appropriate cleanup technique to reduce matrix interference are recorded in extraction log. Refer to extraction log for details.

LAB CHRONICLE
PCBs

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : 71

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	60D016SB	1	NA	04/24/1803:36	04/20/1815:05	KD23032A	KD23021A	CPD016S	Method Blank
LCS1S	60D016SL	1	NA	04/23/1819:32	04/20/1815:05	KD23008A	KD23005A	CPD016S	Lab Control Sample (LCS)
LCD1S	60D016SC	1	NA	04/23/1819:52	04/20/1815:05	KD23009A	KD23005A	CPD016S	LCS Duplicate
B4-0.5	D132-15	1	3.7	04/23/1820:53	04/20/1815:05	KD23012A	KD23005A	CPD016S	Field Sample
B4-2	D132-16	1	11.4	04/23/1821:13	04/20/1815:05	KD23013A	KD23005A	CPD016S	Field Sample
B4-0.5D	D132-20	1	3.9	04/23/1821:33	04/20/1815:05	KD23014A	KD23005A	CPD016S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/20/18 15:05
Sample ID: B4-0.5	Date Analyzed: 04/23/18 20:53
Lab Samp ID: D132-15	Dilution Factor: 1
Lab File ID: KD23012A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 3.7
Calib. Ref.: KD23005A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	52	17 | 17
PCB-1221	(ND) | ND	52	17 | 17
PCB-1232	(ND) | ND	52	17 | 17
PCB-1242	(ND) | ND	52	17 | 17
PCB-1248	(ND) | ND	52	17 | 17
PCB-1254	(190) | 190	52	17 | 17
PCB-1260	(160) | 130	52	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	12.77 | (13.09)	13.84	92.3 | (94.6)	50-130
DECACHLOROBIPHENYL	(15.57) | 14.12	13.84	(112) | 102	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/20/18 15:05
Sample ID: B4-2	Date Analyzed: 04/23/18 21:13
Lab Samp ID: D132-16	Dilution Factor: 1
Lab File ID: KD23013A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 11.4
Calib. Ref.: KD23005A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	56	19 | 19
PCB-1221	(ND) | ND	56	19 | 19
PCB-1232	(ND) | ND	56	19 | 19
PCB-1242	(ND) | ND	56	19 | 19
PCB-1248	(ND) | ND	56	19 | 19
PCB-1254	(ND) | ND	56	19 | 19
PCB-1260	(ND) | ND	56	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(12.87) | 12.48	15.05	(85.6) | 83.0	50-130
DECACHLOROBIPHENYL	(21.14) | 14.03	15.05	(141) | 93.2	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/20/18 15:05
Sample ID: B4-0.5D	Date Analyzed: 04/23/18 21:33
Lab Samp ID: D132-20	Dilution Factor: 1
Lab File ID: KD23014A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 3.9
Calib. Ref.: KD23005A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	52	17 | 17
PCB-1221	(ND) | ND	52	17 | 17
PCB-1232	(ND) | ND	52	17 | 17
PCB-1242	(ND) | ND	52	17 | 17
PCB-1248	(ND) | ND	52	17 | 17
PCB-1254	(230) | 220	52	17 | 17
PCB-1260	(170) | 150	52	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(12.92) | 12.56	13.87	(93.1) | 90.6	50-130
DECACHLOROBIPHENYL	(17.26) | 14.32	13.87	(124) | 103	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

QC SUMMARIES

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/20/18
Batch No. : 18D132	Date Extracted: 04/20/18 15:05
Sample ID: MBLK1S	Date Analyzed: 04/24/18 03:36
Lab Samp ID: 60D016SB	Dilution Factor: 1
Lab File ID: KD23032A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : NA
Calib. Ref.: KD23021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	50	17 | 17
PCB-1221	(ND) | ND	50	17 | 17
PCB-1232	(ND) | ND	50	17 | 17
PCB-1242	(ND) | ND	50	17 | 17
PCB-1248	(ND) | ND	50	17 | 17
PCB-1254	(ND) | ND	50	17 | 17
PCB-1260	(ND) | ND	50	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.79 | (14.15)	13.33	103 | (106)	60-130
DECACHLOROBIPHENYL	(17.67) | 14.59	13.33	(133) | 109	70-140

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: SW3550B/SW8082

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	60D016SB	60D016SL	60D016SC		
LAB FILE ID:	KD23032A	KD23008A	KD23009A		
DATE EXTRACTED:	04/20/1815:05	04/20/1815:05	04/20/1815:05	DATE COLLECTED:	NA
DATE ANALYZED:	04/24/1803:36	04/23/1819:32	04/23/1819:52	DATE RECEIVED:	04/20/18
PREP. BATCH:	CPD016S	CPD016S	CPD016S		
CALIB. REF:	KD23021A	KD23005A	KD23005A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND)|ND	167	(154)|148	(92)|89	167	(171)|166	(103)|100	(10)|11	70-140	50
PCB-1260	(ND)|ND	167	(180)|150	(108)|90	167	(185)|166	(111)|100	(3)|10	70-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.33	(11.91)|10.98	(89.4)|82.4	13.33	(13.48)|12.98	(101)|97.4	60-130
Decachlorobiphenyl	13.33	(15.50)|13.26	(116)|99.5	13.33	(15.74)|14.20	(118)|107	70-140

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3050B/6010B
METALS BY TRACE ICP

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of six (6) soil samples were received on 04/16/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD029SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD029SL/IPD029SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed and the following was noted: D132-11M/S - Percent recovery for Lead(14X) was not within MS/MSD QC limits. The enclosed value(#X) is the ratio of parent sample result and spike amount. Presence of matrix interference was suspected. Serial dilution was analyzed and evaluated as appropriate. Result was within expected values. Refer to Matrix QC summary form for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of three (3) soil samples were received on 04/16/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD029SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD029SL/IPD029SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Cadmium was within MS QC limits in D132-11M/S. Refer to Matrix QC summary form for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of two(2) soil samples were received on 04/16/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD029SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD029SL/IPD029SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD029SB	1.000	NA	04/23/1818:44	04/20/1814:51	ID8D018066	ID8D018064	IPD029S	Method Blank
LCS1S	IPD029SL	1.000	NA	04/23/1818:47	04/20/1814:51	ID8D018067	ID8D018064	IPD029S	Lab Control Sample (LCS)
LCD1S	IPD029SC	1.000	NA	04/23/1818:51	04/20/1814:51	ID8D018068	ID8D018064	IPD029S	LCS Duplicate
B3-0.5MS	D132-11M	1.000	4.4	04/23/1819:02	04/20/1814:51	ID8D018071	ID8D018064	IPD029S	Matrix Spike Sample (MS)
B3-0.5MSD	D132-11S	1.000	4.4	04/23/1819:06	04/20/1814:51	ID8D018072	ID8D018064	IPD029S	MS Duplicate (MSD)
B3-0.5	D132-11A	1.000	4.4	04/23/1819:10	04/20/1814:51	ID8D018073	ID8D018064	IPD029S	Analytical Spike Sample
B3-0.5	D132-11	1.000	4.4	04/23/1819:14	04/20/1814:51	ID8D018074	ID8D018064	IPD029S	Field Sample
B3-0.5	D132-11J	5.000	4.4	04/23/1819:17	04/20/1814:51	ID8D018075	ID8D018064	IPD029S	Diluted Sample
B3-2	D132-12	1.000	9.0	04/23/1819:28	04/20/1814:51	ID8D018078	ID8D018076	IPD029S	Field Sample
B4-0.5	D132-15	1.000	3.7	04/23/1819:33	04/20/1814:51	ID8D018079	ID8D018076	IPD029S	Field Sample
B4-2	D132-16	1.000	11.4	04/23/1819:36	04/20/1814:51	ID8D018080	ID8D018076	IPD029S	Field Sample
B3-2D	D132-19	1.000	8.8	04/23/1819:40	04/20/1814:51	ID8D018081	ID8D018076	IPD029S	Field Sample
B4-0.5D	D132-20	1.000	3.9	04/23/1819:44	04/20/1814:51	ID8D018082	ID8D018076	IPD029S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:06
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B3-0.5	Date Analyzed:	04/23/18 19:14
Lab Samp ID:	D132-11	Dilution Factor:	1
Lab File ID:	ID8D018074	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	4.4
Calib. Ref.:	ID8D018064	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	722	0.969	0.194

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.08g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:17
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B3-2	Date Analyzed:	04/23/18 19:28
Lab Samp ID:	D132-12	Dilution Factor:	1
Lab File ID:	ID8D018078	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	9.0
Calib. Ref.:	ID8D018076	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	929	1.03	0.207

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.064g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 13:15
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B4-0.5	Date Analyzed:	04/23/18 19:33
Lab Samp ID:	D132-15	Dilution Factor:	1
Lab File ID:	ID8D018079	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	3.7
Calib. Ref.:	ID8D018076	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	386	1.02	0.203

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.023g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 13:37
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B4-2	Date Analyzed:	04/23/18 19:36
Lab Samp ID:	D132-16	Dilution Factor:	1
Lab File ID:	ID8D018080	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	11.4
Calib. Ref.:	ID8D018076	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	66.7	1.12	0.224

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.009g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:19
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B3-2D	Date Analyzed:	04/23/18 19:40
Lab Samp ID:	D132-19	Dilution Factor:	1
Lab File ID:	ID8D018081	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	8.8
Calib. Ref.:	ID8D018076	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	1250	1.03	0.205

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.07g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 13:17
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B4-0.5D	Date Analyzed:	04/23/18 19:44
Lab Samp ID:	D132-20	Dilution Factor:	1
Lab File ID:	ID8D018082	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	3.9
Calib. Ref.:	ID8D018076	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	417	0.960	0.192

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.083g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	MBLK1S	Date Analyzed:	04/23/18 18:44
Lab Samp ID:	IPD029SB	Dilution Factor:	1
Lab File ID:	ID8D018066	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	NA
Calib. Ref.:	ID8D018064	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.200

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPD029SB	IPD029SL	IPD029SC
LAB FILE ID	: ID8D018066	ID8D018067	ID8D018068
DATE PREPARED	: 04/20/18 14:51	04/20/18 14:51	04/20/18 14:51
DATE ANALYZED	: 04/23/18 18:44	04/23/18 18:47	04/23/18 18:51
PREP BATCH	: IPD029S	IPD029S	IPD029S
CALIBRATION REF:	ID8D018064	ID8D018064	ID8D018064

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Lead	ND	50	46.9	94	50	46.4	93	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE: 4.4
DILUTION FACTOR:	1	1	1
SAMPLE ID	: B3-0.5	B3-0.5MS	B3-0.5MSD
LAB SAMPLE ID	: D132-11	D132-11M	D132-11S
LAB FILE ID	: ID8D018074	ID8D018071	ID8D018072
DATE PREPARED	: 04/20/18 14:51	04/20/18 14:51	04/20/18 14:51
DATE ANALYZED	: 04/23/18 19:14	04/23/18 19:02	04/23/18 19:06
PREP BATCH	: IPD029S	IPD029S	IPD029S
CALIBRATION REF:	ID8D018064	ID8D018064	ID8D018064

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Lead	722	51.4	898	342*	50.5	798	150*	12	75-125	20

PSResult - Parent Sample Result
* Out of QC limit

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132
METHOD : 3050B/6010B

MATRIX	: SOIL	% MOISTURE: 4.4
DILUTION FACTOR	: 1	5
SAMPLE ID	: B3-0.5	B3-0.5
LAB SAMPLE ID	: D132-11	D132-11J
LAB FILE ID	: ID8D018074	ID8D018075
DATE PREPARED	: 04/20/18 14:51	04/20/18 14:51
DATE ANALYZED	: 04/23/18 19:14	04/23/18 19:17
PREP BATCH	: IPD029S	IPD029S
CALIBRATION REF	: ID8D018064	ID8D018064

ACCESSION:

PARAMETERS	Sample Result (mg/kg)	SD Result (mg/kg)	%Difference (%)	Max %D (%)
Lead	722	747	3	10

SD - Serial Dilution

LAB CHRONICLE
METALS 8Y TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD029SB	1.000	NA	04/23/1818:44	04/20/1814:51	ID8D018066	ID8D018064	IPD029S	Method Blank
LCS1S	IPD029SL	1.000	NA	04/23/1818:47	04/20/1814:51	ID8D018067	ID8D018064	IPD029S	Lab Control Sample (LCS)
LCD1S	IPD029SC	1.000	NA	04/23/1818:51	04/20/1814:51	ID8D018068	ID8D018064	IPD029S	LCS Duplicate
B3-0.5MS	D132-11M	1.000	4.4	04/23/1819:02	04/20/1814:51	ID8D018071	ID8D018064	IPD029S	Matrix Spike Sample (MS)
B3-0.5MSD	D132-11S	1.000	4.4	04/23/1819:06	04/20/1814:51	ID8D018072	ID8D018064	IPD029S	MS Duplicate (MSD)
B3-0.5	D132-11	1.000	4.4	04/23/1819:14	04/20/1814:51	ID8D018074	ID8D018064	IPD029S	Field Sample
B3-2	D132-12	1.000	9.0	04/23/1819:28	04/20/1814:51	ID8D018078	ID8D018076	IPD029S	Field Sample
B3-2D	D132-19	1.000	8.8	04/23/1819:40	04/20/1814:51	ID8D018081	ID8D018076	IPD029S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:06
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B3-0.5	Date Analyzed:	04/23/18 19:14
Lab Samp ID:	D132-11	Dilution Factor:	1
Lab File ID:	ID8D018074	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	4.4
Calib. Ref.:	ID8D018064	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	10.7	0.969	0.0969

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.08g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:17
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B3-2	Date Analyzed:	04/23/18 19:28
Lab Samp ID:	D132-12	Dilution Factor:	1
Lab File ID:	ID8D018078	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	9.0
Calib. Ref.:	ID8D018076	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	14.0	1.03	0.103

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.064g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:19
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B3-2D	Date Analyzed:	04/23/18 19:40
Lab Samp ID:	D132-19	Dilution Factor:	1
Lab File ID:	ID8D018081	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	8.8
Calib. Ref.:	ID8D018076	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	18.5	1.03	0.103

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.07g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	MBLK1S	Date Analyzed:	04/23/18 18:44
Lab Samp ID:	IPD029SB	Dilution Factor:	1
Lab File ID:	ID8D018066	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	NA
Calib. Ref.:	ID8D018064	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1g Final Volume:100ml
Prepared by : MCande Analyzed by:MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPD029SB	IPD029SL	IPD029SC
LAB FILE ID	: ID8D018066	ID8D018067	ID8D018068
DATE PREPARED	: 04/20/18 14:51	04/20/18 14:51	04/20/18 14:51
DATE ANALYZED	: 04/23/18 18:44	04/23/18 18:47	04/23/18 18:51
PREP BATCH	: IPD029S	IPD029S	IPD029S
CALIBRATION REF:	ID8D018064	ID8D018064	ID8D018064

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Cadmium	ND	50	45.2	90	50	44.6	89	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE: 4.4
DILUTION FACTOR:	1	1	1
SAMPLE ID	: B3-0.5	B3-0.5MS	B3-0.5MSD
LAB SAMPLE ID	: D132-11	D132-11M	D132-11S
LAB FILE ID	: ID8D018074	ID8D018071	ID8D018072
DATE PREPARED	: 04/20/18 14:51	04/20/18 14:51	04/20/18 14:51
DATE ANALYZED	: 04/23/18 19:14	04/23/18 19:02	04/23/18 19:06
PREP BATCH	: IPD029S	IPD029S	IPD029S
CALIBRATION REF:	ID8D018064	ID8D018064	ID8D018064

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Cadmium	10.7	51.4	57.1	90.3	50.5	57.3	92.3	0	75-125	20

PSResult - Parent Sample Result

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD029SB	1.000	NA	04/23/1818:44	04/20/1814:51	ID8D018066	ID8D018064	IPD029S	Method Blank
LCS1S	IPD029SL	1.000	NA	04/23/1818:47	04/20/1814:51	ID8D018067	ID8D018064	IPD029S	Lab Control Sample (LCS)
LCD1S	IPD029SC	1.000	NA	04/23/1818:51	04/20/1814:51	ID8D018068	ID8D018064	IPD029S	LCS Duplicate
B2-0.5	D132-06	1.000	2.0	04/23/1818:55	04/20/1814:51	ID8D018069	ID8D018064	IPD029S	Field Sample
B2-2	D132-07	1.000	5.3	04/23/1818:58	04/20/1814:51	ID8D018070	ID8D018064	IPD029S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 08:09
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B2-0.5	Date Analyzed:	04/23/18 18:55
Lab Samp ID:	D132-06	Dilution Factor:	1
Lab File ID:	ID8D018069	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	2.0
Calib. Ref.:	ID8D018064	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	7.45	0.990	0.396

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.031g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 08:32
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B2-2	Date Analyzed:	04/23/18 18:58
Lab Samp ID:	D132-07	Dilution Factor:	1
Lab File ID:	ID8D018070	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	5.3
Calib. Ref.:	ID8D018064	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	4.34	1.04	0.416

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.015g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	MBLK1S	Date Analyzed:	04/23/18 18:44
Lab Samp ID:	IPD029SB	Dilution Factor:	1
Lab File ID:	ID8D018066	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	NA
Calib. Ref.:	ID8D018064	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	ND	1.00	0.400

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPD029SB	IPD029SL	IPD029SC
LAB FILE ID	: ID8D018066	ID8D018067	ID8D018068
DATE PREPARED	: 04/20/18 14:51	04/20/18 14:51	04/20/18 14:51
DATE ANALYZED	: 04/23/18 18:44	04/23/18 18:47	04/23/18 18:51
PREP BATCH	: IPD029S	IPD029S	IPD029S
CALIBRATION REF:	ID8D018064	ID8D018064	ID8D018064

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Arsenic	ND	50	46.6	93	50	45.9	92	2	80-120	20

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 05-18-2018
EMAX Batch No.: 18D132A

Attn: Carrie Crozier

Parsons
100 West Walnut Street
Pasadena CA 91124

Subject: Laboratory Report
Project: POLA-1500 I STREET

Enclosed is the Laboratory report for samples received on 04/16/18.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
B2-5	D132-08	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
B2-10	D132-09	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
B2-15	D132-10	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
B3-5	D132-13	04/16/18	SOIL	CADMIUM
				LEAD
B4-5	D132-17	04/16/18	SOIL	LEAD

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912017-13
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHANGE ORDER FORM

SDG	18D132A	TAT	10 d	Project Code	PS_1802_
Requested by	Richard	Date Requested	05/08/18	Due Date	05/18/18

Analytical Requirements				
A X O	EMAX Control Number	Sample Prep. Methods	Analytical Methods	Special Instructions
A	D132-08 (B2-5)	5035A	8015B	TPH-GAS
		3550B	8015B	TPH-DIESEL/MOTOR
A	D132-09 (B2-10)	5035A	8015B	TPH-GAS
		3550B	8015B	TPH-DIESEL/MOTOR
A	D132-10 (B2-15)	5035A	8015B	TPH-GAS
		3550B	8015B	TPH-DIESEL/MOTOR
A	D132-13 (B3-5)	3050B	6010B	CADMIUM AND LEAD
A	D132-17 (B4-5)	3050B	6010B	LEAD

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: ~~451104~~ 451077
SAMPLE STORAGE

EMAX CONTROL NO. 18D132
PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☑ 7 days
- ☐ 14 days
- ☐ 21 days

SAMPLE ID		SAMPLING			CONTAINER			MATRIX CODE	QC	ANALYSIS REQUIRED / PRESERVATIVE CODE									COMMENTS
LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE			TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	
* 1	B1-0.5		4/16/18	1013	2			SS		X										
* 2	B1-2.0		4/16/18	1017	2			SS		X										
* 3	B1-5.0		4/16/18	1036	5			SS		X	X									
* 4	B1-10.0		4/16/18	1049	5			SS		X	X									
* 5	B1-15.0		4/16/18	1052	5			SS		X	X									
* 6	B2-0.5		4/16/18	0809	3			SS		X			X						H	
* 7	B2-2		4/16/18	0832	3			SS		X			X						H	
* 8	B2-5		4/16/18	0857	3			SS		H			H						H	
* 9	B2-10		4/16/18	0902	3			SS		H			H						H	
10	B2-15		4/16/18	0911	3			SS		H			H						H	

Instructions

Cooler #	Temp. (°C)	Sample #s
1	6.1	
2	2.8	
3	5.6	

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/16/18	527	
	4/16/18	1600	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: ~~451104~~ 451077
SAMPLE STORAGE

EMAX CONTROL NO. 18D132
PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT: ☐ Rush __24__hrs. ☐ Rush __48_hrs ☐ Rush_72_hrs ☑ 7 days ☐ 14 days ☐ 21 days

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	ANALYSIS REQUIRED: TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	PRESERVATIVE CODE	COMMENTS
*1	B3-0.5		4/16/18	1406	3			SS		X				X	X					H	
*2	B3-2			1417 ~~1419~~	3			SS		X				X	X					H	
*3	B3-5			1427	3			SS		H				H	H					H	
*4	B3-10			1452	3			SS		H				H	H					H	
*5	B4-0.5			1315	4			SS		X					X		X			H	
*6	B4-2			1337	4			SS		X					X		X			H	
*7	B4-5			1402	4			SS		H					H		H			H	
*8	B4-10			1408	4			SS		H					H		H			H	
*9	B3-2D		1419	~~1319~~	3			SS		X				X	X					H	
20	B4-0.5D		1317	~~1317~~	4			SS		X					X		X			H	

Instructions

Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/16/18	1527	
	4/16/18	1600	

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX Laboratories, Inc.	1835 W. 205th Street, Torrance, CA 90501 Tel # : 310-618-8889 FAX#: 310-618-0818 Email: info@emaxlabs.com	PO NUMBER: 451077 SAMPLE STORAGE	EMAX CONTROL NO. 18D132 PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT: ☐ Rush __24__hrs. ☐ Rush __48_hrs ☐ Rush_72_hrs ☑ 7 days ☐ 14 days ☐ 21 days

	SAMPLE ID		SAMPLING			CONTAINER			MATRIX CODE	QC	PRESERVATIVE CODE										COMMENTS
LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE			TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	
1	~~B15-18~~							~~SS~~		X	X			CC		X	X	X	H	
(21) 2	SG-2-5		4/16/18	0753	3	40ml	VOA	SS		CC X	X	CC X				CC X	CC X		H	
(22) 3	Trip Blank		4/16/18	1456	3						X									
(23) 4	BL		4/16/18	1145	7	–	·	GW		X	X									
5																				
6																				
7																				
8																				
9																				
10																				

Instructions

Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/16/18	1527	
	4/16/18	1600	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

SAMPLE RECEIPT FORM 1

Reference: EMAX-SM02 Rev.9
Form: SM02F1
Page 1 of 2

Type of Delivery	Airbill / Tracking Number	ECN 18D132
☐ Fedex ☐ UPS ☐ GSO ☑ Others	All Around	Recipient New Guthlo
☐ EMAX Courier ☐ Client Delivery		Date 4/16/18 Time 1600

COC INSPECTION

☑ Client Name	☑ Client PM/FC	☐ Sampler Name	☑ Sampling Date/Time	☑ Sample ID	☐ Matrix
☑ Address	☑ Tel # / Fax #	☑ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: Corrections on COC not dated

PACKAGING INSPECTION

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☐ Intact	☐ Damaged		
Packaging	☐ Bubble Pack	☐ Styrofoam	☐ Popcorn	☐ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☑ Cooler 1 6.1 °C	☑ Cooler 2 2.8 °C	☑ Cooler 3 5.6 °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	*A - S/N* _____	*B - S/N* 150555522	*C - S/N* _____	(D) *S/N* 150555630	

Comments: ☐ Temperature is out of range, PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
3	5-9	D3	B1-5 On label	R1
4	10-14	D3	B1-10 On label	↓
5	15-19	D3	B1-15 on label	R8
22	73-76	D1		
23	78,77	D1		
13,20	42,68,69	D10		
1-22 (NC 4/18/18)		D16	pres not indicated on COC	
22,23		D16	pres not indicated on COC / label (Sediment on Labels)	
2	3,4	D3	B1-2 On label	R1
21		D22	No jar provided NV	R8
			TCLP/STLC - COC reads H	↓
23	82	D23	See below	R8
			4/18/18	

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS: Labels attached directly to Pre-weighed vials - Weight is visible TCLP/STLC not written on labels → See Hardcopy in 18D138
*1-5, 21 Samples: Moisture per ND+ provided with samples *Samples 15-18, 20 vials read TPH-PCBs
*Samples 6-10: vials label reads TPH-Arsenic *Samples 11-14: vials read TPH-lead
*19 Samples: vial label reads cadmium-lead

LEGEND: ☐ Continue to next page.

Code	Description- Sample Management
(D1)	Analysis is not indicated in Label
D2	Analysis mismatch COC vs label
(D3)	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in _____
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
(D10)	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
(D16)	Preservation not indicated in _____
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
(D22)	See above
(D23)	Received 1c Amber for TPH WCs
D24	

Code	Description-Sample Management
R1	Proceed as indicated in ☒ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	Informed Client.
R9	
R10	
R11	
R12	

REVIEWS:

Sample Labeling _____ Date 4/16/18 4/16/18

SRF _____ Date 4/17/18

PM _____ Date 4/17/18

Richard Beauvil

From: Crozier, Carrie [Carrie.Crozier@parsons.com]
Sent: Tuesday, May 08, 2018 3:43 PM
To: Hang Bui
Cc: Richard Beauvil
Subject: RE: Data Files Transmittal: PARSONS - POLA 1500 - I STREET. SDG: 18D132 EMAXSTD.

Hi EMAX team,
Please run the following samples currently on hold:
B2-5 for TPH
B2-10 for TPH
B2-15 for TPH
B3-5 Cadmium and Lead
B4-5 Lead
Thanks!

Carrie Crozier
Phone - 626.440.2747 Cell - 626.482.6088
Carrie.Crozier@Parsons.com

From: Hang Bui <Hangt@emaxlabs.com>
Sent: Tuesday, May 08, 2018 11:17 AM
To: Crozier, Carrie <Carrie.Crozier@parsons.com>; Girod, Michael <Michael.Girod@parsons.com>
Cc: Richard Beauvil <RBeauvil@emaxlabs.com>
Subject: Data Files Transmittal: PARSONS - POLA 1500 - I STREET. SDG: 18D132 EMAXSTD.

18D132 EMAXSTD.

Best Regards,

Hang T Bui
Emax Laboratories, Inc
Email: hbui@emaxlabs.com

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D132A

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132A

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of three (3) soil samples were received on 04/16/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5035A/SW8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. GME001SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. GME001SL/GME001SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
All samples displayed a non-gasoline pattern.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D132A
Instrument ID : GCT039

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1S	GME001SL	1	NA	05/11/1812:03	05/11/1810:12	EE11004A	EE11003A	18GME001S	Lab Control Sample (LCS)
LCD1S	GME001SC	1	NA	05/11/1812:42	05/11/1810:12	EE11005A	EE11003A	18GME001S	LCS Duplicate
MBLK1S	GME001SB	1	NA	05/11/1813:22	05/11/1810:12	EE11006A	EE11003A	18GME001S	Method Blank
B2-15	18D132-10J	20	19.4	05/11/1816:09	05/11/1810:12	EE11010A	EE11003A	18GME001S	Diluted Sample
B2-10	18D132-09J	20	12.9	05/11/1816:48	05/11/1810:12	EE11011A	EE11003A	18GME001S	Diluted Sample
B2-5	18D132-08J	20	11.0	05/11/1817:28	05/11/1810:12	EE11012A	EE11003A	18GME001S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/16/18 08:57
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132A	Date Extracted:	05/11/18 10:12
Sample ID	: B2-5	Date Analyzed:	05/11/18 17:28
Lab Samp ID:	18D132-08J	Dilution Factor:	20
Lab File ID:	EE11012A	Matrix:	SOIL
Ext Btch ID:	18GME001S	% Moisture:	11.0
Calib. Ref.:	EE11003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	450	0.78	0.39

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.89	1.56	121	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 7.19g	Final Volume :	5ml (5uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/16/18 09:02
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132A	Date Extracted:	05/11/18 10:12
Sample ID	: B2-10	Date Analyzed:	05/11/18 16:48
Lab Samp ID:	18D132-09J	Dilution Factor:	20
Lab File ID:	EE11011A	Matrix:	SOIL
Ext Btch ID:	18GME001S	% Moisture:	12.9
Calib. Ref.:	EE11003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	790	0.82	0.41

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	2.59	1.64	158	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 7.012g	Final Volume :	5ml (5uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/16/18 09:11
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132A	Date Extracted:	05/11/18 10:12
Sample ID	: B2-15	Date Analyzed:	05/11/18 16:09
Lab Samp ID:	18D132-10J	Dilution Factor:	20
Lab File ID:	EE11010A	Matrix:	SOIL
Ext Btch ID:	18GME001S	% Moisture:	19.4
Calib. Ref.:	EE11003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	670	1.1	0.55

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	2.83	2.20	129	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.636g	Final Volume :	5ml (5uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

QC SUMMARIES

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	05/11/18 10:12
Project	: POLA-1500 I STREET	Date Received:	05/11/18
Batch No.	: 18D132A	Date Extracted:	05/11/18 10:12
Sample ID	: MBLK1S	Date Analyzed:	05/11/18 13:22
Lab Samp ID:	GME001SB	Dilution Factor:	1
Lab File ID:	EE11006A	Matrix:	SOIL
Ext Btch ID:	18GME001S	% Moisture:	NA
Calib. Ref.:	EE11003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.82	2.00	91	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132A
METHOD : SW5035A/SW8015B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: GME001SB	GME001SL	GME001SC
LAB FILE ID	: EE11006A	EE11004A	EE11005A
DATE PREPARED	: 05/11/18 10:12	05/11/18 10:12	05/11/18 10:12
DATE ANALYZED	: 05/11/18 13:22	05/11/18 12:03	05/11/18 12:42
PREP BATCH	: 18GME001S	18GME001S	18GME001S
CALIBRATION REF:	EE11003A	EE11003A	EE11003A

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	25.0	24.1	96	25.0	25.0	100	4	60-130	50

SURROGATE PARAMETER	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	2.00	2.09	104	2.00	2.17	109	70-140

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D132A

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132A

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of three (3) soil samples were received on 04/16/18 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3550B/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSE009SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSE009SL/DSE009SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

All samples displayed mixed fuel pattern.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132A
Instrument ID : D5

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	DSE009SB	1	NA	05/10/1819:04	05/10/1811:50	LE10030A	LE10020A	18DSE009S	Method Blank
LCS1S	DSE009SL	1	NA	05/10/1819:21	05/10/1811:50	LE10031A	LE10020A	18DSE009S	Lab Control Sample (LCS)
LCD1S	DSE009SC	1	NA	05/10/1819:38	05/10/1811:50	LE10032A	LE10020A	18DSE009S	LCS Duplicate
B2-5	D132-08I	5	11.0	05/10/1820:28	05/10/1811:50	LE10035A	LE10033A	18DSE009S	Diluted Sample
B2-10	D132-09I	5	12.9	05/10/1820:45	05/10/1811:50	LE10036A	LE10033A	18DSE009S	Diluted Sample
B2-15	D132-10I	5	19.4	05/10/1821:02	05/10/1811:50	LE10037A	LE10033A	18DSE009S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18 08:57
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132A	Date Extracted: 05/10/18 11:50
Sample ID : B2-5	Date Analyzed: 05/10/18 20:28
Lab Samp ID: 18D132-08I	Dilution Factor: 5
Lab File ID: LE10035A	Matrix: SOIL
Ext Btch ID: 18DSE009S	% Moisture: 11.0
Calib. Ref.: LE10033A	Instrument ID: D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	7000	56	28
Motor Oil	6700	110	28

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	126	112	112	50-130
Hexacosane	32.3	28.1	115	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount : 10.03g	Final Volume : 10ml
Prepared by : JVille	Analyzed by : SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/16/18 09:02
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132A	Date Extracted:	05/10/18 11:50
Sample ID	: B2-10	Date Analyzed:	05/10/18 20:45
Lab Samp ID:	18D132-09I	Dilution Factor:	5
Lab File ID:	LE10036A	Matrix:	SOIL
Ext Btch ID:	18DSE009S	% Moisture:	12.9
Calib. Ref.:	LE10033A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	8600	57	29
Motor Oil	7900	110	29

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	126	115	110	50-130
Hexacosane	35.3	28.7	123	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume :	10ml
Prepared by	: JVille	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18 09:11
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132A	Date Extracted: 05/10/18 11:50
Sample ID : B2-15	Date Analyzed: 05/10/18 21:02
Lab Samp ID: 18D132-10I	Dilution Factor: 5
Lab File ID: LE10037A	Matrix: SOIL
Ext Btch ID: 18DSE009S	% Moisture: 19.4
Calib. Ref.: LE10033A	Instrument ID: D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	5500	62	31
Motor Oil	5200	120	31

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	128	124	103	50-130
Hexacosane	34.9	31.0	113	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.
Sample Amount : 10g Final Volume : 10ml
Prepared by : JVille Analyzed by : SDeeso

QC SUMMARIES

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	05/10/18 11:50
Project	: POLA-1500 I STREET	Date Received:	05/10/18
Batch No.	: 18D132A	Date Extracted:	05/10/18 11:50
Sample ID	: MBLK1S	Date Analyzed:	05/10/18 19:04
Lab Samp ID:	DSE009SB	Dilution Factor:	1
Lab File ID:	LE10030A	Matrix:	SOIL
Ext Btch ID:	18DSE009S	% Moisture:	NA
Calib. Ref.:	LE10020A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.0
Motor Oil	ND	20	5.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	95.3	100	95	50-130
Hexacosane	25.7	25.0	103	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume :	10ml
Prepared by	: JVille	Analyzed by :	SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132A
METHOD : 3550B/8015B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: DSE009SB	DSE009SL	DSE009SC
LAB FILE ID	: LE10030A	LE10031A	LE10032A
DATE PREPARED	: 05/10/18 11:50	05/10/18 11:50	05/10/18 11:50
DATE ANALYZED	: 05/10/18 19:04	05/10/18 19:21	05/10/18 19:38
PREP BATCH	: 18DSE009S	18DSE009S	18DSE009S
CALIBRATION REF	: LE10020A	LE10020A	LE10020A

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	500	416	83	500	426	85	2	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	QCLimit (%)
Bromobenzene	100	98.9	99	100	93.1	93	50-130
Hexacosane	25.0	26.2	105	25.0	24.9	100	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3050B/6010B
METALS BY TRACE ICP

SDG#: 18D132A

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132A

METHOD 3050B/6010B
METALS BY TRACE ICP

One (1) soil sample was received on 04/16/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
The sample was digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPE011SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPE011SL/IPE011SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132A

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of two (2) soil samples were received on 04/16/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPE011SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPE011SL/IPE011SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Lead was within MS QC limits in D132-17M/S. Refer to Matrix QC summary form for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132A
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPE011SB	1.000	NA	05/14/1818:57	05/10/1810:56	ID8E010048	ID8E010046	IPE011S	Method Blank
LCS1S	IPE011SL	1.000	NA	05/14/1819:01	05/10/1810:56	ID8E010049	ID8E010046	IPE011S	Lab Control Sample (LCS)
LCD1S	IPE011SC	1.000	NA	05/14/1819:04	05/10/1810:56	ID8E010050	ID8E010046	IPE011S	LCS Duplicate
B3-5	D132-13	1.000	15.8	05/14/1819:08	05/10/1810:56	ID8E010051	ID8E010046	IPE011S	Field Sample
B4-5MS	D132-17M	1.000	11.1	05/14/1819:12	05/10/1810:56	ID8E010052	ID8E010046	IPE011S	Matrix Spike Sample (MS)
B4-5MSD	D132-17S	1.000	11.1	05/14/1B19:15	05/10/1810:56	ID8E010053	ID8E010046	IPE011S	MS Duplicate (MSD)
B4-5	D132-17	1.000	11.1	05/14/1819:23	05/10/1810:56	ID8E010055	ID8E010046	IPE011S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:27
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132A	Date Extracted:	05/10/18 10:56
Sample ID:	B3-5	Date Analyzed:	05/14/18 19:08
Lab Samp ID:	D132-13	Dilution Factor:	1
Lab File ID:	ID8E010051	Matrix:	SOIL
Ext Btch ID:	IPE011S	% Moisture:	15.8
Calib. Ref.:	ID8E010046	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	8.74	1.17	0.235

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.011g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/16/18 14:02
Project : POLA-1500 I STREET	Date Received: 04/16/18
SDG NO. : 18D132A	Date Extracted: 05/10/18 10:56
Sample ID: B4-5	Date Analyzed: 05/14/18 19:23
Lab Samp ID: D132-17	Dilution Factor: 1
Lab File ID: ID8E010055	Matrix: SOIL
Ext Btch ID: IPE011S	% Moisture: 11.1
Calib. Ref.: ID8E010046	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	6.33	1.09	0.217

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.036g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132A	Date Extracted:	05/10/18 10:56
Sample ID:	MBLK1S	Date Analyzed:	05/14/18 18:57
Lab Samp ID:	IPE011SB	Dilution Factor:	1
Lab File ID:	ID8E010048	Matrix:	SOIL
Ext Btch ID:	IPE011S	% Moisture:	NA
Calib. Ref.:	ID8E010046	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.200

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132A
METHOD : 30508/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPE011S8	IPE011SL	IPE011SC
LAB FILE ID	: ID8E010048	ID8E010049	ID8E010050
DATE PREPARED	: 05/10/18 10:56	05/10/18 10:56	05/10/18 10:56
DATE ANALYZED	: 05/14/18 18:57	05/14/18 19:01	05/14/18 19:04
PREP BATCH	: IPE011S	IPE011S	IPE011S
CALIBRATION REF	: ID8E010046	ID8E010046	ID8E010046

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Lead	ND	50	47.8	96	50	47.4	95	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132A
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE: 11.1
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B4-5	B4-5MS	B4-5MSD
LAB SAMPLE ID	: D132-17	D132-17M	D132-17S
LAB FILE ID	: ID8E010055	ID8E010052	ID8E010053
DATE PREPARED	: 05/10/18 10:56	05/10/18 10:56	05/10/18 10:56
DATE ANALYZED	: 05/14/18 19:23	05/14/18 19:12	05/14/18 19:15
PREP BATCH	: IPE011S	IPE011S	IPE011S
CALIBRATION REF	: ID8E010046	ID8E010046	ID8E010046

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Lead	6.33	52.2	57.4	97.8	52.6	57.5	97.3	0	75-125	20

PSResult - Parent Sample Result

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132A
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPE011SB	1.000	NA	05/14/1818:57	05/10/1810:56	ID8E010048	ID8E010046	IPE011S	Method Blank
LCS1S	IPE011SL	1.000	NA	05/14/1819:01	05/10/1810:56	ID8E010049	ID8E010046	IPE011S	Lab Control Sample (LCS)
LCD1S	IPE011SC	1.000	NA	05/14/1819:04	05/10/1810:56	ID8E010050	ID8E010046	IPE011S	LCS Duplicate
B3-5	D132-13	1.000	15.8	05/14/1819:08	05/10/1810:56	ID8E010051	ID8E010046	IPE011S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:27
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132A	Date Extracted:	05/10/18 10:56
Sample ID:	B3-5	Date Analyzed:	05/14/18 19:08
Lab Samp ID:	D132-13	Dilution Factor:	1
Lab File ID:	ID8E010051	Matrix:	SOIL
Ext Btch ID:	IPE011S	% Moisture:	15.8
Calib. Ref.:	ID8E010046	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.396J	1.17	0.117

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.011g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132A	Date Extracted:	05/10/18 10:56
Sample ID:	MBLK1S	Date Analyzed:	05/14/18 18:57
Lab Samp ID:	IPE011SB	Dilution Factor:	1
Lab File ID:	ID8E010048	Matrix:	SOIL
Ext Btch ID:	IPE011S	% Moisture:	NA
Calib. Ref.:	ID8E010046	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132A
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPE011SB	IPE011SL	IPE011SC
LAB FILE ID	: ID8E010048	ID8E010049	ID8E010050
DATE PREPARED	: 05/10/18 10:56	05/10/18 10:56	05/10/18 10:56
DATE ANALYZED	: 05/14/18 18:57	05/14/18 19:01	05/14/18 19:04
PREP BATCH	: IPE011S	IPE011S	IPE011S
CALIBRATION REF:	ID8E010046	ID8E010046	ID8E010046

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Cadmium	ND	50	48.6	97	50	47.2	94	3	80-120	20

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 13:15
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132B	Date Extracted:	05/24/18 10:18
Sample ID:	B4-0.5	Date Analyzed:	05/24/18 16:13
Lab Samp ID:	D132-15I	Dilution Factor:	5
Lab File ID:	ID8E019051	Matrix:	LEACHATE
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Cadmium	0.214J	0.250	0.0500
Lead	32.7	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:19
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132B	Date Extracted:	05/24/18 10:18
Sample ID:	B3-2D	Date Analyzed:	05/24/18 16:17
Lab Samp ID:	D132-19I	Dilution Factor:	5
Lab File ID:	ID8E019052	Matrix:	LEACHATE
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Cadmium	1.19	0.250	0.0500
Lead	90.0	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132B	Date Extracted:	05/24/18 10:18
Sample ID:	MBLK1W	Date Analyzed:	05/24/18 15:58
Lab Samp ID:	IPE028WB	Dilution Factor:	1
Lab File ID:	ID8E019047	Matrix:	WATER
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Cadmium	ND	0.0100	0.00200
Lead	ND	0.0100	0.00300

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 50ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132B	Date Extracted:	05/24/18 10:18
Sample ID	: MBLK2W	Date Analyzed:	05/24/18 16:09
Lab Samp ID	: WTE003SB	Dilution Factor:	5
Lab File ID	: ID8E019050	Matrix:	LEACHATE
Ext Btch ID	: IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Cadmium	ND	0.250	0.0500
Lead	ND	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

D132-15I.TXT
D132-19I.TXT
IPE028WB.TXT
IPE028WC.TXT
IPE028WL.TXT
WTE003SB.TXT

```
00  ID8E019014  ICV        |
00  ID8E019015  ICB        |
00  ID8E019016  ICSA1      |
00  ID8E019017  ICSAB1     |
00  ID8E019019  CCV1       |
00  ID8E019020  CCB1       |
00  ID8E019045  CCV4       |
00  ID8E019046  CCB4       |
00  ID8E019047  IPE028WB   |
00  ID8E019048  IPE028WL   |
00  ID8E019049  IPE028WC   |
00  ID8E019050  WTE003SB   |
00  ID8E019051  D132-15I   |
00  ID8E019052  D132-19I   |
00  ID8E019055  CCV5       |
00  ID8E019056  CCB5       |
```

"1","IPE028WB","ID8E019047"
"2","IPE028WL","ID8E019048"
"3","IPE028WC","ID8E019049"
"4","WTE003SB","ID8E019050"

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132B
METHOD : WET/3010A/6010B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: IPE028WB	IPE028WL	IPE028WC
LAB FILE ID	: ID8E019047	ID8E019048	ID8E019049
DATE PREPARED	: 05/24/18 10:18	05/24/18 10:18	05/24/18 10:18
DATE ANALYZED	: 05/24/18 15:58	05/24/18 16:02	05/24/18 16:06
PREP BATCH	: IPE028W	IPE028W	IPE028W
CALIBRATION REF	: ID8E019045	ID8E019045	ID8E019045

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Cadmium	ND	0.5	0.456	91	0.5	0.460	92	1	80-120	20
Lead	ND	0.5	0.460	92	0.5	0.465	93	1	80-120	20

METHOD 1311/3010A/6010B
TCLP LEAD BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 13:15
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132B	Date Extracted:	05/23/18 11:20
Sample ID:	B4-0.5	Date Analyzed:	05/23/18 17:35
Lab Samp ID:	D132-15	Dilution Factor:	1
Lab File ID:	ID8E018025	Matrix:	LEACHATE
Ext Btch ID:	IPE027W	% Moisture:	NA
Calib. Ref.:	ID8E018018	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Lead	0.343	0.0500	0.0150

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: THuang	Analyzed by:	THuang
DateTime Leached:	05/21/18 15:30		

METHOD 1311/3010A/6010B
TCLP LEAD BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:19
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132B	Date Extracted:	05/23/18 11:20
Sample ID:	B3-2D	Date Analyzed:	05/23/18 17:51
Lab Samp ID:	D132-19	Dilution Factor:	1
Lab File ID:	ID8E018029	Matrix:	LEACHATE
Ext Btch ID:	IPE027W	% Moisture:	NA
Calib. Ref.:	ID8E018018	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Lead	2.72	0.0500	0.0150

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: THuang	Analyzed by:	THuang
DateTime Leached:	05/21/18 15:30		

METHOD 1311/3010A/6010B
TCLP LEAD BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132B	Date Extracted:	05/23/18 11:20
Sample ID:	MBLK1W	Date Analyzed:	05/23/18 17:16
Lab Samp ID:	IPE027WB	Dilution Factor:	1
Lab File ID:	ID8E018020	Matrix:	WATER
Ext Btch ID:	IPE027W	% Moisture:	NA
Calib. Ref.:	ID8E018018	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Lead	ND	0.0100	0.00300

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 50ml	Final Volume:	50ml
Prepared by	: THuang	Analyzed by:	THuang

METHOD 1311/3010A/6010B
TCLP LEAD BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132B	Date Extracted:	05/23/18 11:20
Sample ID:	MBLK2W	Date Analyzed:	05/23/18 17:27
Lab Samp ID:	TXE013SB	Dilution Factor:	1
Lab File ID:	ID8E018023	Matrix:	LEACHATE
Ext Btch ID:	IPE027W	% Moisture:	NA
Calib. Ref.:	ID8E018018	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Lead	ND	0.0500	0.0150

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: THuang	Analyzed by:	THuang
DateTime Leached:	05/21/18 15:30		

D132-15.TXT
D132-15M.TXT
D132-15S.TXT
D132-19.TXT
IPE027WB.TXT
IPE027WC.TXT
IPE027WL.TXT
TXE013SB.TXT

```
00  ID8E018014  ICV        |
00  ID8E018015  ICB        |
00  ID8E018016  ICSA1      |
00  ID8E018017  ICSAB1     |
00  ID8E018018  CCV1       |
00  ID8E018019  CCB1       |
00  ID8E018020  IPE027WB   |
00  ID8E018021  IPE027WL   |
00  ID8E018022  IPE027WC   |
00  ID8E018023  TXE013SB   |
00  ID8E018025  D132-15    |
00  ID8E018029  D132-19    |
00  ID8E018030  CCV2       |
00  ID8E018031  CCB2       |
00  ID8E018032  D132-15M   |
00  ID8E018033  D132-15S   |
00  ID8E018034  CCV3       |
00  ID8E018035  CCB3       |
```

```
"1","IPE027WB","ID8E018020"
"2","IPE027WL","ID8E018021"
"3","IPE027WC","ID8E018022"
"4","TXE013SB","ID8E018023"
"5","D132-15M","ID8E018032"
"6","D132-15","ID8E018025"
"7","D132-15S","ID8E018033"
```

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132B
METHOD : 1311/3010A/6010B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: IPE027WB	IPE027WL	IPE027WC
LAB FILE ID	: ID8E018020	ID8E018021	ID8E018022
DATE PREPARED	: 05/23/18 11:20	05/23/18 11:20	05/23/18 11:20
DATE ANALYZED	: 05/23/18 17:16	05/23/18 17:20	05/23/18 17:24
PREP BATCH	: IPE027W	IPE027W	IPE027W
CALIBRATION REF	: ID8E018018	ID8E018018	ID8E018018

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Lead	ND	0.5	0.459	92	0.5	0.471	94	3	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132B
METHOD : 1311/3010A/6010B

MATRIX : LEACHATE % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID : B4-0.5 B4-0.5MS B4-0.5MSD
LAB SAMPLE ID : D132-15 D132-15M D132-15S
LAB FILE ID : ID8E018025 ID8E018032 ID8E018033
DATE PREPARED : 05/23/18 11:20 05/23/18 11:20 05/23/18 11:20
DATE ANALYZED : 05/23/18 17:35 05/23/18 18:02 05/23/18 18:06
PREP BATCH : IPE027W IPE027W IPE027W
CALIBRATION REF: ID8E018018 ID8E018030 ID8E018030

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Lead	0.343	2.5	2.63	91.5	2.5	2.50	86.3	5	75-125	20

PSResult - Parent Sample Result

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 05-10-2018
EMAX Batch No.: 18D138

Attn: Carrie Crozier

Parsons
100 West Walnut Street
Pasadena CA 91124

Subject: Laboratory Report
Project: POLA-1500 I STREET

Enclosed is the Laboratory report for samples received on 04/17/18.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
B1-0.5	D138-01	04/17/18	SOIL	TPH DIESEL & MOTOR OIL
B1-2	D138-02	04/17/18	SOIL	TPH DIESEL & MOTOR OIL
B1-5	D138-03	04/17/18	SOIL	TPH DIESEL & MOTOR OIL
B1-10	D138-04	04/17/18	SOIL	TPH DIESEL & MOTOR OIL
TRIP BLANK	D138-05	04/17/18	WATER	VOLATILE ORGANICS BY GC/MS
B1-15	D138-06	04/17/18	SOIL	TPH DIESEL & MOTOR OIL
B14	D138-07	04/17/18	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				PAH BY 8270C SIM LOW
B7-0.5	D138-08	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
B7-2	D138-09	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
				VOLATILE ORGANICS BY GC/MS
B15-10	D138-10	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
				VOLATILE ORGANICS BY GC/MS
B9-5	D138-11	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
B9-5	D138-11	04/17/18	SOIL	POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
				VOLATILE ORGANICS BY GC/MS

Sample ID	Control #	Col Date	Matrix	Analysis
B9-10	D138-12	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
				VOLATILE ORGANICS BY GC/MS
B10-0.5	D138-13	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
B10-2	D138-14	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
				VOLATILE ORGANICS BY GC/MS
B10-5	D138-15	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
				VOLATILE ORGANICS BY GC/MS
B10-10	D138-16	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
				VOLATILE ORGANICS BY GC/MS
B7	D138-17	04/17/18	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				PAH BY 8270C SIM LOW

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912017-13
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 451077
SAMPLE STORAGE

EMAX CONTROL NO. 18D138
PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☑ 7 days
- ☐ 14 days
- ☐ 21 days

LAB	SAMPLE ID CLIENT	LOCATION	SAMPLING DATE	SAMPLING TIME	CONTAINER NO.	CONTAINER SIZE	CONTAINER TYPE	MATRIX CODE	QC	TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
* 1	B1-0.5		4/17/18	0719	1			SS		X										18D138-1
* 2	B1-2		4/17/18	0725	1			SS		X										18D138-2
* 3	B1-5		4/17/18	0740	1			SS		X										18D138-3
* 4	B1-10		4/17/18	0750	1			SS		X										18D138-4
* 5	Trip Blank		4/17/18	0900	3			W			X									18D135-5
* 6	B1-15		4/17/18	0758	1			SS		X										18D138-6
* 7	B14		4/17/18	1415	7			GW		X	X	✓								18D135-7
* 8	B7-0.5		4/17/18	0839	4			SS		X						X	X	X	H	18D135-8
* 9	B7-2		4/17/18	0844	7			SS		X	X					X	X	X	H	18D135-9
10	B15-10		4/17/18	1111	7			SS		X	X					X	X	X	H	18D135-10

Instructions

Cooler #	Temp. (°C)
1	4.4
2	5.3
3	5.7
4	5.1

Sample #s

SAMPLER
COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/17/18	1500	
OCC 2699 Matt M.	4/17/18	3:00	
OCC 2699 Matt M.	4/17/18	3:35	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 451077
SAMPLE STORAGE

EMAX CONTROL NO. 18D138
PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☑ 7 days
- ☐ 14 days
- ☐ 21 days

SAMPLE ID LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	SAMPLING DATE	SAMPLING TIME	CONTAINER NO.	CONTAINER SIZE	CONTAINER TYPE	MATRIX CODE	QC	TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
PRESERVATIVE CODE																				
* 1	B9-5		4/17/18	1310	7			SS		X	X					X	X	X	H	
* 2	B9-10		4/17/18	1318	7			SS		X	X					X	X	X	H	
* 3	B10-0.5		4/17/18	1342	4			SS		X						X	X	X	H	
* 4	B10-2		4/17/18	1345	7			SS		X	X					X	X	X	H	
* 5	B10-5		4/17/18	1400	7			SS		X	X					X	X	X	H	
* 6	B10-10		4/17/18	1405	7			SS		X	X					X	X	X	H	
* 7	~~B11-0.5~~ CC 4/17/18							~~SS~~	CC 4/17/18	~~X~~	~~CC~~	4/17/18				~~X~~	~~X~~	~~X~~	~~H~~	CC 4/17/18
* 8	~~B11-2~~ CC 4/17/18							~~SS~~	CC 4/17/18	~~X~~	~~X~~	CC 4/17/18				~~X~~	~~X~~	~~X~~	~~H~~	CC 4/17/18
* 9	~~B11-5~~ CC 4/17/18							~~SS~~	CC	~~X~~	~~X~~	CC 4/17/18				~~X~~	~~X~~	~~X~~	~~H~~	CC 4/17/18
10	4/17/18 B7		4/17/18	1338	7			4/17/18		X	X	X								

Instructions	Cooler #	Temp. (°C)	Sample #s
	1	4.4	
	2	5.3	
	3	5.7	
	4	5.1	

SAMPLER
COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/17/18	1500	
occ 2699 matt M.	4/17/18	3:00	
occ 2699 matt M.	4/17/18	3:33	[illegible] Mott 9

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 18D138
☐ Fedex ☐ UPS ☐ GSO ☒ Others	All around courier	Recipient Isabel
☐ EMAX Courier ☐ Client Delivery		Date 04/17/18 Time 15:35

COC INSPECTION

☒ Client Name	☒ Client PM/FC	☐ Sampler Name	☒ Sampling Date/Time	☒ Sample ID	☒ Matrix
☒ Address	☒ Tel # / Fax #	☒ Courier Signature	☒ Analysis Required	☒ Preservative (if any)	☒ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: _____

PACKAGING INSPECTION

Container	☒ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☒ Intact	☐ Damaged		
Packaging	☒ Bubble Pack	☐ Styrofoam	☐ Popcorn	☐ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☒ Cooler 1 4.4 °C	☒ Cooler 2 5.3 °C	☒ Cooler 3 5.7 °C	☒ Cooler 4 5.1 °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	*A - S/N* _____	*B - S/N* 150555522	*C - S/N* _____	*D - S/N* 150555620	

Comments: ☐ Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
7,17	9-10,12-14, 73-78	D16	Pres. accordingly	R8
5	5-7	D22	Per EMAX sticker "TB-004-02-02"	R1
7	11	D23	Marked according to packaging	R8
3,4,6, 8-16	3,4,8,16-31, 34-72	D10		R8
7,17	15,79	D14	1-L for TPH + SVOC	R9

04/17/18

NB 4/18/18

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS ① Labels placed directly on pre weighed Terra core vials (weights visible)

② Samples 1-4, 6 (1-4, 8) vials located in SDG 18D132

Sample #7 has sediment.

☐ Continue to next page.

LEGEND:

Code	Description- Sample Management
D1	Analysis is not indicated in _____
D2	Analysis mismatch COC vs label
D3	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in _____
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
D10	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
D16	Preservation not indicated in label
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
D22	No Label, Trip Blank
D23	Sample received w/ no label (Client labeled 1/bag)
D24	_____

Code	Description-Sample Management
R1	Proceed as indicated in ☒ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	Informed client
R9	Use 500ml for each test.
R10	_____
R11	_____
R12	_____

REVIEWS:

Sample Labeling Date 04/17/18 04/17/18

SRF Date 4/18/18

PM Date 4/18/18

Richard Beauvil

From: Crozier, Carrie [Carrie.Crozier@parsons.com]
Sent: Wednesday, April 18, 2018 2:37 PM
To: Richard Beauvil
Subject: RE: 18D132 SAMPLING AT 1500 I STREET

Hi Richard,
Please run the following samples, currently on hold from the POLA I Street project:

PCBs	PAHs	Metals
B7-0.5	B7-0.5	B11-0.5
B8-0.5	B8-0.5	B12-0.5
B9-0.5	B9-0.5	B13-0.5
B10-0.5	B10-0.5	
B11-0.5	B11-0.5	
B12-0.5	B12-0.5	
B13-0.5	B13-0.5	
B14-0.5	B14-0.5	
B15-0.5	B15-0.5	
	B7-2	
	B7-5	
	B7-10	
	B7-15	
	B8-2	
	B8-5	
	B8-10	
	B9-2	
	B9-5	
	B9-10	
	B10-2	
	B10-5	
	B10-10	
	B11-2	B11-2
	B11-5	B11-5
	B11-10	B11-10
	B11-15	B11-15
	B12-2	B12-2
	B12-5	B12-5
	B12-10	B12-10
	B13-2	B13-2
	B13-5	B13-5
	B13-10	B13-10
	B14-2	B14-2
	B14-5	B14-5
	B14-10	B14-10

	B14-15	B14-15
	B15-2	B15-2
	B15-5	B15-5
	B15-10	B15-10

Any other samples currently on hold should remain on hold.
Thanks!

Carrie Crozier
Phone – 626.440.2747 Cell - 626.482.6088
Carrie.Crozier@Parsons.com

From: Crozier, Carrie
Sent: Wednesday, April 18, 2018 10:45 AM
To: Richard Beauvil <RBeauvil@emaxlabs.com>
Subject: Re: 18D132 SAMPLING AT 1500 I STREET

Hi Richard,
I left a voicemail, please hold PCBs and PAHs sent in from 1517-1520 E I St yesterday 4/17. I will send you a revised list shortly. Any sent in on 4/16 should follow the COC as provided.

Sent from my iPhone

On Apr 17, 2018, at 10:22 AM, Richard Beauvil <RBeauvil@emaxlabs.com> wrote:

> Great! Thank you.
>
> Richard M. Beauvil
> Project Manager/Safety Officer
> 1835 W. 205th Street
> Torrance, CA 90501
> Tel: 310-618-8889 X118
> rbeauvil@emaxlabs.com
>
> *EMAX* is interested in your feedback; please provide your comments to:
> customerservice@emaxlabs.com
>
> ***EMAX Holidays Schedule:***
>
> ---
>
> **From:** Crozier, Carrie [mailto:Carrie.Crozier@parsons.com]
> **Sent:** Tuesday, April 17, 2018 9:58 AM
> **To:** Richard Beauvil
> **Subject:** Re: 18D132 SAMPLING AT 1500 I STREET
>
> Have have collected jars and will submit them today.
>
> Sent from my iPhone
>
> On Apr 17, 2018, at 9:55 AM, Richard Beauvil <RBeauvil@emaxlabs.com> wrote:

Do you mean, you are not or you are?

Richard M. Beauvil
Project Manager/Safety Officer
1835 W. 205th Street
Torrance, CA 90501
Tel: 310-618-8889 X118
rbeauvil@emaxlabs.com

EMAX is interested in your feedback; please provide your comments to: customerservice@emaxlabs.com

EMAX Holidays Schedule:

From: Crozier, Carrie [mailto:Carrie.Crozier@parsons.com]
Sent: Tuesday, April 17, 2018 8:39 AM
To: Richard Beauvil
Subject: Re: 18D132 SAMPLING AT 1500 I STREET

We were able to get jars for samples 1-5, for sample 21, just run VOCs.

Sent from my iPhone

On Apr 16, 2018, at 7:00 PM, Richard Beauvil <RBeauvil@emaxlabs.com> wrote:

> Hi Carrie,
>
> I just got the COC of the "1500 I street". So we got some issues, please see attached. For the TPH for samples 1-5 and 21, we are missing a jar for TPH-D/M. If you don't need Diesel and motor oil, we still need a jar for the percent moisture so we can report your results on dry weight basis. Also it looks like a lot of the labels do not match the containers with the tests description. Let us know how to proceed. Give me a call if you need to talk to me.
>
> Thank you.
>
> Richard M. Beauvil
> Project Manager/Safety Officer
> 1835 W. 205th Street
> Torrance, CA 90501
> Tel: 310-618-8889 X118
> rbeauvil@emaxlabs.com
>
> ***EMAX*** is interested in your feedback; please provide your comments to: customerservice@emaxlabs.com
>
> ***EMAX Holidays Schedule:***

<18D132.pdf>

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

A total of three (3) water samples were received on 04/17/18 to be analyzed for Volatile Organics by GC/MS in accordance with Method 5030B/8260B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VO05D10B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VO05D10L/VO05D10C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : 05

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	VO05D10B	1	NA	04/23/1815:41	04/23/1815:41	RDQ228	RJQ007	VO05D10	Method Blank
LCS1W	VO05D10L	1	NA	04/23/1814:26	04/23/1814:26	RDQ225	RJQ007	VO05D10	Lab Control Sample (LCS)
LCD1W	VO05D10C	1	NA	04/23/1814:50	04/23/1814:50	RDQ226	RJQ007	VO05D10	LCS Duplicate
TRIP BLANK	D138-05	1	NA	04/23/1819:32	04/23/1819:32	RDQ237	RJQ007	VO05D10	Field Sample
B7	D138-17	1	NA	04/23/1821:40	04/23/1821:40	RDQ242	RJQ007	VO05D10	Field Sample
B14	D138-07	1	NA	04/23/1822:06	04/23/1822:06	RDQ243	RJQ007	VO05D10	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 19:32
Sample ID: TRIP BLANK	Date Analyzed: 04/23/18 19:32
Lab Samp ID: D138-05	Dilution Factor: 1
Lab File ID: RDQ237	Matrix : WATER
Ext Btch ID: VO05D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.3	10.00	103	70-140
4-BROMOFLUOROBENZENE	10.1	10.00	101	70-130
TOLUENE-D8	10.6	10.00	106	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 22:06
Sample ID: B14	Date Analyzed: 04/23/18 22:06
Lab Samp ID: D138-07	Dilution Factor: 1
Lab File ID: RDQ243	Matrix : WATER
Ext Btch ID: VO05D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	12J	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.29J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.8	10.00	108	70-140
4-BROMOFLUOROBENZENE	9.17	10.00	91.7	70-130
TOLUENE-D8	10.4	10.00	104	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 21:40
Sample ID: B7	Date Analyzed: 04/23/18 21:40
Lab Samp ID: D138-17	Dilution Factor: 1
Lab File ID: RDQ242	Matrix : WATER
Ext Btch ID: VO05D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.6	10.00	106	70-140
4-BROMOFLUOROBENZENE	9.48	10.00	94.8	70-130
TOLUENE-D8	10.2	10.00	102	70-140

QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/23/18
Batch No. : 18D138	Date Extracted: 04/23/18 15:41
Sample ID: MBLK1W	Date Analyzed: 04/23/18 15:41
Lab Samp ID: V005D10B	Dilution Factor: 1
Lab File ID: RDQ228	Matrix : WATER
Ext Btch ID: V005D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.2	10.00	102	70-140
4-BROMOFLUOROBENZENE	9.80	10.00	98.0	70-130
TOLUENE-D8	10.4	10.00	104	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D138
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VO05D10B	VO05D10L	VO05D10C		
LAB FILE ID:	RDQ228	RDQ225	RDQ226		
DATE EXTRACTED:	04/23/1815:41	04/23/1814:26	04/23/1814:50	DATE COLLECTED:	NA
DATE ANALYZED:	04/23/1815:41	04/23/1814:26	04/23/1814:50	DATE RECEIVED:	04/23/18
PREP. BATCH:	VO05D10	VO05D10	VO05D10		
CALIB. REF:	RJQ007	RJQ007	RJQ007		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	9.56	96	10.0	9.31	93	3	60-130	20
Benzene	ND	10.0	9.52	95	10.0	9.28	93	3	70-130	20
Chlorobenzene	ND	10.0	9.33	93	10.0	9.34	93	0	70-120	20
Toluene	ND	10.0	9.60	96	10.0	9.29	93	3	70-130	20
Trichloroethene	ND	10.0	9.00	90	10.0	8.78	88	2	70-130	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.5	105	10.0	10.3	103	70-140
4-Bromofluorobenzene	10.0	9.32	93	10.0	9.40	94	70-130
Toluene-d8	10.0	10.4	104	10.0	10.1	101	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

A total of seven (7) soil samples were received on 04/17/18 to be analyzed for Volatile Organics by GC/MS in accordance with Method 5035A/8260B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, two (2) method blanks were analyzed. VS03D09B and VS03D10B result were compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, two (2) sets of LCS/LCD were analyzed. VS03D09L/VS03D09C and VS03D10L/VS03D10C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. For this SDG, all surrogate recoveries were within QC limits except for 4-Bromofluorobenzene in D138-16, -16R and -15R. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.
One internal standard was out of QC criteria in samples 18D138-15 and -16 initial analysis confirmed by reanalysis. Report both runs.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : 03

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	VS03D09B	1	NA	04/18/1812:47	04/18/1812:47	RDB188	RDB172	VS03D09	Method Blank
LCS1S	VS03D09L	1	NA	04/18/1811:24	04/18/1811:24	RDB185	RDB172	VS03D09	Lab Control Sample (LCS)
LCD1S	VS03D09C	1	NA	04/18/1811:52	04/18/1811:52	RDB186	RDB172	VS03D09	LCS Duplicate
B7-2	D138-09	1.04	11.0	04/18/1813:15	04/18/1813:15	RDB189	RDB172	VS03D09	Field Sample
B15-10	D138-10	0.91	12.9	04/18/1813:43	04/18/1813:43	RDB190	RDB172	VS03D09	Field Sample
B9-5	D138-11	0.77	14.1	04/18/1814:11	04/18/1814:11	RDB191	RDB172	VS03D09	Field Sample
B9-10	D138-12	0.81	18.5	04/18/1814:38	04/18/1814:38	RDB192	RDB172	VS03D09	Field Sample
B10-2	D138-14	0.94	2.4	04/18/1815:06	04/18/1815:06	RDB193	RDB172	VS03D09	Field Sample
B10-5	D138-15	0.98	4.6	04/18/1815:34	04/18/1815:34	RDB194	RDB172	VS03D09	Field Sample
B10-10	D138-16	0.9	16.8	04/18/1816:01	04/18/1816:01	RDB195	RDB172	VS03D09	Field Sample
MBLK2S	VS03D10B	1	NA	04/19/1812:37	04/19/1812:37	RDB203	RDB172	VS03D10	Method Blank
LCS2S	VS03D10L	1	NA	04/19/1811:13	04/19/1811:13	RDB200	RDB172	VS03D10	Lab Control Sample (LCS)
LCD2S	VS03D10C	1	NA	04/19/1811:41	04/19/1811:41	RDB201	RDB172	VS03D10	LCS Duplicate
B10-5RE	D138-15R	0.98	4.6	04/19/1813:06	04/19/1813:06	RDB204	RDB172	VS03D10	Field Sample
B10-10RE	D138-16R	1.01	16.8	04/19/1814:01	04/19/1814:01	RDB206	RDB172	VS03D10	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/18/18 13:15
Sample ID: B7-2	Date Analyzed: 04/18/18 13:15
Lab Samp ID: D138-09	Dilution Factor: 1.04
Lab File ID: RDB189	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : 11.0
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.8	1.2
1,1,1-TRICHLOROETHANE	ND	5.8	1.2
1,1,2,2-TETRACHLOROETHANE	ND	5.8	1.2
1,1,2-TRICHLOROETHANE	ND	5.8	1.2
1,1-DICHLOROETHANE	ND	5.8	1.2
1,1-DICHLOROETHENE	ND	5.8	1.2
1,1-DICHLOROPROPENE	ND	5.8	1.2
1,2,3-TRICHLOROBENZENE	ND	5.8	2.3
1,2,3-TRICHLOROPROPANE	ND	5.8	2.3
1,2,4-TRICHLOROBENZENE	ND	5.8	2.3
1,2,4-TRIMETHYLBENZENE	ND	5.8	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.8	2.3
1,2-DIBROMOETHANE	ND	5.8	1.2
1,2-DICHLOROBENZENE	ND	5.8	1.2
1,2-DICHLOROETHANE	ND	5.8	1.2
1,2-DICHLOROPROPANE	ND	5.8	1.2
1,3,5-TRIMETHYLBENZENE	ND	5.8	1.2
1,3-DICHLOROBENZENE	ND	5.8	1.2
1,3-DICHLOROPROPANE	ND	5.8	1.2
1,4-DICHLOROBENZENE	ND	5.8	1.2
2,2-DICHLOROPROPANE	ND	5.8	2.3
2-BUTANONE	8.2J	12	5.8
2-CHLOROTOLUENE	ND	5.8	1.2
2-HEXANONE	ND	12	5.8
4-CHLOROTOLUENE	ND	5.8	1.2
ACETONE	61	12	5.8
BENZENE	ND	5.8	1.2
BROMOBENZENE	ND	5.8	1.2
BROMOCHLOROMETHANE	ND	5.8	1.2
BROMODICHLOROMETHANE	ND	5.8	1.2
BROMOFORM	ND	5.8	2.3
BROMOMETHANE	ND	5.8	2.3
CARBON DISULFIDE	ND	5.8	1.2
CARBON TETRACHLORIDE	ND	5.8	1.2
CHLOROBENZENE	ND	5.8	1.2
CHLOROETHANE	ND	5.8	2.3
CHLOROFORM	ND	5.8	1.2
CHLOROMETHANE	ND	5.8	2.3
CIS-1,2-DICHLOROETHENE	ND	5.8	1.2
CIS-1,3-DICHLOROPROPENE	ND	5.8	1.2
DIBROMOCHLOROMETHANE	ND	5.8	1.2
DICHLORODIFLUOROMETHANE	ND	5.8	2.3
ETHYLBENZENE	ND	5.8	1.2
ISOPROPYL BENZENE	ND	5.8	1.2
M,P-XYLENES	ND	12	2.3
MIBK	ND	12	5.8
METHYLENE CHLORIDE	ND	5.8	2.3
MTBE	ND	5.8	1.2
NAPHTHALENE	ND	5.8	2.3
N-BUTYLBENZENE	ND	5.8	1.2
N-PROPYLBENZENE	ND	5.8	1.2
O-XYLENE	ND	5.8	1.2
P-ISOPROPYLTOLUENE	ND	5.8	1.2
SEC-BUTYLBENZENE	ND	5.8	1.2
STYRENE	ND	5.8	1.2
TERT-BUTYLBENZENE	ND	5.8	1.2
TETRACHLOROETHENE	ND	5.8	1.2
TOLUENE	ND	5.8	1.2
TRANS-1,2-DICHLOROETHENE	ND	5.8	1.2
TRANS-1,3-DICHLOROPROPENE	ND	5.8	1.2
TRICHLOROETHENE	ND	5.8	1.2
TRICHLOROFLUOROMETHANE	ND	5.8	2.3
VINYL CHLORIDE	ND	5.8	2.3
VINYL ACETATE	ND	5.8	2.3
FREON113	ND	5.8	2.3
DIBROMOMETHANE	ND	5.8	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	52.8	58.43	90.4	60-160
4-BROMOFLUOROBENZENE	63.2	58.43	108	70-150
TOLUENE-D8	58.4	58.43	100	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/18/18 13:43
Sample ID: B15-10	Date Analyzed: 04/18/18 13:43
Lab Samp ID: D138-10	Dilution Factor: 0.91
Lab File ID: RDB190	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : 12.9
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.2	1.0
1,1,1-TRICHLOROETHANE	ND	5.2	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.2	1.0
1,1,2-TRICHLOROETHANE	ND	5.2	1.0
1,1-DICHLOROETHANE	ND	5.2	1.0
1,1-DICHLOROETHENE	ND	5.2	1.0
1,1-DICHLOROPROPENE	ND	5.2	1.0
1,2,3-TRICHLOROBENZENE	ND	5.2	2.1
1,2,3-TRICHLOROPROPANE	ND	5.2	2.1
1,2,4-TRICHLOROBENZENE	ND	5.2	2.1
1,2,4-TRIMETHYLBENZENE	ND	5.2	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.2	2.1
1,2-DIBROMOETHANE	ND	5.2	1.0
1,2-DICHLOROBENZENE	ND	5.2	1.0
1,2-DICHLOROETHANE	ND	5.2	1.0
1,2-DICHLOROPROPANE	ND	5.2	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.2	1.0
1,3-DICHLOROBENZENE	ND	5.2	1.0
1,3-DICHLOROPROPANE	ND	5.2	1.0
1,4-DICHLOROBENZENE	ND	5.2	1.0
2,2-DICHLOROPROPANE	ND	5.2	2.1
2-BUTANONE	ND	10	5.2
2-CHLOROTOLUENE	ND	5.2	1.0
2-HEXANONE	ND	10	5.2
4-CHLOROTOLUENE	ND	5.2	1.0
ACETONE	11	10	5.2
BENZENE	ND	5.2	1.0
BROMOBENZENE	ND	5.2	1.0
BROMOCHLOROMETHANE	ND	5.2	1.0
BROMODICHLOROMETHANE	ND	5.2	1.0
BROMOFORM	ND	5.2	2.1
BROMOMETHANE	ND	5.2	2.1
CARBON DISULFIDE	ND	5.2	1.0
CARBON TETRACHLORIDE	ND	5.2	1.0
CHLOROBENZENE	ND	5.2	1.0
CHLOROETHANE	ND	5.2	2.1
CHLOROFORM	ND	5.2	1.0
CHLOROMETHANE	ND	5.2	2.1
CIS-1,2-DICHLOROETHENE	ND	5.2	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.2	1.0
DIBROMOCHLOROMETHANE	ND	5.2	1.0
DICHLORODIFLUOROMETHANE	ND	5.2	2.1
ETHYLBENZENE	ND	5.2	1.0
ISOPROPYL BENZENE	ND	5.2	1.0
M,P-XYLENES	ND	10	2.1
MIBK	ND	10	5.2
METHYLENE CHLORIDE	ND	5.2	2.1
MTBE	ND	5.2	1.0
NAPHTHALENE	ND	5.2	2.1
N-BUTYLBENZENE	ND	5.2	1.0
N-PROPYLBENZENE	ND	5.2	1.0
O-XYLENE	ND	5.2	1.0
P-ISOPROPYLTOLUENE	ND	5.2	1.0
SEC-BUTYLBENZENE	ND	5.2	1.0
STYRENE	ND	5.2	1.0
TERT-BUTYLBENZENE	ND	5.2	1.0
TETRACHLOROETHENE	ND	5.2	1.0
TOLUENE	ND	5.2	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.2	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.2	1.0
TRICHLOROETHENE	ND	5.2	1.0
TRICHLOROFLUOROMETHANE	ND	5.2	2.1
VINYL CHLORIDE	ND	5.2	2.1
VINYL ACETATE	ND	5.2	2.1
FREON113	ND	5.2	2.1
DIBROMOMETHANE	ND	5.2	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	47.7	52.24	91.3	60-160
4-BROMOFLUOROBENZENE	57.3	52.24	110	70-150
TOLUENE-D8	51.0	52.24	97.7	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/18/18 14:11
Sample ID: B9-5	Date Analyzed: 04/18/18 14:11
Lab Samp ID: D138-11	Dilution Factor: 0.77
Lab File ID: RDB191	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : 14.1
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.5	0.90
1,1,1-TRICHLOROETHANE	ND	4.5	0.90
1,1,2,2-TETRACHLOROETHANE	ND	4.5	0.90
1,1,2-TRICHLOROETHANE	ND	4.5	0.90
1,1-DICHLOROETHANE	ND	4.5	0.90
1,1-DICHLOROETHENE	ND	4.5	0.90
1,1-DICHLOROPROPENE	ND	4.5	0.90
1,2,3-TRICHLOROBENZENE	ND	4.5	1.8
1,2,3-TRICHLOROPROPANE	ND	4.5	1.8
1,2,4-TRICHLOROBENZENE	ND	4.5	1.8
1,2,4-TRIMETHYLBENZENE	ND	4.5	0.90
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.5	1.8
1,2-DIBROMOETHANE	ND	4.5	0.90
1,2-DICHLOROBENZENE	ND	4.5	0.90
1,2-DICHLOROETHANE	ND	4.5	0.90
1,2-DICHLOROPROPANE	ND	4.5	0.90
1,3,5-TRIMETHYLBENZENE	ND	4.5	0.90
1,3-DICHLOROBENZENE	ND	4.5	0.90
1,3-DICHLOROPROPANE	ND	4.5	0.90
1,4-DICHLOROBENZENE	ND	4.5	0.90
2,2-DICHLOROPROPANE	ND	4.5	1.8
2-BUTANONE	ND	9.0	4.5
2-CHLOROTOLUENE	ND	4.5	0.90
2-HEXANONE	ND	9.0	4.5
4-CHLOROTOLUENE	ND	4.5	0.90
ACETONE	17	9.0	4.5
BENZENE	ND	4.5	0.90
BROMOBENZENE	ND	4.5	0.90
BROMOCHLOROMETHANE	ND	4.5	0.90
BROMODICHLOROMETHANE	ND	4.5	0.90
BROMOFORM	ND	4.5	1.8
BROMOMETHANE	ND	4.5	1.8
CARBON DISULFIDE	ND	4.5	0.90
CARBON TETRACHLORIDE	ND	4.5	0.90
CHLOROBENZENE	ND	4.5	0.90
CHLOROETHANE	ND	4.5	1.8
CHLOROFORM	ND	4.5	0.90
CHLOROMETHANE	ND	4.5	1.8
CIS-1,2-DICHLOROETHENE	ND	4.5	0.90
CIS-1,3-DICHLOROPROPENE	ND	4.5	0.90
DIBROMOCHLOROMETHANE	ND	4.5	0.90
DICHLORODIFLUOROMETHANE	ND	4.5	1.8
ETHYLBENZENE	ND	4.5	0.90
ISOPROPYL BENZENE	ND	4.5	0.90
M,P-XYLENES	ND	9.0	1.8
MIBK	ND	9.0	4.5
METHYLENE CHLORIDE	ND	4.5	1.8
MTBE	ND	4.5	0.90
NAPHTHALENE	ND	4.5	1.8
N-BUTYLBENZENE	ND	4.5	0.90
N-PROPYLBENZENE	ND	4.5	0.90
O-XYLENE	ND	4.5	0.90
P-ISOPROPYLTOLUENE	ND	4.5	0.90
SEC-BUTYLBENZENE	ND	4.5	0.90
STYRENE	ND	4.5	0.90
TERT-BUTYLBENZENE	ND	4.5	0.90
TETRACHLOROETHENE	ND	4.5	0.90
TOLUENE	ND	4.5	0.90
TRANS-1,2-DICHLOROETHENE	ND	4.5	0.90
TRANS-1,3-DICHLOROPROPENE	ND	4.5	0.90
TRICHLOROETHENE	ND	4.5	0.90
TRICHLOROFLUOROMETHANE	ND	4.5	1.8
VINYL CHLORIDE	ND	4.5	1.8
VINYL ACETATE	ND	4.5	1.8
FREON113	ND	4.5	1.8
DIBROMOMETHANE	ND	4.5	0.90

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	45.1	44.82	101	60-160
4-BROMOFLUOROBENZENE	49.3	44.82	110	70-150
TOLUENE-D8	42.5	44.82	94.8	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/18/18 14:38
Sample ID: B9-10	Date Analyzed: 04/18/18 14:38
Lab Samp ID: D138-12	Dilution Factor: 0.81
Lab File ID: RDB192	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : 18.5
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	0.99
1,1,1-TRICHLOROETHANE	ND	5.0	0.99
1,1,2,2-TETRACHLOROETHANE	ND	5.0	0.99
1,1,2-TRICHLOROETHANE	ND	5.0	0.99
1,1-DICHLOROETHANE	ND	5.0	0.99
1,1-DICHLOROETHENE	ND	5.0	0.99
1,1-DICHLOROPROPENE	ND	5.0	0.99
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	0.99
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	0.99
1,2-DICHLOROBENZENE	ND	5.0	0.99
1,2-DICHLOROETHANE	ND	5.0	0.99
1,2-DICHLOROPROPANE	ND	5.0	0.99
1,3,5-TRIMETHYLBENZENE	ND	5.0	0.99
1,3-DICHLOROBENZENE	ND	5.0	0.99
1,3-DICHLOROPROPANE	ND	5.0	0.99
1,4-DICHLOROBENZENE	ND	5.0	0.99
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	9.9	5.0
2-CHLOROTOLUENE	ND	5.0	0.99
2-HEXANONE	ND	9.9	5.0
4-CHLOROTOLUENE	ND	5.0	0.99
ACETONE	7.8J	9.9	5.0
BENZENE	ND	5.0	0.99
BROMOBENZENE	ND	5.0	0.99
BROMOCHLOROMETHANE	ND	5.0	0.99
BROMODICHLOROMETHANE	ND	5.0	0.99
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	0.99
CARBON TETRACHLORIDE	ND	5.0	0.99
CHLOROBENZENE	ND	5.0	0.99
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	0.99
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	0.99
CIS-1,3-DICHLOROPROPENE	ND	5.0	0.99
DIBROMOCHLOROMETHANE	ND	5.0	0.99
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	0.99
ISOPROPYL BENZENE	ND	5.0	0.99
M,P-XYLENES	ND	9.9	2.0
MIBK	ND	9.9	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	0.99
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	0.99
N-PROPYLBENZENE	ND	5.0	0.99
O-XYLENE	ND	5.0	0.99
P-ISOPROPYLTOLUENE	ND	5.0	0.99
SEC-BUTYLBENZENE	ND	5.0	0.99
STYRENE	ND	5.0	0.99
TERT-BUTYLBENZENE	ND	5.0	0.99
TETRACHLOROETHENE	ND	5.0	0.99
TOLUENE	ND	5.0	0.99
TRANS-1,2-DICHLOROETHENE	ND	5.0	0.99
TRANS-1,3-DICHLOROPROPENE	ND	5.0	0.99
TRICHLOROETHENE	ND	5.0	0.99
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	0.99

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	47.0	49.69	94.7	60-160
4-BROMOFLUOROBENZENE	54.8	49.69	110	70-150
TOLUENE-D8	49.6	49.69	99.8	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/18/18 15:06
Sample ID: B10-2	Date Analyzed: 04/18/18 15:06
Lab Samp ID: D138-14	Dilution Factor: 0.94
Lab File ID: RDB193	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : 2.4
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.8	0.96
1,1,1-TRICHLOROETHANE	ND	4.8	0.96
1,1,2,2-TETRACHLOROETHANE	ND	4.8	0.96
1,1,2-TRICHLOROETHANE	ND	4.8	0.96
1,1-DICHLOROETHANE	ND	4.8	0.96
1,1-DICHLOROETHENE	ND	4.8	0.96
1,1-DICHLOROPROPENE	ND	4.8	0.96
1,2,3-TRICHLOROBENZENE	ND	4.8	1.9
1,2,3-TRICHLOROPROPANE	ND	4.8	1.9
1,2,4-TRICHLOROBENZENE	ND	4.8	1.9
1,2,4-TRIMETHYLBENZENE	2.4J	4.8	0.96
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.8	1.9
1,2-DIBROMOETHANE	ND	4.8	0.96
1,2-DICHLOROBENZENE	ND	4.8	0.96
1,2-DICHLOROETHANE	ND	4.8	0.96
1,2-DICHLOROPROPANE	ND	4.8	0.96
1,3,5-TRIMETHYLBENZENE	ND	4.8	0.96
1,3-DICHLOROBENZENE	ND	4.8	0.96
1,3-DICHLOROPROPANE	ND	4.8	0.96
1,4-DICHLOROBENZENE	ND	4.8	0.96
2,2-DICHLOROPROPANE	ND	4.8	1.9
2-BUTANONE	6.0J	9.6	4.8
2-CHLOROTOLUENE	ND	4.8	0.96
2-HEXANONE	ND	9.6	4.8
4-CHLOROTOLUENE	ND	4.8	0.96
ACETONE	65	9.6	4.8
BENZENE	2.2J	4.8	0.96
BROMOBENZENE	ND	4.8	0.96
BROMOCHLOROMETHANE	ND	4.8	0.96
BROMODICHLOROMETHANE	ND	4.8	0.96
BROMOFORM	ND	4.8	1.9
BROMOMETHANE	ND	4.8	1.9
CARBON DISULFIDE	2.0J	4.8	0.96
CARBON TETRACHLORIDE	ND	4.8	0.96
CHLOROBENZENE	ND	4.8	0.96
CHLOROETHANE	ND	4.8	1.9
CHLOROFORM	ND	4.8	0.96
CHLOROMETHANE	ND	4.8	1.9
CIS-1,2-DICHLOROETHENE	ND	4.8	0.96
CIS-1,3-DICHLOROPROPENE	ND	4.8	0.96
DIBROMOCHLOROMETHANE	ND	4.8	0.96
DICHLORODIFLUOROMETHANE	ND	4.8	1.9
ETHYLBENZENE	1.1J	4.8	0.96
ISOPROPYL BENZENE	ND	4.8	0.96
M,P-XYLENES	5.2J	9.6	1.9
MIBK	ND	9.6	4.8
METHYLENE CHLORIDE	ND	4.8	1.9
MTBE	ND	4.8	0.96
NAPHTHALENE	ND	4.8	1.9
N-BUTYLBENZENE	ND	4.8	0.96
N-PROPYLBENZENE	ND	4.8	0.96
O-XYLENE	2.0J	4.8	0.96
P-ISOPROPYLTOLUENE	ND	4.8	0.96
SEC-BUTYLBENZENE	ND	4.8	0.96
STYRENE	ND	4.8	0.96
TERT-BUTYLBENZENE	ND	4.8	0.96
TETRACHLOROETHENE	ND	4.8	0.96
TOLUENE	3.9J	4.8	0.96
TRANS-1,2-DICHLOROETHENE	ND	4.8	0.96
TRANS-1,3-DICHLOROPROPENE	ND	4.8	0.96
TRICHLOROETHENE	ND	4.8	0.96
TRICHLOROFLUOROMETHANE	ND	4.8	1.9
VINYL CHLORIDE	ND	4.8	1.9
VINYL ACETATE	ND	4.8	1.9
FREON113	ND	4.8	1.9
DIBROMOMETHANE	ND	4.8	0.96

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	47.5	48.16	98.7	60-160
4-BROMOFLUOROBENZENE	66.3	48.16	138	70-150
TOLUENE-D8	48.8	48.16	101	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/18/18 15:34
Sample ID: B10-5	Date Analyzed: 04/18/18 15:34
Lab Samp ID: D138-15	Dilution Factor: 0.98
Lab File ID: RDB194	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : 4.6
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.1	1.0
1,1,1-TRICHLOROETHANE	ND	5.1	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.1	1.0
1,1,2-TRICHLOROETHANE	ND	5.1	1.0
1,1-DICHLOROETHANE	ND	5.1	1.0
1,1-DICHLOROETHENE	ND	5.1	1.0
1,1-DICHLOROPROPENE	ND	5.1	1.0
1,2,3-TRICHLOROBENZENE	ND	5.1	2.1
1,2,3-TRICHLOROPROPANE	ND	5.1	2.1
1,2,4-TRICHLOROBENZENE	ND	5.1	2.1
1,2,4-TRIMETHYLBENZENE	ND	5.1	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.1	2.1
1,2-DIBROMOETHANE	ND	5.1	1.0
1,2-DICHLOROBENZENE	ND	5.1	1.0
1,2-DICHLOROETHANE	ND	5.1	1.0
1,2-DICHLOROPROPANE	ND	5.1	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.1	1.0
1,3-DICHLOROBENZENE	ND	5.1	1.0
1,3-DICHLOROPROPANE	ND	5.1	1.0
1,4-DICHLOROBENZENE	ND	5.1	1.0
2,2-DICHLOROPROPANE	ND	5.1	2.1
2-BUTANONE	ND	10	5.1
2-CHLOROTOLUENE	ND	5.1	1.0
2-HEXANONE	ND	10	5.1
4-CHLOROTOLUENE	ND	5.1	1.0
ACETONE	35	10	5.1
BENZENE	1.6J	5.1	1.0
BROMOBENZENE	ND	5.1	1.0
BROMOCHLOROMETHANE	ND	5.1	1.0
BROMODICHLOROMETHANE	ND	5.1	1.0
BROMOFORM	ND	5.1	2.1
BROMOMETHANE	ND	5.1	2.1
CARBON DISULFIDE	1.3J	5.1	1.0
CARBON TETRACHLORIDE	ND	5.1	1.0
CHLOROBENZENE	ND	5.1	1.0
CHLOROETHANE	ND	5.1	2.1
CHLOROFORM	ND	5.1	1.0
CHLOROMETHANE	ND	5.1	2.1
CIS-1,2-DICHLOROETHENE	ND	5.1	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.1	1.0
DIBROMOCHLOROMETHANE	ND	5.1	1.0
DICHLORODIFLUOROMETHANE	ND	5.1	2.1
ETHYLBENZENE	ND	5.1	1.0
ISOPROPYL BENZENE	ND	5.1	1.0
M,P-XYLENES	ND	10	2.1
MIBK	ND	10	5.1
METHYLENE CHLORIDE	ND	5.1	2.1
MTBE	ND	5.1	1.0
NAPHTHALENE	ND	5.1	2.1
N-BUTYLBENZENE	ND	5.1	1.0
N-PROPYLBENZENE	ND	5.1	1.0
O-XYLENE	ND	5.1	1.0
P-ISOPROPYLTOLUENE	ND	5.1	1.0
SEC-BUTYLBENZENE	ND	5.1	1.0
STYRENE	ND	5.1	1.0
TERT-BUTYLBENZENE	ND	5.1	1.0
TETRACHLOROETHENE	ND	5.1	1.0
TOLUENE	1.8J	5.1	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.1	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.1	1.0
TRICHLOROETHENE	ND	5.1	1.0
TRICHLOROFLUOROMETHANE	ND	5.1	2.1
VINYL CHLORIDE	ND	5.1	2.1
VINYL ACETATE	ND	5.1	2.1
FREON113	ND	5.1	2.1
DIBROMOMETHANE	ND	5.1	1.0

SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	48.4	51.36	94.3	60-160
4-BROMOFLUOROBENZENE	76.5	51.36	149	70-150
TOLUENE-D8	57.7	51.36	112	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/19/18 13:06
Sample ID: B10-5RE	Date Analyzed: 04/19/18 13:06
Lab Samp ID: D138-15R	Dilution Factor: 0.98
Lab File ID: RDB204	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 4.6
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.1	1.0
1,1,1-TRICHLOROETHANE	ND	5.1	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.1	1.0
1,1,2-TRICHLOROETHANE	ND	5.1	1.0
1,1-DICHLOROETHANE	ND	5.1	1.0
1,1-DICHLOROETHENE	ND	5.1	1.0
1,1-DICHLOROPROPENE	ND	5.1	1.0
1,2,3-TRICHLOROBENZENE	ND	5.1	2.1
1,2,3-TRICHLOROPROPANE	ND	5.1	2.1
1,2,4-TRICHLOROBENZENE	ND	5.1	2.1
1,2,4-TRIMETHYLBENZENE	1.1J	5.1	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.1	2.1
1,2-DIBROMOETHANE	ND	5.1	1.0
1,2-DICHLOROBENZENE	ND	5.1	1.0
1,2-DICHLOROETHANE	ND	5.1	1.0
1,2-DICHLOROPROPANE	ND	5.1	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.1	1.0
1,3-DICHLOROBENZENE	ND	5.1	1.0
1,3-DICHLOROPROPANE	ND	5.1	1.0
1,4-DICHLOROBENZENE	ND	5.1	1.0
2,2-DICHLOROPROPANE	ND	5.1	2.1
2-BUTANONE	5.5J	10	5.1
2-CHLOROTOLUENE	ND	5.1	1.0
2-HEXANONE	ND	10	5.1
4-CHLOROTOLUENE	ND	5.1	1.0
ACETONE	47	10	5.1
BENZENE	2.2J	5.1	1.0
BROMOBENZENE	ND	5.1	1.0
BROMOCHLOROMETHANE	ND	5.1	1.0
BROMODICHLOROMETHANE	ND	5.1	1.0
BROMOFORM	ND	5.1	2.1
BROMOMETHANE	ND	5.1	2.1
CARBON DISULFIDE	1.9J	5.1	1.0
CARBON TETRACHLORIDE	ND	5.1	1.0
CHLOROBENZENE	ND	5.1	1.0
CHLOROETHANE	ND	5.1	2.1
CHLOROFORM	ND	5.1	1.0
CHLOROMETHANE	ND	5.1	2.1
CIS-1,2-DICHLOROETHENE	ND	5.1	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.1	1.0
DIBROMOCHLOROMETHANE	ND	5.1	1.0
DICHLORODIFLUOROMETHANE	ND	5.1	2.1
ETHYLBENZENE	ND	5.1	1.0
ISOPROPYL BENZENE	ND	5.1	1.0
M,P-XYLENES	2.8J	10	2.1
MIBK	ND	10	5.1
METHYLENE CHLORIDE	ND	5.1	2.1
MTBE	ND	5.1	1.0
NAPHTHALENE	ND	5.1	2.1
N-BUTYLBENZENE	ND	5.1	1.0
N-PROPYLBENZENE	ND	5.1	1.0
O-XYLENE	ND	5.1	1.0
P-ISOPROPYLTOLUENE	ND	5.1	1.0
SEC-BUTYLBENZENE	ND	5.1	1.0
STYRENE	ND	5.1	1.0
TERT-BUTYLBENZENE	ND	5.1	1.0
TETRACHLOROETHENE	ND	5.1	1.0
TOLUENE	4.0J	5.1	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.1	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.1	1.0
TRICHLOROETHENE	ND	5.1	1.0
TRICHLOROFLUOROMETHANE	ND	5.1	2.1
VINYL CHLORIDE	ND	5.1	2.1
VINYL ACETATE	ND	5.1	2.1
FREON113	ND	5.1	2.1
DIBROMOMETHANE	ND	5.1	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	47.5	51.36	92.5	60-160
4-BROMOFLUOROBENZENE	86.0	51.36	167*	70-150
TOLUENE-D8	61.5	51.36	120	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/18/18 16:01
Sample ID: B10-10	Date Analyzed: 04/18/18 16:01
Lab Samp ID: D138-16	Dilution Factor: 0.9
Lab File ID: RDB195	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : 16.8
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,1-TRICHLOROETHANE	ND	5.4	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,2-TRICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHENE	ND	5.4	1.1
1,1-DICHLOROPROPENE	ND	5.4	1.1
1,2,3-TRICHLOROBENZENE	ND	5.4	2.2
1,2,3-TRICHLOROPROPANE	ND	5.4	2.2
1,2,4-TRICHLOROBENZENE	ND	5.4	2.2
1,2,4-TRIMETHYLBENZENE	ND	5.4	1.1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.4	2.2
1,2-DIBROMOETHANE	ND	5.4	1.1
1,2-DICHLOROBENZENE	ND	5.4	1.1
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.4	1.1
1,3-DICHLOROBENZENE	ND	5.4	1.1
1,3-DICHLOROPROPANE	ND	5.4	1.1
1,4-DICHLOROBENZENE	ND	5.4	1.1
2,2-DICHLOROPROPANE	ND	5.4	2.2
2-BUTANONE	7.1J	11	5.4
2-CHLOROTOLUENE	ND	5.4	1.1
2-HEXANONE	ND	11	5.4
4-CHLOROTOLUENE	ND	5.4	1.1
ACETONE	84	11	5.4
BENZENE	2.2J	5.4	1.1
BROMOBENZENE	ND	5.4	1.1
BROMOCHLOROMETHANE	ND	5.4	1.1
BROMODICHLOROMETHANE	ND	5.4	1.1
BROMOFORM	ND	5.4	2.2
BROMOMETHANE	ND	5.4	2.2
CARBON DISULFIDE	ND	5.4	1.1
CARBON TETRACHLORIDE	ND	5.4	1.1
CHLOROBENZENE	ND	5.4	1.1
CHLOROETHANE	ND	5.4	2.2
CHLOROFORM	ND	5.4	1.1
CHLOROMETHANE	ND	5.4	2.2
CIS-1,2-DICHLOROETHENE	ND	5.4	1.1
CIS-1,3-DICHLOROPROPENE	ND	5.4	1.1
DIBROMOCHLOROMETHANE	ND	5.4	1.1
DICHLORODIFLUOROMETHANE	ND	5.4	2.2
ETHYLBENZENE	ND	5.4	1.1
ISOPROPYL BENZENE	ND	5.4	1.1
M,P-XYLENES	ND	11	2.2
MIBK	ND	11	5.4
METHYLENE CHLORIDE	ND	5.4	2.2
MTBE	ND	5.4	1.1
NAPHTHALENE	ND	5.4	2.2
N-BUTYLBENZENE	ND	5.4	1.1
N-PROPYLBENZENE	ND	5.4	1.1
O-XYLENE	ND	5.4	1.1
P-ISOPROPYLTOLUENE	ND	5.4	1.1
SEC-BUTYLBENZENE	ND	5.4	1.1
STYRENE	ND	5.4	1.1
TERT-BUTYLBENZENE	ND	5.4	1.1
TETRACHLOROETHENE	ND	5.4	1.1
TOLUENE	2.1J	5.4	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.4	1.1
TRANS-1,3-DICHLOROPROPENE	ND	5.4	1.1
TRICHLOROETHENE	ND	5.4	1.1
TRICHLOROFLUOROMETHANE	ND	5.4	2.2
VINYL CHLORIDE	ND	5.4	2.2
VINYL ACETATE	ND	5.4	2.2
FREON113	ND	5.4	2.2
DIBROMOMETHANE	ND	5.4	1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	53.8	54.09	99.5	60-160
4-BROMOFLUOROBENZENE	86.1	54.09	159*	70-150
TOLUENE-D8	63.6	54.09	118	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/19/18 14:01
Sample ID: B10-10RE	Date Analyzed: 04/19/18 14:01
Lab Samp ID: D138-16R	Dilution Factor: 1.01
Lab File ID: RDB206	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 16.8
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.1	1.2
1,1,1-TRICHLOROETHANE	ND	6.1	1.2
1,1,2,2-TETRACHLOROETHANE	ND	6.1	1.2
1,1,2-TRICHLOROETHANE	ND	6.1	1.2
1,1-DICHLOROETHANE	ND	6.1	1.2
1,1-DICHLOROETHENE	ND	6.1	1.2
1,1-DICHLOROPROPENE	ND	6.1	1.2
1,2,3-TRICHLOROBENZENE	ND	6.1	2.4
1,2,3-TRICHLOROPROPANE	ND	6.1	2.4
1,2,4-TRICHLOROBENZENE	ND	6.1	2.4
1,2,4-TRIMETHYLBENZENE	ND	6.1	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.1	2.4
1,2-DIBROMOETHANE	ND	6.1	1.2
1,2-DICHLOROBENZENE	ND	6.1	1.2
1,2-DICHLOROETHANE	ND	6.1	1.2
1,2-DICHLOROPROPANE	ND	6.1	1.2
1,3,5-TRIMETHYLBENZENE	ND	6.1	1.2
1,3-DICHLOROBENZENE	ND	6.1	1.2
1,3-DICHLOROPROPANE	ND	6.1	1.2
1,4-DICHLOROBENZENE	ND	6.1	1.2
2,2-DICHLOROPROPANE	ND	6.1	2.4
2-BUTANONE	6.2J	12	6.1
2-CHLOROTOLUENE	ND	6.1	1.2
2-HEXANONE	ND	12	6.1
4-CHLOROTOLUENE	ND	6.1	1.2
ACETONE	70	12	6.1
BENZENE	2.2J	6.1	1.2
BROMOBENZENE	ND	6.1	1.2
BROMOCHLOROMETHANE	ND	6.1	1.2
BROMODICHLOROMETHANE	ND	6.1	1.2
BROMOFORM	ND	6.1	2.4
BROMOMETHANE	ND	6.1	2.4
CARBON DISULFIDE	ND	6.1	1.2
CARBON TETRACHLORIDE	ND	6.1	1.2
CHLOROBENZENE	ND	6.1	1.2
CHLOROETHANE	ND	6.1	2.4
CHLOROFORM	ND	6.1	1.2
CHLOROMETHANE	ND	6.1	2.4
CIS-1,2-DICHLOROETHENE	ND	6.1	1.2
CIS-1,3-DICHLOROPROPENE	ND	6.1	1.2
DIBROMOCHLOROMETHANE	ND	6.1	1.2
DICHLORODIFLUOROMETHANE	ND	6.1	2.4
ETHYLBENZENE	ND	6.1	1.2
ISOPROPYL BENZENE	ND	6.1	1.2
M,P-XYLENES	ND	12	2.4
MIBK	ND	12	6.1
METHYLENE CHLORIDE	ND	6.1	2.4
MTBE	ND	6.1	1.2
NAPHTHALENE	ND	6.1	2.4
N-BUTYLBENZENE	ND	6.1	1.2
N-PROPYLBENZENE	ND	6.1	1.2
O-XYLENE	ND	6.1	1.2
P-ISOPROPYLTOLUENE	ND	6.1	1.2
SEC-BUTYLBENZENE	ND	6.1	1.2
STYRENE	ND	6.1	1.2
TERT-BUTYLBENZENE	ND	6.1	1.2
TETRACHLOROETHENE	ND	6.1	1.2
TOLUENE	1.8J	6.1	1.2
TRANS-1,2-DICHLOROETHENE	ND	6.1	1.2
TRANS-1,3-DICHLOROPROPENE	ND	6.1	1.2
TRICHLOROETHENE	ND	6.1	1.2
TRICHLOROFLUOROMETHANE	ND	6.1	2.4
VINYL CHLORIDE	ND	6.1	2.4
VINYL ACETATE	ND	6.1	2.4
FREON113	ND	6.1	2.4
DIBROMOMETHANE	ND	6.1	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	57.2	60.70	94.3	60-160
4-BROMOFLUOROBENZENE	93.4	60.70	154*	70-150
TOLUENE-D8	70.6	60.70	116	70-140

QC SUMMARIES

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D138	Date Extracted: 04/18/18 12:47
Sample ID: MBLK1S	Date Analyzed: 04/18/18 12:47
Lab Samp ID: VS03D09B	Dilution Factor: 1
Lab File ID: RDB188	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : NA
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	1.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-CHLOROTOLUENE	ND	5.0	1.0
2-HEXANONE	ND	10	5.0
4-CHLOROTOLUENE	ND	5.0	1.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENES	ND	10	2.0
MIBK	ND	10	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	1.0
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	45.4	50.00	90.8	70-140
4-BROMOFLUOROBENZENE	51.4	50.00	103	70-130
TOLUENE-D8	49.1	50.00	98.2	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D138
METHOD: SW 5035A/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VS03D09B	VS03D09L	VS03D09C		
LAB FILE ID:	RDB188	RDB185	RDB186		
DATE EXTRACTED:	04/18/1812:47	04/18/1811:24	04/18/1811:52	DATE COLLECTED:	NA
DATE ANALYZED:	04/18/1812:47	04/18/1811:24	04/18/1811:52	DATE RECEIVED:	04/18/18
PREP. BATCH:	VS03D09	VS03D09	VS03D09		
CALIB. REF:	RDB172	RDB172	RDB172		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	50.0	44.8	90	50.0	44.3	89	1	60-130	30
Benzene	ND	50.0	47.9	96	50.0	46.8	94	2	70-130	30
Chlorobenzene	ND	50.0	47.2	94	50.0	46.9	94	1	70-130	30
Toluene	ND	50.0	48.1	96	50.0	48.1	96	0	70-130	50
Trichloroethene	ND	50.0	47.9	96	50.0	47.1	94	2	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	41.8	84	50.0	40.5	81	70-140
4-Bromofluorobenzene	50.0	52.1	104	50.0	51.5	103	70-130
Toluene-d8	50.0	49.1	98	50.0	48.9	98	70-130

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/19/18
Batch No. : 18D138	Date Extracted: 04/19/18 12:37
Sample ID: MBLK2S	Date Analyzed: 04/19/18 12:37
Lab Samp ID: VS03D10B	Dilution Factor: 1
Lab File ID: RDB203	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : NA
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	1.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-CHLOROTOLUENE	ND	5.0	1.0
2-HEXANONE	ND	10	5.0
4-CHLOROTOLUENE	ND	5.0	1.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENES	ND	10	2.0
MIBK	ND	10	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	1.0
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	46.4	50.00	92.8	70-140
4-BROMOFLUOROBENZENE	53.5	50.00	107	70-130
TOLUENE-D8	48.8	50.00	97.6	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D138
METHOD: SW 5035A/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VS03D10B	VS03D10L	VS03D10C		
LAB FILE ID:	RDB203	RDB200	RDB201		
DATE EXTRACTED:	04/19/1812:37	04/19/1811:13	04/19/1811:41	DATE COLLECTED:	NA
DATE ANALYZED:	04/19/1812:37	04/19/1811:13	04/19/1811:41	DATE RECEIVED:	04/19/18
PREP. BATCH:	VS03D10	VS03D10	VS03D10		
CALIB. REF:	RDB172	RDB172	RDB172		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	50.0	44.2	88	50.0	42.6	85	4	60-130	30
Benzene	ND	50.0	46.2	92	50.0	48.0	96	4	70-130	30
Chlorobenzene	ND	50.0	46.7	93	50.0	47.7	95	2	70-130	30
Toluene	ND	50.0	47.8	96	50.0	48.4	97	1	70-130	50
Trichloroethene	ND	50.0	46.9	94	50.0	47.7	95	2	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	43.1	86	50.0	41.7	83	70-140
4-Bromofluorobenzene	50.0	50.1	100	50.0	49.4	99	70-130
Toluene-d8	50.0	48.6	97	50.0	48.2	96	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

A total of two (2) water samples were received on 04/17/18 to be analyzed for Semi Volatile Organics by GC/MS in accordance with Method 3520C/8270C SIM and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. There was one (1) CCV associated with this SDG. Target analytes in CCV(Datafile ID:RDF017) were within calibration acceptance criteria. All calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. SVD034WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. SVD034WL/SVD034WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample D138-07 and -17 were initially extracted at dilution due to limited samples amount received.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D138
Instrument ID : F0

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1W	SVD034WL	1	NA	04/25/1809:50	04/23/1810:15	RDF018	RCF004	18SVD034W	Lab Control Sample (LCS)
LCD1W	SVD034WC	1	NA	04/25/1810:12	04/23/1810:15	RDF019	RCF004	18SVD034W	LCS Duplicate
MBLK1W	SVD034WB	1	NA	04/25/1811:18	04/23/1810:15	RDF022	RCF004	18SVD034W	Method Blank
B14	18D138-07	1	NA	04/25/1811:42	04/23/1810:15	RDF023	RCF004	18SVD034W	Field Sample
B7	18D138-17N	1	NA	04/25/1817:51	04/23/1810:15	RDF039	RCF004	18SVD034W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 14:15
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 10:15
Sample ID : B14	Date Analyzed: 04/25/18 11:42
Lab Samp ID: 18D138-07	Dilution Factor: 1
Lab File ID: RDF023	Matrix: WATER
Ext Btch ID: 18SVD034W	% Moisture: NA
Calib. Ref.: RCF004	Instrument ID: FO

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Acenaphthene	ND	0.040	0.020
Acenaphthylene	ND	0.040	0.020
Anthracene	ND	0.040	0.020
Benzo(a)anthracene	ND	0.040	0.020
Benzo(a)pyrene	ND	0.040	0.020
Benzo(b)fluoranthene	ND	0.040	0.020
Benzo(k)fluoranthene	ND	0.040	0.020
Benzo(g,h,i)perylene	ND	0.040	0.020
Chrysene	ND	0.040	0.020
Dibenzo(a,h)anthracene	ND	0.040	0.020
Fluoranthene	ND	0.040	0.020
Fluorene	ND	0.040	0.020
Indeno(1,2,3-cd)pyrene	ND	0.040	0.020
Naphthalene	ND	0.040	0.020
Phenanthrene	ND	0.040	0.020
Pyrene	ND	0.040	0.020
2-Methylnaphthalene	ND	0.040	0.020
1-Methylnaphthalene	ND	0.040	0.020

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	0.679	1.00	68	50-135

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 500ml	Final Volume : 1ml
Prepared by : JMuert	Analyzed by : KVu

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 13:38
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 10:15
Sample ID : B7	Date Analyzed: 04/25/18 17:51
Lab Samp ID: 18D138-17N	Dilution Factor: 1
Lab File ID: RDF039	Matrix: WATER
Ext Btch ID: 18SVD034W	% Moisture: NA
Calib. Ref.: RCF004	Instrument ID: FO

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Acenaphthene	ND	0.040	0.020
Acenaphthylene	ND	0.040	0.020
Anthracene	ND	0.040	0.020
Benzo(a)anthracene	ND	0.040	0.020
Benzo(a)pyrene	ND	0.040	0.020
Benzo(b)fluoranthene	ND	0.040	0.020
Benzo(k)fluoranthene	ND	0.040	0.020
Benzo(g,h,i)perylene	ND	0.040	0.020
Chrysene	ND	0.040	0.020
Dibenzo(a,h)anthracene	ND	0.040	0.020
Fluoranthene	ND	0.040	0.020
Fluorene	ND	0.040	0.020
Indeno(1,2,3-cd)pyrene	ND	0.040	0.020
Naphthalene	ND	0.040	0.020
Phenanthrene	0.022J	0.040	0.020
Pyrene	ND	0.040	0.020
2-Methylnaphthalene	ND	0.040	0.020
1-Methylnaphthalene	ND	0.040	0.020

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	0.613	1.00	61	50-135

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 500ml	Final Volume : 1ml
Prepared by : JMuert	Analyzed by : KVu

QC SUMMARIES

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/23/18 10:15
Project : POLA-1500 I STREET	Date Received: 04/23/18
Batch No. : 18D138	Date Extracted: 04/23/18 10:15
Sample ID : MBLK1W	Date Analyzed: 04/25/18 11:18
Lab Samp ID: SVD034WB	Dilution Factor: 1
Lab File ID: RDF022	Matrix: WATER
Ext Btch ID: 18SVD034W	% Moisture: NA
Calib. Ref.: RCF004	Instrument ID: FO

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Acenaphthene	ND	0.020	0.010
Acenaphthylene	ND	0.020	0.010
Anthracene	ND	0.020	0.010
Benzo(a)anthracene	ND	0.020	0.010
Benzo(a)pyrene	ND	0.020	0.010
Benzo(b)fluoranthene	ND	0.020	0.010
Benzo(k)fluoranthene	ND	0.020	0.010
Benzo(g,h,i)perylene	ND	0.020	0.010
Chrysene	ND	0.020	0.010
Dibenzo(a,h)anthracene	ND	0.020	0.010
Fluoranthene	ND	0.020	0.010
Fluorene	ND	0.020	0.010
Indeno(1,2,3-cd)pyrene	ND	0.020	0.010
Naphthalene	ND	0.020	0.010
Phenanthrene	ND	0.020	0.010
Pyrene	ND	0.020	0.010
2-Methylnaphthalene	ND	0.020	0.010
1-Methylnaphthalene	ND	0.020	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	0.466	0.500	93	50-135

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml	Final Volume : 1ml
Prepared by : JMuert	Analyzed by : KVu

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : 3520C/8270C SIM

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: SVD034WB	SVD034WL	SVD034WC
LAB FILE ID	: RDF022	RDF018	RDF019
DATE PREPARED	: 04/23/18 10:15	04/23/18 10:15	04/23/18 10:15
DATE ANALYZED	: 04/25/18 11:18	04/25/18 09:50	04/25/18 10:12
PREP BATCH	: 18SVD034W	18SVD034W	18SVD034W
CALIBRATION REF	: RCF004	RCF004	RCF004

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Acenaphthene	ND	0.500	0.268	54	0.500	0.262	52	2	45-110	30
Acenaphthylene	ND	0.500	0.283	57	0.500	0.273	55	4	50-105	30
Anthracene	ND	0.500	0.313	63	0.500	0.299	60	5	55-110	30
Benzo(a)anthracene	ND	0.500	0.341	68	0.500	0.349	70	2	55-110	30
Benzo(a)pyrene	ND	0.500	0.399	80	0.500	0.391	78	2	55-110	30
Benzo(b)fluoranthene	ND	0.500	0.394	79	0.500	0.401	80	2	45-120	30
Benzo(k)fluoranthene	ND	0.500	0.431	86	0.500	0.430	86	0	45-125	30
Benzo(g,h,i)perylene	ND	0.500	0.322	64	0.500	0.331	66	3	40-125	30
Chrysene	ND	0.500	0.376	75	0.500	0.380	76	1	55-110	30
Dibenzo(a,h)anthracene	ND	0.500	0.318	64	0.500	0.334	67	5	40-125	30
Fluoranthene	ND	0.500	0.348	70	0.500	0.347	69	0	55-115	30
Fluorene	ND	0.500	0.299	60	0.500	0.290	58	3	50-110	30
Indeno(1,2,3-cd)pyrene	ND	0.500	0.309	62	0.500	0.320	64	3	45-125	30
Naphthalene	ND	0.500	0.265	53	0.500	0.252	50	5	40-100	30
Phenanthrene	ND	0.500	0.296	59	0.500	0.292	58	1	50-115	30
Pyrene	ND	0.500	0.356	71	0.500	0.357	71	0	50-130	30
2-Methylnaphthalene	ND	0.500	0.282	56	0.500	0.267	53	5	45-105	30
1-Methylnaphthalene	ND	0.500	0.281	56	0.500	0.269	54	4	30-160	30

SURROGATE PARAMETER	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
Terphenyl-d14	0.500	0.346	69	0.500	0.350	70	50-135

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

A total of nine (9) soil samples were received on 04/17/18 to be analyzed for Semi Volatile Organics by GC/MS in accordance with Method 3550B/8270C SIM and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. There were two (2) CCVs associated with this SDG: CCV(Datafile ID:RDJ541) and CCV(Datafile ID:RDJ578). All calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. SVD032SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD (SVD032SL/SVD032SC) was analyzed. All analytes were within LCS limits except for Percent recovery for Indeno(1,2,3-CD)Pyrene was not within LCD QC limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter. The following analytes were manually integrated.

- Phenanthrene and Benzo(b)fluoranthene in sample D138-08
- Phenanthrene, Benzo(b)fluoranthene and Benzo(k)fluoranthene in sample D138-10
- Benzo(b)fluoranthene and Benzo(k)fluoranthene in sample D138-13
- 2-Methylnaphthalene, Benzo(b)fluoranthene and Indeno(1,2,3-cd)pyrene in sample D138-14

Hence, the original chromatograms were retained and corrected chromatograms were initialed and dated. The secondary reviewer concurred with the manual integrations. Samples D138-10, -13, -14 and -15 were initially analyzed at dilution due to dark-colored appearance in extracts(dark brown colored extracts).

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : E4

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
B7-0.5	18D138-08	1	4.7	04/25/1816:09	04/20/1813:55	RDJ564	RBJ167	18SVD032S	Field Sample
B7-2	18D138-09	1	11.0	04/25/1816:28	04/20/1813:55	RDJ565	RBJ167	18SVD032S	Field Sample
B15-10	18D138-10	3	12.9	04/25/1816:47	04/20/1813:55	RDJ566	RBJ167	18SVD032S	Field Sample
B9-5	18D138-11	1	14.1	04/25/1817:06	04/20/1813:55	RDJ567	RBJ167	18SVD032S	Field Sample
B9-10	18D138-12	1	18.5	04/25/1817:25	04/20/1813:55	RDJ568	RBJ167	18SVD032S	Field Sample
B10-0.5	18D138-13	3	1.9	04/25/1817:44	04/20/1813:55	RDJ569	RBJ167	18SVD032S	Field Sample
B10-2	18D138-14	3	2.4	04/25/1818:03	04/20/1813:55	RDJ570	RBJ167	18SVD032S	Field Sample
B10-5	18D138-15	10	4.6	04/25/1818:21	04/20/1813:55	RDJ571	RBJ167	18SVD032S	Field Sample
B10-10	18D138-16	1	16.8	04/25/1818:40	04/20/1813:55	RDJ572	RBJ167	18SVD032S	Field Sample
MBLK1S	SVD032SB	1	NA	04/26/1810:14	04/20/1813:55	RDJ581	RBJ167	18SVD032S	Method Blank
LCS1S	SVD032SL	1	NA	04/26/1810:33	04/20/1813:55	RDJ582	RBJ167	18SVD032S	Lab Control Sample (LCS)
LCD1S	SVD032SC	1	NA	04/26/1810:51	04/20/1813:55	RDJ583	RBJ167	18SVD032S	LCS Duplicate

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 08:39
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/20/18 13:55
Sample ID : B7-0.5	Date Analyzed: 04/25/18 16:09
Lab Samp ID: 18D138-08	Dilution Factor: 1
Lab File ID: RDJ564	Matrix: SOIL
Ext Btch ID: 18SVD032S	% Moisture: 4.7
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.2	2.6
Acenaphthylene	ND	5.2	2.6
Anthracene	ND	5.2	2.6
Benzo(a)anthracene	6.6	5.2	2.6
Benzo(a)pyrene	6.0	5.2	2.6
Benzo(b)fluoranthene	6.9	5.2	2.6
Benzo(k)fluoranthene	ND	5.2	2.6
Benzo(g,h,i)perylene	8.5	5.2	2.6
Chrysene	7.2	5.2	2.6
Dibenzo(a,h)anthracene	ND	5.2	2.6
Fluoranthene	5.9	5.2	2.6
Fluorene	ND	5.2	2.6
Indeno(1,2,3-cd)pyrene	3.4J	5.2	2.6
Naphthalene	ND	5.2	2.6
Phenanthrene	3.6J	5.2	2.6
Pyrene	6.6	5.2	2.6
2-Methylnaphthalene	ND	5.2	2.6
1-Methylnaphthalene	ND	5.2	2.6

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	638	700	91	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 08:44
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/20/18 13:55
Sample ID	: B7-2	Date Analyzed:	04/25/18 16:28
Lab Samp ID:	18D138-09	Dilution Factor:	1
Lab File ID:	RDJ565	Matrix:	SOIL
Ext Btch ID:	18SVD032S	% Moisture:	11.0
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.6	2.8
Acenaphthylene	ND	5.6	2.8
Anthracene	ND	5.6	2.8
Benzo(a)anthracene	ND	5.6	2.8
Benzo(a)pyrene	ND	5.6	2.8
Benzo(b)fluoranthene	ND	5.6	2.8
Benzo(k)fluoranthene	ND	5.6	2.8
Benzo(g,h,i)perylene	ND	5.6	2.8
Chrysene	ND	5.6	2.8
Dibenzo(a,h)anthracene	ND	5.6	2.8
Fluoranthene	ND	5.6	2.8
Fluorene	ND	5.6	2.8
Indeno(1,2,3-cd)pyrene	ND	5.6	2.8
Naphthalene	ND	5.6	2.8
Phenanthrene	ND	5.6	2.8
Pyrene	ND	5.6	2.8
2-Methylnaphthalene	ND	5.6	2.8
1-Methylnaphthalene	ND	5.6	2.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	681	749	91	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30.01g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 11:11
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/20/18 13:55
Sample ID : B15-10	Date Analyzed: 04/25/18 16:47
Lab Samp ID: 18D138-10	Dilution Factor: 3
Lab File ID: RDJ566	Matrix: SOIL
Ext Btch ID: 18SVD032S	% Moisture: 12.9
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	17	8.6
Acenaphthylene	ND	17	8.6
Anthracene	ND	17	8.6
Benzo(a)anthracene	22	17	8.6
Benzo(a)pyrene	19	17	8.6
Benzo(b)fluoranthene	24	17	8.6
Benzo(k)fluoranthene	ND	17	8.6
Benzo(g,h,i)perylene	24	17	8.6
Chrysene	20	17	8.6
Dibenzo(a,h)anthracene	ND	17	8.6
Fluoranthene	26	17	8.6
Fluorene	ND	17	8.6
Indeno(1,2,3-cd)pyrene	10J	17	8.6
Naphthalene	ND	17	8.6
Phenanthrene	14J	17	8.6
Pyrene	24	17	8.6
2-Methylnaphthalene	ND	17	8.6
1-Methylnaphthalene	ND	17	8.6

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	608	765	79	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.01g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 13:10
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/20/18 13:55
Sample ID	: B9-5	Date Analyzed:	04/25/18 17:06
Lab Samp ID:	18D138-11	Dilution Factor:	1
Lab File ID:	RDJ567	Matrix:	SOIL
Ext Btch ID:	18SVD032S	% Moisture:	14.1
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.8	2.9
Acenaphthylene	ND	5.8	2.9
Anthracene	ND	5.8	2.9
Benzo(a)anthracene	ND	5.8	2.9
Benzo(a)pyrene	ND	5.8	2.9
Benzo(b)fluoranthene	ND	5.8	2.9
Benzo(k)fluoranthene	ND	5.8	2.9
Benzo(g,h,i)perylene	ND	5.8	2.9
Chrysene	ND	5.8	2.9
Dibenzo(a,h)anthracene	ND	5.8	2.9
Fluoranthene	ND	5.8	2.9
Fluorene	ND	5.8	2.9
Indeno(1,2,3-cd)pyrene	ND	5.8	2.9
Naphthalene	ND	5.8	2.9
Phenanthrene	ND	5.8	2.9
Pyrene	ND	5.8	2.9
2-Methylnaphthalene	ND	5.8	2.9
1-Methylnaphthalene	ND	5.8	2.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	669	776	86	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30.03g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 13:18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/20/18 13:55
Sample ID : B9-10	Date Analyzed: 04/25/18 17:25
Lab Samp ID: 18D138-12	Dilution Factor: 1
Lab File ID: RDJ568	Matrix: SOIL
Ext Btch ID: 18SVD032S	% Moisture: 18.5
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	6.1	3.1
Acenaphthylene	ND	6.1	3.1
Anthracene	ND	6.1	3.1
Benzo(a)anthracene	ND	6.1	3.1
Benzo(a)pyrene	ND	6.1	3.1
Benzo(b)fluoranthene	ND	6.1	3.1
Benzo(k)fluoranthene	ND	6.1	3.1
Benzo(g,h,i)perylene	ND	6.1	3.1
Chrysene	ND	6.1	3.1
Dibenzo(a,h)anthracene	ND	6.1	3.1
Fluoranthene	ND	6.1	3.1
Fluorene	ND	6.1	3.1
Indeno(1,2,3-cd)pyrene	ND	6.1	3.1
Naphthalene	ND	6.1	3.1
Phenanthrene	ND	6.1	3.1
Pyrene	ND	6.1	3.1
2-Methylnaphthalene	ND	6.1	3.1
1-Methylnaphthalene	ND	6.1	3.1

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	726	818	89	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.03g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 13:42
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/20/18 13:55
Sample ID : B10-0.5	Date Analyzed: 04/25/18 17:44
Lab Samp ID: 18D138-13	Dilution Factor: 3
Lab File ID: RDJ569	Matrix: SOIL
Ext Btch ID: 18SVD032S	% Moisture: 1.9
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	15	7.6
Acenaphthylene	ND	15	7.6
Anthracene	18	15	7.6
Benzo(a)anthracene	68	15	7.6
Benzo(a)pyrene	65	15	7.6
Benzo(b)fluoranthene	77	15	7.6
Benzo(k)fluoranthene	19	15	7.6
Benzo(g,h,i)perylene	63	15	7.6
Chrysene	85	15	7.6
Dibenzo(a,h)anthracene	11J	15	7.6
Fluoranthene	110	15	7.6
Fluorene	ND	15	7.6
Indeno(1,2,3-cd)pyrene	33	15	7.6
Naphthalene	7.7J	15	7.6
Phenanthrene	63	15	7.6
Pyrene	110	15	7.6
2-Methylnaphthalene	8.5J	15	7.6
1-Methylnaphthalene	ND	15	7.6

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	531	680	78	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.01g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 13:45
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/20/18 13:55
Sample ID	: B10-2	Date Analyzed:	04/25/18 18:03
Lab Samp ID:	18D138-14	Dilution Factor:	3
Lab File ID:	RDJ570	Matrix:	SOIL
Ext Btch ID:	18SVD032S	% Moisture:	2.4
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	15	7.7
Acenaphthylene	8.4J	15	7.7
Anthracene	20	15	7.7
Benzo(a)anthracene	28	15	7.7
Benzo(a)pyrene	26	15	7.7
Benzo(b)fluoranthene	27	15	7.7
Benzo(k)fluoranthene	ND	15	7.7
Benzo(g,h,i)perylene	64	15	7.7
Chrysene	30	15	7.7
Dibenzo(a,h)anthracene	ND	15	7.7
Fluoranthene	23	15	7.7
Fluorene	ND	15	7.7
Indeno(1,2,3-cd)pyrene	13J	15	7.7
Naphthalene	ND	15	7.7
Phenanthrene	18	15	7.7
Pyrene	33	15	7.7
2-Methylnaphthalene	ND	15	7.7
1-Methylnaphthalene	ND	15	7.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	522	683	76	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 14:00
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/20/18 13:55
Sample ID	: B10-5	Date Analyzed:	04/25/18 18:21
Lab Samp ID:	18D138-15	Dilution Factor:	10
Lab File ID:	RDJ571	Matrix:	SOIL
Ext Btch ID:	18SVD032S	% Moisture:	4.6
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	52	26
Acenaphthylene	ND	52	26
Anthracene	ND	52	26
Benzo(a)anthracene	28J	52	26
Benzo(a)pyrene	ND	52	26
Benzo(b)fluoranthene	ND	52	26
Benzo(k)fluoranthene	ND	52	26
Benzo(g,h,i)perylene	55	52	26
Chrysene	ND	52	26
Dibenzo(a,h)anthracene	ND	52	26
Fluoranthene	ND	52	26
Fluorene	ND	52	26
Indeno(1,2,3-cd)pyrene	ND	52	26
Naphthalene	ND	52	26
Phenanthrene	ND	52	26
Pyrene	28J	52	26
2-Methylnaphthalene	ND	52	26
1-Methylnaphthalene	ND	52	26

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	335	699	48	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30.03g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 14:05
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/20/18 13:55
Sample ID	: B10-10	Date Analyzed:	04/25/18 18:40
Lab Samp ID:	18D138-16	Dilution Factor:	1
Lab File ID:	RDJ572	Matrix:	SOIL
Ext Btch ID:	18SVD032S	% Moisture:	16.8
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	6.0	3.0
Acenaphthylene	ND	6.0	3.0
Anthracene	ND	6.0	3.0
Benzo(a)anthracene	ND	6.0	3.0
Benzo(a)pyrene	ND	6.0	3.0
Benzo(b)fluoranthene	ND	6.0	3.0
Benzo(k)fluoranthene	ND	6.0	3.0
Benzo(g,h,i)perylene	ND	6.0	3.0
Chrysene	ND	6.0	3.0
Dibenzo(a,h)anthracene	ND	6.0	3.0
Fluoranthene	ND	6.0	3.0
Fluorene	ND	6.0	3.0
Indeno(1,2,3-cd)pyrene	ND	6.0	3.0
Naphthalene	ND	6.0	3.0
Phenanthrene	ND	6.0	3.0
Pyrene	ND	6.0	3.0
2-Methylnaphthalene	ND	6.0	3.0
1-Methylnaphthalene	ND	6.0	3.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	690	801	86	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

QC SUMMARIES

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/20/18 13:55
Project	: POLA-1500 I STREET	Date Received:	04/20/18
Batch No.	: 18D138	Date Extracted:	04/20/18 13:55
Sample ID	: MBLK1S	Date Analyzed:	04/26/18 10:14
Lab Samp ID	: SVD032SB	Dilution Factor:	1
Lab File ID	: RDJ581	Matrix:	SOIL
Ext Btch ID	: 18SVD032S	% Moisture:	NA
Calib. Ref.	: RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.0	2.5
Acenaphthylene	ND	5.0	2.5
Anthracene	ND	5.0	2.5
Benzo(a)anthracene	ND	5.0	2.5
Benzo(a)pyrene	ND	5.0	2.5
Benzo(b)fluoranthene	ND	5.0	2.5
Benzo(k)fluoranthene	ND	5.0	2.5
Benzo(g,h,i)perylene	ND	5.0	2.5
Chrysene	ND	5.0	2.5
Dibenzo(a,h)anthracene	ND	5.0	2.5
Fluoranthene	ND	5.0	2.5
Fluorene	ND	5.0	2.5
Indeno(1,2,3-cd)pyrene	ND	5.0	2.5
Naphthalene	ND	5.0	2.5
Phenanthrene	ND	5.0	2.5
Pyrene	ND	5.0	2.5
2-Methylnaphthalene	ND	5.0	2.5
1-Methylnaphthalene	ND	5.0	2.5

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	689	667	103	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : 3550B/8270C SIM

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: SVD032SB	SVD032SL	SVD032SC
LAB FILE ID	: RDJ581	RDJ582	RDJ583
DATE PREPARED	: 04/20/18 13:55	04/20/18 13:55	04/20/18 13:55
DATE ANALYZED	: 04/26/18 10:14	04/26/18 10:33	04/26/18 10:51
PREP BATCH	: 18SVD032S	18SVD032S	18SVD032S
CALIBRATION REF	: RBJ167	RBJ167	RBJ167

ACCESSION:

PARAMETERS	MBResult (ug/kg)	SpikeAmt (ug/kg)	LCSResult (ug/kg)	LCSRec (%)	SpikeAmt (ug/kg)	LCDResult (ug/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Acenaphthene	ND	1330	1170	88	1330	1210	91	3	45-110	30
Acenaphthylene	ND	1330	1290	97	1330	1330	100	3	45-105	30
Anthracene	ND	1330	1170	88	1330	1200	90	3	55-105	30
Benzo(a)anthracene	ND	1330	1370	103	1330	1420	107	4	50-110	30
Benzo(a)pyrene	ND	1330	1300	98	1330	1340	101	3	50-110	30
Benzo(b)fluoranthene	ND	1330	1270	95	1330	1230	92	3	45-115	30
Benzo(k)fluoranthene	ND	1330	1230	92	1330	1340	101	9	45-125	30
Benzo(g,h,i)perylene	ND	1330	1310	98	1330	1580	119	19	40-125	30
Chrysene	ND	1330	1410	106	1330	1420	107	1	55-110	30
Dibenzo(a,h)anthracene	ND	1330	1350	101	1330	1640	123	19	40-125	30
Fluoranthene	ND	1330	1300	98	1330	1320	99	2	55-115	30
Fluorene	ND	1330	1240	93	1330	1280	96	3	50-110	30
Indeno(1,2,3-cd)pyrene	ND	1330	1360	102	1330	1640	123*	19	40-120	30
Naphthalene	ND	1330	998	75	1330	1000	75	0	40-105	30
Phenanthrene	ND	1330	1110	83	1330	1130	85	2	50-110	30
Pyrene	ND	1330	1290	97	1330	1320	99	2	45-125	30
2-Methylnaphthalene	ND	1330	1020	77	1330	1040	78	2	45-105	30
1-Methylnaphthalene	ND	1330	1040	78	1330	1050	79	1	30-160	30

SURROGATE PARAMETER	SpikeAmt (ug/kg)	LCSResult (ug/kg)	LCSRec (%)	SpikeAmt (ug/kg)	LCDResult (ug/kg)	LCDRec (%)	QCLimit (%)
Terphenyl-d14	667	721	108	667	702	105	30-125

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate
* Out of QC Limit

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two (2) water samples were received on 04/17/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5030B/SW8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VG39D07B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VG39D07L/VG39D07C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

Discrete peak(s) found in samples were not included.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D138
Instrument ID : GCT039

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1W	VG39D07L	1	NA	04/19/1805:02	04/19/1805:02	ED18028A	ED18027A	VG39D0	Lab Control Sample (LCS)
LCD1W	VG39D07C	1	NA	04/19/1805:40	04/19/1805:40	ED18029A	ED18027A	VG39D0	LCS Duplicate
MBLK1W	VG39D07B	1	NA	04/19/1806:19	04/19/1806:19	ED18030A	ED18027A	VG39D0	Method Blank
B14	18D138-07	1	NA	04/19/1807:35	04/19/1807:35	ED18032A	ED18027A	VG39D0	Field Sample
B7	18D138-17	1	NA	04/19/1808:14	04/19/1808:14	ED18033A	ED18027A	VG39D0	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 14:15
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/19/18 07:35
Sample ID	: B14	Date Analyzed:	04/19/18 07:35
Lab Samp ID:	18D138-07	Dilution Factor:	1
Lab File ID:	ED18032A	Matrix:	WATER
Ext Btch ID:	VG39D0	% Moisture:	NA
Calib. Ref.:	ED18027A	Instrument ID:	39

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.10	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0315	0.0400	79	60-140

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.0ML	Final Volume	: 5.0ML
Prepared by	: SCerva	Analyzed by	: SCerva

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 13:38
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/19/18 08:14
Sample ID	: B7	Date Analyzed:	04/19/18 08:14
Lab Samp ID:	18D138-17	Dilution Factor:	1
Lab File ID:	ED18033A	Matrix:	WATER
Ext Btch ID:	VG39D0	% Moisture:	NA
Calib. Ref.:	ED18027A	Instrument ID:	39

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.10	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0309	0.0400	77	60-140

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.0ML	Final Volume	: 5.0ML
Prepared by	: SCerva	Analyzed by	: SCerva

QC SUMMARIES

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/19/18 06:19
Project	: POLA-1500 I STREET	Date Received:	04/19/18
Batch No.	: 18D138	Date Extracted:	04/19/18 06:19
Sample ID	: MBLK1W	Date Analyzed:	04/19/18 06:19
Lab Samp ID:	VG39D07B	Dilution Factor:	1
Lab File ID:	ED18030A	Matrix:	WATER
Ext Btch ID:	VG39D0	% Moisture:	NA
Calib. Ref.:	ED18027A	Instrument ID:	39

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.10	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0326	0.0400	82	60-140

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.0ML	Final Volume	: 5.0ML
Prepared by	: SCerva	Analyzed by	: SCerva

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : SW5030B/SW8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: VG39D07B	VG39D07L	VG39D07C
LAB FILE ID	: ED18030A	ED18028A	ED18029A
DATE PREPARED	: 04/19/18 06:19	04/19/18 05:02	04/19/18 05:40
DATE ANALYZED	: 04/19/18 06:19	04/19/18 05:02	04/19/18 05:40
PREP BATCH	: VG39D0	VG39D0	VG39D0
CALIBRATION REF	: ED18027A	ED18027A	ED18027A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.439	88	0.500	0.448	90	2	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0391	98	0.0400	0.0394	99	70-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of nine (9) soil samples were received on 04/17/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5035A/SW8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. GMD008SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. GMD008SL/GMD008SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Gasoline was within MS QC limits in D138-14M/S. Refer to Matrix QC summary form for details.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : GCT039

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	GMD008SB	1	NA	04/23/1813:58	04/23/1813:58	ED23006A	ED23003A	GMD008S	Method Blank
LCS1S	GMD008SL	1	NA	04/23/1812:40	04/23/1812:40	ED23004A	ED23003A	GMD008S	Lab Control Sample (LCS)
LCD1S	GMD008SC	1	NA	04/23/1813:19	04/23/1813:19	ED23005A	ED23003A	GMD008S	LCS Duplicate
B7-0.5	D138-08I	0.98	4.7	04/23/1814:37	04/23/1814:37	ED23007A	ED23003A	GMD008S	Diluted Sample
B7-2	D138-09I	0.90	11.0	04/23/1815:16	04/23/1815:16	ED23008A	ED23003A	GMD008S	Diluted Sample
B15-10	D138-10I	0.95	12.9	04/23/1815:55	04/23/1815:55	ED23009A	ED23003A	GMD008S	Diluted Sample
B9-5	D138-11I	0.71	14.1	04/23/1816:35	04/23/1816:35	ED23010A	ED23003A	GMD008S	Diluted Sample
B9-10	D138-12I	0.81	18.5	04/23/1817:14	04/23/1817:14	ED23011A	ED23003A	GMD008S	Diluted Sample
B10-0.5	D138-13I	0.94	1.9	04/23/1817:53	04/23/1817:53	ED23012A	ED23003A	GMD008S	Diluted Sample
B10-2	D138-14I	0.88	2.4	04/23/1818:31	04/23/1818:31	ED23013A	ED23003A	GMD008S	Diluted Sample
B10-2MS	D138-14M	0.88	2.4	04/23/1819:10	04/23/1819:10	ED23014A	ED23003A	GMD008S	Matrix Spike Sample (MS)
B10-2MSD	D138-14S	0.88	2.4	04/23/1819:49	04/23/1819:49	ED23015A	ED23003A	GMD008S	MS Duplicate (MSD)
B10-5	D138-15I	0.94	4.6	04/23/1821:06	04/23/1821:06	ED23017A	ED23016A	GMD008S	Diluted Sample
B10-10	D138-16I	0.83	16.8	04/23/1821:44	04/23/1821:44	ED23018A	ED23016A	GMD008S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 14:37
Sample ID: B7-0.5	Date Analyzed: 04/23/18 14:37
Lab Samp ID: D138-08I	Dilution Factor: 0.98
Lab File ID: ED23007A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 4.7
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.51

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.70	2.057	82.7	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 15:16
Sample ID: B7-2	Date Analyzed: 04/23/18 15:16
Lab Samp ID: D138-09I	Dilution Factor: 0.90
Lab File ID: ED23008A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 11.0
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.51

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.57	2.022	77.6	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 15:55
Sample ID: B15-10	Date Analyzed: 04/23/18 15:55
Lab Samp ID: D138-10I	Dilution Factor: 0.95
Lab File ID: ED23009A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 12.9
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.55

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.74	2.181	79.8	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 16:35
Sample ID: B9-5	Date Analyzed: 04/23/18 16:35
Lab Samp ID: D138-11I	Dilution Factor: 0.71
Lab File ID: ED23010A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 14.1
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.83	0.41

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.33	1.653	80.6	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 17:14
Sample ID: B9-10	Date Analyzed: 04/23/18 17:14
Lab Samp ID: D138-12I	Dilution Factor: 0.81
Lab File ID: ED23011A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 18.5
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.99	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.61	1.988	81.2	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 17:53
Sample ID: B10-0.5	Date Analyzed: 04/23/18 17:53
Lab Samp ID: D138-13I	Dilution Factor: 0.94
Lab File ID: ED23012A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 1.9
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.96	0.48

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.58	1.916	82.4	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 18:31
Sample ID: B10-2	Date Analyzed: 04/23/18 18:31
Lab Samp ID: D138-14I	Dilution Factor: 0.88
Lab File ID: ED23013A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 2.4
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.90	0.45

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.50	1.803	83.1	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 21:06
Sample ID:	B10-5	Date Analyzed:	04/23/18 21:06
Lab Samp ID:	D138-15I	Dilution Factor:	0.94
Lab File ID:	ED23017A	Matrix :	SOIL
Ext Btch ID:	GMD008S	% Moisture :	4.6
Calib. Ref.:	ED23016A	Instrument ID :	GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.99	0.49

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.54	1.971	78.3	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 21:44
Sample ID: B10-10	Date Analyzed: 04/23/18 21:44
Lab Samp ID: D138-16I	Dilution Factor: 0.83
Lab File ID: ED23018A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 16.8
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.54	1.995	77.2	10-160

Parameter	H-C Range
Gasoline	C5-C12

QC SUMMARIES

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/23/18
Batch No. : 18D138	Date Extracted: 04/23/18 13:58
Sample ID: MBLK1S	Date Analyzed: 04/23/18 13:58
Lab Samp ID: GMD008SB	Dilution Factor: 1
Lab File ID: ED23006A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : NA
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.83	2.000	91.4	70-140

Parameter	H-C Range
Gasoline	C5-C12

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D138
METHOD: METHOD SW5035A/SW8015B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	GMD008SB	GMD008SL	GMD008SC		
LAB FILE ID:	ED23006A	ED23004A	ED23005A		
DATE EXTRACTED:	04/23/1813:58	04/23/1812:40	04/23/1813:19	DATE COLLECTED:	NA
DATE ANALYZED:	04/23/1813:58	04/23/1812:40	04/23/1813:19	DATE RECEIVED:	04/23/18
PREP. BATCH:	GMD008S	GMD008S	GMD008S		
CALIB. REF:	ED23003A	ED23003A	ED23003A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	25.0	24.8	99	25.0	24.5	98	1	60-130	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.00	2.12	106	2.00	2.11	106	70-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D138
METHOD: METHOD SW5035A/SW8015B

MATRIX:	SOIL			% MOISTURE:	2.4
DILUTION FACTOR:	0.88	0.88	0.88		
SAMPLE ID:	B10-2				
LAB SAMP ID:	D138-14I	D138-14M	D138-14S		
LAB FILE ID:	ED23013A	ED23014A	ED23015A		
DATE EXTRACTED:	04/23/1818:31	04/23/1819:10	04/23/1819:49	DATE COLLECTED:	04/17/18
DATE ANALYZED:	04/23/1818:31	04/23/1819:10	04/23/1819:49	DATE RECEIVED:	04/17/18
PREP. BATCH:	GMD008S	GMD008S	GMD008S		
CALIB. REF:	ED23003A	ED23003A	ED23003A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	22.5	19.6	87	22.5	19.9	88	2	10-160	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Bromofluorobenzene	1.80	1.78	99	1.80	1.79	99	10-160

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two (2) water samples were received on 04/17/18 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSD021WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSD021WL/DSD021WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. For this SDG, all surrogate recoveries were within QC limits except for Hexacosane in D138-17; most likely due to matrix interference, however, the alternate surrogate, Bromobenzene, was within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

Samples D138-07 and D138-17 displayed mixed fuel pattern.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : D5

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSD021WB	1	NA	04/24/1812:48	04/23/1813:15	LD24008A	LD24004A	18DSD021W	Method Blank
LCS1W	DSD021WL	1	NA	04/24/1813:04	04/23/1813:15	LD24009A	LD24004A	18DSD021W	Lab Control Sample (LCS)
LCD1W	DSD021WC	1	NA	04/24/1814:03	04/23/1813:15	LD24010A	LD24004A	18DSD021W	LCS Duplicate
B14	D138-07	1	NA	04/24/1818:48	04/23/1813:15	LD24027A	LD24022A	18DSD021W	Field Sample
B7	D138-17	1	NA	04/24/1819:05	04/23/1813:15	LD24028A	LD24022A	18DSD021W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 14:15
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 13:15
Sample ID	: B14	Date Analyzed:	04/24/18 18:48
Lab Samp ID:	18D138-07	Dilution Factor:	1
Lab File ID:	LD24027A	Matrix:	WATER
Ext Btch ID:	18DSD021W	% Moisture:	NA
Calib. Ref.:	LD24022A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	0.52	0.52	0.10
Motor Oil	0.79	0.52	0.10

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.616	1.04	59	50-130
Hexacosane	0.214	0.260	82	40-150

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 480ml	Final Volume	: 5ml
Prepared by	: KValer	Analyzed by	: SDeeso

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 13:38
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 13:15
Sample ID	: B7	Date Analyzed:	04/24/18 19:05
Lab Samp ID:	18D138-17	Dilution Factor:	1
Lab File ID:	LD24028A	Matrix:	WATER
Ext Btch ID:	18DSD021W	% Moisture:	NA
Calib. Ref.:	LD24022A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	0.73	0.50	0.10
Motor Oil	1.2	0.50	0.10

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.795	1.00	80	50-130
Hexacosane	0.489	0.250	196*	40-150

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 500ml	Final Volume :	5ml
Prepared by	: KValer	Analyzed by :	SDeeso

QC SUMMARIES

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/23/18 13:15
Project	: POLA-1500 I STREET	Date Received:	04/23/18
Batch No.	: 18D138	Date Extracted:	04/23/18 13:15
Sample ID	: MBLK1W	Date Analyzed:	04/24/18 12:48
Lab Samp ID:	DSD021WB	Dilution Factor:	1
Lab File ID:	LD24008A	Matrix:	WATER
Ext Btch ID:	18DSD021W	% Moisture:	NA
Calib. Ref.:	LD24004A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.50	0.10
Motor Oil	ND	0.50	0.10

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.957	1.00	96	50-130
Hexacosane	0.259	0.250	104	40-150

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1000ml	Final Volume :	10ml
Prepared by	: KValer	Analyzed by :	SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: DSD021WB	DSD021WL	DSD021WC
LAB FILE ID	: LD24008A	LD24009A	LD24010A
DATE PREPARED	: 04/23/18 13:15	04/23/18 13:15	04/23/18 13:15
DATE ANALYZED	: 04/24/18 12:48	04/24/18 13:04	04/24/18 14:03
PREP BATCH	: 18DSD021W	18DSD021W	18DSD021W
CALIBRATION REF	: LD24004A	LD24004A	LD24004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	5.00	4.84	97	5.00	4.66	93	4	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromobenzene	1.00	1.01	101	1.00	0.986	99	50-130
Hexacosane	0.250	0.252	101	0.250	0.243	97	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of fourteen (14) soil samples were received on 04/17/18 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3550B/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSD020SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSD020SL/DSD020SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Diesel was within MS QC limits in D138-09M/S. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

Samples D138-01I, -10, -13, -14 and -15I displayed heavier fuel pattern.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : D5

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	DSD020SB	1	NA	04/24/1802:49	04/23/1814:30	LD23047A	LD23045A	18DSD020S	Method Blank
LCS1S	DSD020SL	1	NA	04/24/1803:05	04/23/1814:30	LD23048A	LD23045A	18DSD020S	Lab Control Sample (LCS)
LCD1S	DSD020SC	1	NA	04/24/1803:22	04/23/1814:30	LD23049A	LD23045A	18DSD020S	LCS Duplicate
B1-0.5	D138-01I	5	4.9	04/24/1803:39	04/23/1814:30	LD23050A	LD23045A	18DSD020S	Diluted Sample
B1-2	D138-02	1	11.7	04/24/1803:55	04/23/1814:30	LD23051A	LD23045A	18DSD020S	Field Sample
B1-5	D138-03	1	13.7	04/24/1804:12	04/23/1814:30	LD23052A	LD23045A	18DSD020S	Field Sample
B1-10	D138-04	1	20.0	04/24/1804:29	04/23/1814:30	LD23053A	LD23045A	18DSD020S	Field Sample
B1-15	D138-06	1	13.8	04/24/1804:45	04/23/1814:30	LD23054A	LD23045A	18DSD020S	Field Sample
B7-0.5	D138-08	1	4.7	04/24/1805:02	04/23/1814:30	LD23055A	LD23045A	18DSD020S	Field Sample
B7-2	D138-09	1	11.0	04/24/1805:18	04/23/1814:30	LD23056A	LD23045A	18DSD020S	Field Sample
B7-2MS	D138-09M	1	11.0	04/24/1805:35	04/23/1814:30	LD23057A	LD23045A	18DSD020S	Matrix Spike Sample (MS)
B7-2MSD	D138-09S	1	11.0	04/24/1805:52	04/23/1814:30	LD23058A	LD23045A	18DSD020S	MS Duplicate (MSD)
B15-10	D138-10	1	12.9	04/24/1806:08	04/23/1814:30	LD23059A	LD23045A	18DSD020S	Field Sample
B9-5	D138-11	1	14.1	04/24/1807:14	04/23/1814:30	LD23063A	LD23045A	18DSD020S	Field Sample
B9-10	D138-12	1	18.5	04/24/1807:31	04/23/1814:30	LD23064A	LD23045A	18DSD020S	Field Sample
B10-0.5	D138-13	1	1.9	04/24/1807:47	04/23/1814:30	LD23065A	LD23045A	18DSD020S	Field Sample
B10-2	D138-14	1	2.4	04/24/1808:04	04/23/1814:30	LD23066A	LD23045A	18DSD020S	Field Sample
B10-5	D138-15I	5	4.6	04/24/1808:21	04/23/1814:30	LD23067A	LD23045A	18DSD020S	Diluted Sample
B10-10	D138-16	1	16.8	04/24/1808:37	04/23/1814:30	LD23068A	LD23045A	18DSD020S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 07:19
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B1-0.5	Date Analyzed:	04/24/18 03:39
Lab Samp ID:	18D138-01I	Dilution Factor:	5
Lab File ID:	LD23050A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	4.9
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	46J	53	26
Motor Oil	590	110	26

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	101	105	96	50-130
Hexacosane	28.2	26.3	107	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 07:25
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B1-2	Date Analyzed:	04/24/18 03:55
Lab Samp ID:	18D138-02	Dilution Factor:	1
Lab File ID:	LD23051A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	11.7
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.7
Motor Oil	ND	23	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	105	113	93	50-130
Hexacosane	29.1	28.3	103	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 07:40
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B1-5	Date Analyzed:	04/24/18 04:12
Lab Samp ID:	18D138-03	Dilution Factor:	1
Lab File ID:	LD23052A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	13.7
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	109	116	94	50-130
Hexacosane	30.3	29.0	105	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.03g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 07:50
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B1-10	Date Analyzed:	04/24/18 04:29
Lab Samp ID:	18D138-04	Dilution Factor:	1
Lab File ID:	LD23053A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	20.0
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	6.2
Motor Oil	ND	25	6.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	123	125	98	50-130
Hexacosane	34.6	31.3	111	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 07:58
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B1-15	Date Analyzed:	04/24/18 04:45
Lab Samp ID:	18D138-06	Dilution Factor:	1
Lab File ID:	LD23054A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	13.8
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	112	116	97	50-130
Hexacosane	30.0	29.0	104	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.05g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 08:39
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B7-0.5	Date Analyzed:	04/24/18 05:02
Lab Samp ID:	18D138-08	Dilution Factor:	1
Lab File ID:	LD23055A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	4.7
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.2
Motor Oil	ND	21	5.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	98.7	105	94	50-130
Hexacosane	27.2	26.2	104	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume :	10ml
Prepared by	: TWangc/JV	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 08:44
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B7-2	Date Analyzed:	04/24/18 05:18
Lab Samp ID:	18D138-09	Dilution Factor:	1
Lab File ID:	LD23056A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	11.0
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.6
Motor Oil	ND	22	5.6

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	113	112	100	50-130
Hexacosane	31.3	28.1	112	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume :	10ml
Prepared by	: TWangc/JV	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 11:11
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B15-10	Date Analyzed:	04/24/18 06:08
Lab Samp ID:	18D138-10	Dilution Factor:	1
Lab File ID:	LD23059A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	12.9
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.7
Motor Oil	37	23	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	118	115	103	50-130
Hexacosane	31.8	28.7	111	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 13:10
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B9-5	Date Analyzed:	04/24/18 07:14
Lab Samp ID:	18D138-11	Dilution Factor:	1
Lab File ID:	LD23063A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	14.1
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	115	116	99	50-130
Hexacosane	32.4	29.1	111	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 13:18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B9-10	Date Analyzed:	04/24/18 07:31
Lab Samp ID:	18D138-12	Dilution Factor:	1
Lab File ID:	LD23064A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	18.5
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	6.1
Motor Oil	ND	25	6.1

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	123	123	100	50-130
Hexacosane	34.2	30.7	111	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 13:42
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B10-0.5	Date Analyzed:	04/24/18 07:47
Lab Samp ID:	18D138-13	Dilution Factor:	1
Lab File ID:	LD23065A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	1.9
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	8.9J	10	5.1
Motor Oil	160	20	5.1

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	104	102	102	50-130
Hexacosane	29.7	25.5	116	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.04g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 13:45
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B10-2	Date Analyzed:	04/24/18 08:04
Lab Samp ID:	18D138-14	Dilution Factor:	1
Lab File ID:	LD23066A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	2.4
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	12	10	5.1
Motor Oil	170	20	5.1

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	104	102	102	50-130
Hexacosane	29.3	25.6	114	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume :	10ml
Prepared by	: TWangc/JV	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 14:00
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B10-5	Date Analyzed:	04/24/18 08:21
Lab Samp ID:	18D138-15I	Dilution Factor:	5
Lab File ID:	LD23067A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	4.6
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	180	52	26
Motor Oil	2000	100	26

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	101	105	96	50-130
Hexacosane	30.2	26.2	115	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume :	10ml
Prepared by	: TWangc/JV	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 14:05
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B10-10	Date Analyzed:	04/24/18 08:37
Lab Samp ID	: 18D138-16	Dilution Factor:	1
Lab File ID	: LD23068A	Matrix:	SOIL
Ext Btch ID	: 18DSD020S	% Moisture:	16.8
Calib. Ref.	: LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	6.0
Motor Oil	ND	24	6.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	117	120	98	50-130
Hexacosane	33.0	30.0	110	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.04g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

QC SUMMARIES

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/23/18 14:30
Project	: POLA-1500 I STREET	Date Received:	04/23/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: MBLK1S	Date Analyzed:	04/24/18 02:49
Lab Samp ID:	DSD020SB	Dilution Factor:	1
Lab File ID:	LD23047A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	NA
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.0
Motor Oil	ND	20	5.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	105	100	105	50-130
Hexacosane	29.1	25.0	116	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : 3550B/8015B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: DSD020SB	DSD020SL	DSD020SC
LAB FILE ID	: LD23047A	LD23048A	LD23049A
DATE PREPARED	: 04/23/18 14:30	04/23/18 14:30	04/23/18 14:30
DATE ANALYZED	: 04/24/18 02:49	04/24/18 03:05	04/24/18 03:22
PREP BATCH	: 18DSD020S	18DSD020S	18DSD020S
CALIBRATION REF	: LD23045A	LD23045A	LD23045A

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	500	573	115	500	545	109	5	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	QCLimit (%)
Bromobenzene	100	112	112	100	103	103	50-130
Hexacosane	25.0	30.4	122	25.0	29.0	116	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : 3550B/8015B

MATRIX	: SOIL		% MOISTURE:11.0
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B7-2	B7-2MS	B7-2MSD
LAB SAMPLE ID	: 18D138-09	18D138-09M	18D138-09S
LAB FILE ID	: LD23056A	LD23057A	LD23058A
DATE PREPARED	: 04/23/18 14:30	04/23/18 14:30	04/23/18 14:30
DATE ANALYZED	: 04/24/18 05:18	04/24/18 05:35	04/24/18 05:52
PREP BATCH	: 18DSD020S	18DSD020S	18DSD020S
CALIBRATION REF	: LD23045A	LD23045A	LD23045A

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	562	559	100	562	528	94	6	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	QCLimit (%)
Bromobenzene	112	106	94	112	109	97	50-130
Hexacosane	28.1	30.6	109	28.1	29.2	104	40-160

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW3550B/SW8082
PCBs

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD SW3550B/SW8082
PCBS

A total of nine (9) soil samples were received on 04/17/18 to be analyzed for PCBs in accordance with Method SW3550B/SW8082 and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. 60D016SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. 60D016SL/60D016SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. D138-14M/S - all analytes were within MS QC limits. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Relative percentage difference (RPD) between the two results was evaluated. If RPD is less than 40% and peaks are well defined the higher result is reported. Where RPD is greater than 40% the chromatogram was checked for anomalies and results were selected based on processed knowledge. If there is no evidence of any chromatographic ambiguity, the higher result is reported.

Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample extracts subjected to appropriate cleanup technique to reduce matrix interference are recorded in extraction log. Refer to extraction log for details.

LAB CHRONICLE
PCBs

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : 71

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	60D016SB	1	NA	04/24/1803:36	04/20/1815:05	KD23032A	KD23021A	CPD016S	Method Blank
LCS1S	60D016SL	1	NA	04/23/1819:32	04/20/1815:05	KD23008A	KD23005A	CPD016S	Lab Control Sample (LCS)
LCD1S	60D016SC	1	NA	04/23/1819:52	04/20/1815:05	KD23009A	KD23005A	CPD016S	LCS Duplicate
B7-0.5	D138-08	1	4.7	04/23/1821:53	04/20/1815:05	KD23015A	KD23005A	CPD016S	Field Sample
B7-2	D138-09	1	11.0	04/23/1822:13	04/20/1815:05	KD23016A	KD23005A	CPD016S	Field Sample
B15-10	D138-10	1	12.9	04/23/1822:33	04/20/1815:05	KD23017A	KD23005A	CPD016S	Field Sample
B9-5	D138-11	1	14.1	04/23/1822:54	04/20/1815:05	KD23018A	KD23005A	CPD016S	Field Sample
B9-10	D138-12	1	18.5	04/23/1823:14	04/20/1815:05	KD23019A	KD23005A	CPD016S	Field Sample
B10-0.5	D138-13	1	1.9	04/24/1800:34	04/20/1815:05	KD23023A	KD23021A	CPD016S	Field Sample
B10-2	D138-14	1	2.4	04/24/1800:54	04/20/1815:05	KD23024A	KD23021A	CPD016S	Field Sample
B10-2MS	D138-14M	1	2.4	04/24/1801:15	04/20/1815:05	KD23025A	KD23021A	CPD016S	Matrix Spike Sample (MS)
B10-2MSD	D138-14S	1	2.4	04/24/1801:35	04/20/1815:05	KD23026A	KD23021A	CPD016S	MS Duplicate (MSD)
B10-5	D138-15	1	4.6	04/24/1801:55	04/20/1815:05	KD23027A	KD23021A	CPD016S	Field Sample
B10-10	D138-16	1	16.8	04/24/1802:15	04/20/1815:05	KD23028A	KD23021A	CPD016S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/20/18 15:05
Sample ID:	B7-0.5	Date Analyzed:	04/23/18 21:53
Lab Samp ID:	D138-08	Dilution Factor:	1
Lab File ID:	KD23015A	Matrix :	SOIL
Ext Btch ID:	CPD016S	% Moisture :	4.7
Calib. Ref.:	KD23005A	Instrument ID :	GCT071

PARAMETERS	RESULTS (ug/kg)		RL (ug/kg)	MDL (ug/kg)	
PCB-1016	(ND)	ND	52	18	18
PCB-1221	(ND)	ND	52	18	18
PCB-1232	(ND)	ND	52	18	18
PCB-1242	(ND)	ND	52	18	18
PCB-1248	(ND)	ND	52	18	18
PCB-1254	(ND)	ND	52	18	18
PCB-1260	(ND)	ND	52	18	18

SURROGATE PARAMETERS	RESULTS		SPK_AMT	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	(11.39)	10.51	13.99	(81.4)	75.1	50-130
DECACHLOROBIPHENYL	(20.04)	13.33	13.99	(143)	95.3	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D138	Date Extracted	: 04/20/18 15:05
Sample ID	: B7-2	Date Analyzed	: 04/23/18 22:13
Lab Samp ID	: D138-09	Dilution Factor	: 1
Lab File ID	: KD23016A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: 11.0
Calib. Ref.	: KD23005A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	56	19 | 19
PCB-1221	(ND) | ND	56	19 | 19
PCB-1232	(ND) | ND	56	19 | 19
PCB-1242	(ND) | ND	56	19 | 19
PCB-1248	(ND) | ND	56	19 | 19
PCB-1254	(ND) | ND	56	19 | 19
PCB-1260	(ND) | ND	56	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(13.55) | 13.19	14.98	(90.5) | 88.1	50-130
DECACHLOROBIPHENYL	(15.23) | 13.72	14.98	(102) | 91.6	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D138	Date Extracted	: 04/20/18 15:05
Sample ID	: B15-10	Date Analyzed	: 04/23/18 22:33
Lab Samp ID	: D138-10	Dilution Factor	: 1
Lab File ID	: KD23017A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: 12.9
Calib. Ref.	: KD23005A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	57	19 | 19
PCB-1221	(ND) | ND	57	19 | 19
PCB-1232	(ND) | ND	57	19 | 19
PCB-1242	(ND) | ND	57	19 | 19
PCB-1248	(ND) | ND	57	19 | 19
PCB-1254	(ND) | ND	57	19 | 19
PCB-1260	(ND) | ND	57	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(14.61) | 14.52	15.30	(95.4) | 94.9	50-130
DECACHLOROBIPHENYL	(16.90) | 15.60	15.30	(110) | 102	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/20/18 15:05
Sample ID:	B9-5	Date Analyzed:	04/23/18 22:54
Lab Samp ID:	D138-11	Dilution Factor:	1
Lab File ID:	KD23018A	Matrix	: SOIL
Ext Btch ID:	CPD016S	% Moisture	: 14.1
Calib. Ref.:	KD23005A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	58	19 | 19
PCB-1221	(ND) | ND	58	19 | 19
PCB-1232	(ND) | ND	58	19 | 19
PCB-1242	(ND) | ND	58	19 | 19
PCB-1248	(ND) | ND	58	19 | 19
PCB-1254	(ND) | ND	58	19 | 19
PCB-1260	(ND) | ND	58	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	14.75 | (14.95)	15.52	95.1 | (96.3)	50-130
DECACHLOROBIPHENYL	(18.25) | 15.10	15.52	(118) | 97.3	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D138	Date Extracted	: 04/20/18 15:05
Sample ID	: B9-10	Date Analyzed	: 04/23/18 23:14
Lab Samp ID	: D138-12	Dilution Factor	: 1
Lab File ID	: KD23019A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: 18.5
Calib. Ref.:	KD23005A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	61	20 | 20
PCB-1221	(ND) | ND	61	20 | 20
PCB-1232	(ND) | ND	61	20 | 20
PCB-1242	(ND) | ND	61	20 | 20
PCB-1248	(ND) | ND	61	20 | 20
PCB-1254	(ND) | ND	61	20 | 20
PCB-1260	(ND) | ND	61	20 | 20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	16.27 | (16.95)	16.36	99.5 | (104)	50-130
DECACHLOROBIPHENYL	(19.70) | 16.56	16.36	(120) | 101	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/20/18 15:05
Sample ID: B10-0.5	Date Analyzed: 04/24/18 00:34
Lab Samp ID: D138-13	Dilution Factor: 1
Lab File ID: KD23023A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 1.9
Calib. Ref.: KD23021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	51	17 | 17
PCB-1221	(ND) | ND	51	17 | 17
PCB-1232	(ND) | ND	51	17 | 17
PCB-1242	(ND) | ND	51	17 | 17
PCB-1248	(ND) | ND	51	17 | 17
PCB-1254	(ND) | ND	51	17 | 17
PCB-1260	(85) | 95	51	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.40 | (13.88)	13.59	98.6 | (102)	50-130
DECACHLOROBIPHENYL	(14.65) | 14.14	13.59	(108) | 104	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/20/18 15:05
Sample ID: B10-2	Date Analyzed: 04/24/18 00:54
Lab Samp ID: D138-14	Dilution Factor: 1
Lab File ID: KD23024A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 2.4
Calib. Ref.: KD23021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	51	17 | 17
PCB-1221	(ND) | ND	51	17 | 17
PCB-1232	(ND) | ND	51	17 | 17
PCB-1242	(ND) | ND	51	17 | 17
PCB-1248	(ND) | ND	51	17 | 17
PCB-1254	(ND) | ND	51	17 | 17
PCB-1260	(52) | 74	51	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.42 | (13.54)	13.66	98.2 | (99.1)	50-130
DECACHLOROBIPHENYL	(17.57) | 14.22	13.66	(129) | 104	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D138	Date Extracted	: 04/20/18 15:05
Sample ID	: B10-5	Date Analyzed	: 04/24/18 01:55
Lab Samp ID	: D138-15	Dilution Factor	: 1
Lab File ID	: KD23027A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: 4.6
Calib. Ref.	: KD23021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	52	18 | 18
PCB-1221	(ND) | ND	52	18 | 18
PCB-1232	(ND) | ND	52	18 | 18
PCB-1242	(ND) | ND	52	18 | 18
PCB-1248	(ND) | ND	52	18 | 18
PCB-1254	(ND) | ND	52	18 | 18
PCB-1260	25J | (34J)	52	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	12.63 | (12.70)	13.97	90.4 | (90.9)	50-130
DECACHLOROBIPHENYL	(15.17) | 12.89	13.97	(109) | 92.3	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D138	Date Extracted	: 04/20/18 15:05
Sample ID	: B10-10	Date Analyzed	: 04/24/18 02:15
Lab Samp ID	: D138-16	Dilution Factor	: 1
Lab File ID	: KD23028A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: 16.8
Calib. Ref.	: KD23021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	60	20 | 20
PCB-1221	(ND) | ND	60	20 | 20
PCB-1232	(ND) | ND	60	20 | 20
PCB-1242	(ND) | ND	60	20 | 20
PCB-1248	(ND) | ND	60	20 | 20
PCB-1254	(ND) | ND	60	20 | 20
PCB-1260	(ND) | ND	60	20 | 20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(13.54) | 12.47	16.02	(84.5) | 77.8	50-130
DECACHLOROBIPHENYL	(16.66) | 14.99	16.02	(104) | 93.6	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

QC SUMMARIES

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: NA
Project	: POLA-1500 I STREET	Date Received	: 04/20/18
Batch No.	: 18D138	Date Extracted	: 04/20/18 15:05
Sample ID	: MBLK1S	Date Analyzed	: 04/24/18 03:36
Lab Samp ID	: 60D016SB	Dilution Factor	: 1
Lab File ID	: KD23032A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: NA
Calib. Ref.	: KD23021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	50	17 | 17
PCB-1221	(ND) | ND	50	17 | 17
PCB-1232	(ND) | ND	50	17 | 17
PCB-1242	(ND) | ND	50	17 | 17
PCB-1248	(ND) | ND	50	17 | 17
PCB-1254	(ND) | ND	50	17 | 17
PCB-1260	(ND) | ND	50	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.79 | (14.15)	13.33	103 | (106)	60-130
DECACHLOROBIPHENYL	(17.67) | 14.59	13.33	(133) | 109	70-140

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
 * Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D138
METHOD: SW3550B/SW8082

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	60D016SB	60D016SL	60D016SC		
LAB FILE ID:	KD23032A	KD23008A	KD23009A		
DATE EXTRACTED:	04/20/1815:05	04/20/1815:05	04/20/1815:05	DATE COLLECTED:	NA
DATE ANALYZED:	04/24/1803:36	04/23/1819:32	04/23/1819:52	DATE RECEIVED:	04/20/18
PREP. BATCH:	CPD016S	CPD016S	CPD016S		
CALIB. REF:	KD23021A	KD23005A	KD23005A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND)|ND	167	(154)|148	(92)|89	167	(171)|166	(103)|100	(10)|11	70-140	50
PCB-1260	(ND)|ND	167	(180)|150	(108)|90	167	(185)|166	(111)|100	(3)|10	70-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.33	(11.91)|10.98	(89.4)|82.4	13.33	(13.48)|12.98	(101)|97.4	60-130
Decachlorobiphenyl	13.33	(15.50)|13.26	(116)|99.5	13.33	(15.74)|14.20	(118)|107	70-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D138
METHOD: SW3550B/SW8082

MATRIX:	SOIL			% MOISTURE:	2.4
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	B10-2				
LAB SAMP ID:	D138-14	D138-14M	D138-14S		
LAB FILE ID:	KD23024A	KD23025A	KD23026A		
DATE EXTRACTED:	04/20/1815:05	04/20/1815:05	04/20/1815:05	DATE COLLECTED:	04/17/18
DATE ANALYZED:	04/24/1800:54	04/24/1801:15	04/24/1801:35	DATE RECEIVED:	04/17/18
PREP. BATCH:	CPD016S	CPD016S	CPD016S		
CALIB. REF:	KD23021A	KD23021A	KD23021A		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND)|ND	171	188|(216)	110|(126)	171	187|(214)	109|(125)	1|(1)	60-140	50
PCB-1260	(52)|74	171	(233)|222	(106)|87	171	(227)|221	(102)|86	(3)|0	10-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.66	(13.62)|13.29	(99.7)|97.3	13.66	(13.28)|12.97	(97.2)|95.0	50-130
Decachlorobiphenyl	13.66	(16.38)|14.12	(120)|103	13.66	(15.80)|14.03	(116)|103	50-150

* : Outside of QC limits

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METALS / MERCURY

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of nine (9) soil samples were received on 04/17/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD029SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD029SL/IPD029SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD029SB	1.000	NA	04/23/1818:44	04/20/1814:51	ID8D018066	ID8D018064	IPD029S	Method Blank
LCS1S	IPD029SL	1.000	NA	04/23/1818:47	04/20/1814:51	ID8D018067	ID8D018064	IPD029S	Lab Control Sample (LCS)
LCD1S	IPD029SC	1.000	NA	04/23/1818:51	04/20/1814:51	ID8D018068	ID8D018064	IPD029S	LCS Duplicate
B7-0.5	D138-08	1.000	4.7	04/23/1821:36	04/20/1814:51	ID8D018112	ID8D018110	IPD029S	Field Sample
B7-2	D138-09	1.000	11.0	04/23/1821:39	04/20/1814:51	ID8D018113	ID8D018110	IPD029S	Field Sample
B15-10	D138-10	1.000	12.9	04/23/1821:43	04/20/1814:51	ID8D018114	ID8D018110	IPD029S	Field Sample
B9-5	D138-11	1.000	14.1	04/23/1821:47	04/20/1814:51	ID8D018115	ID8D018110	IPD029S	Field Sample
B9-10	D138-12	1.000	18.5	04/23/1821:51	04/20/1814:51	ID8D018116	ID8D018110	IPD029S	Field Sample
B10-0.5	D138-13	1.000	1.9	04/23/1821:54	04/20/1814:51	ID8D018117	ID8D018110	IPD029S	Field Sample
B10-2	D138-14	1.000	2.4	04/23/1821:58	04/20/1814:51	ID8D018118	ID8D018110	IPD029S	Field Sample
B10-5	D138-15	1.000	4.6	04/23/1822:02	04/20/1814:51	ID8D018119	ID8D018110	IPD029S	Field Sample
B10-10	D138-16	1.000	16.8	04/23/1822:06	04/20/1814:51	ID8D018120	ID8D018110	IPD029S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 08:39
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: B7-0.5	Date Analyzed: 04/23/18 21:36
Lab Samp ID: D138-08	Dilution Factor: 1
Lab File ID: ID8D018112	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: 4.7
Calib. Ref.: ID8D018110	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.1	1.01
Arsenic	7.17	1.01	0.404
Barium	181	1.01	0.202
Beryllium	0.594J	1.01	0.202
Cadmium	0.184J	1.01	0.101
Chromium	31.0	1.01	0.202
Cobalt	13.3	1.01	0.202
Copper	30.6	1.01	0.202
Lead	15.4	1.01	0.202
Molybdenum	0.752J	5.05	0.505
Nickel	21.4	1.01	0.202
Selenium	1.36	1.01	0.505
Silver	ND	1.01	0.253
Thallium	ND	1.01	0.505
Vanadium	50.0	1.01	0.505
Zinc	100	2.02	1.01

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.038g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 08:44
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: B7-2	Date Analyzed: 04/23/18 21:39
Lab Samp ID: D138-09	Dilution Factor: 1
Lab File ID: ID8D018113	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: 11.0
Calib. Ref.: ID8D018110	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	1.09
Arsenic	10.6	1.09	0.434
Barium	203	1.09	0.217
Beryllium	0.848J	1.09	0.217
Cadmium	ND	1.09	0.109
Chromium	40.7	1.09	0.217
Cobalt	16.5	1.09	0.217
Copper	27.2	1.09	0.217
Lead	10.2	1.09	0.217
Molybdenum	ND	5.43	0.543
Nickel	27.0	1.09	0.217
Selenium	1.77	1.09	0.543
Silver	ND	1.09	0.271
Thallium	ND	1.09	0.543
Vanadium	66.5	1.09	0.543
Zinc	76.3	2.17	1.09

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.035g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 11:11
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: B15-10	Date Analyzed: 04/23/18 21:43
Lab Samp ID: D138-10	Dilution Factor: 1
Lab File ID: ID8D018114	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: 12.9
Calib. Ref.: ID8D018110	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.8	1.08
Arsenic	6.14	1.08	0.432
Barium	61.3	1.08	0.216
Beryllium	0.270J	1.08	0.216
Cadmium	ND	1.08	0.108
Chromium	14.4	1.08	0.216
Cobalt	9.15	1.08	0.216
Copper	10.2	1.08	0.216
Lead	3.83	1.08	0.216
Molybdenum	ND	5.40	0.540
Nickel	10.4	1.08	0.216
Selenium	0.900J	1.08	0.540
Silver	ND	1.08	0.270
Thallium	ND	1.08	0.540
Vanadium	24.0	1.08	0.540
Zinc	31.1	2.16	1.08

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.064g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 13:10
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D138	Date Extracted:	04/20/18 14:51
Sample ID:	B9-5	Date Analyzed:	04/23/18 21:47
Lab Samp ID:	D138-11	Dilution Factor:	1
Lab File ID:	ID8D018115	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	14.1
Calib. Ref.:	ID8D018110	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.5	1.15
Arsenic	10.4	1.15	0.459
Barium	132	1.15	0.229
Beryllium	0.764J	1.15	0.229
Cadmium	ND	1.15	0.115
Chromium	39.0	1.15	0.229
Cobalt	15.9	1.15	0.229
Copper	23.3	1.15	0.229
Lead	8.26	1.15	0.229
Molybdenum	1.20J	5.73	0.573
Nickel	25.2	1.15	0.229
Selenium	2.12	1.15	0.573
Silver	ND	1.15	0.287
Thallium	ND	1.15	0.573
Vanadium	63.9	1.15	0.573
Zinc	58.6	2.29	1.15

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.015g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 13:18
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: 89-10	Date Analyzed: 04/23/18 21:51
Lab Samp ID: D138-12	Dilution Factor: 1
Lab File ID: ID8D018116	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: 18.5
Calib. Ref.: ID8D018110	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.3	1.13
Arsenic	31.5	1.13	0.453
Barium	230	1.13	0.227
Beryllium	0.755J	1.13	0.227
Cadmium	ND	1.13	0.113
Chromium	39.0	1.13	0.227
Cobalt	16.4	1.13	0.227
Copper	23.9	1.13	0.227
Lead	7.96	1.13	0.227
Molybdenum	ND	5.66	0.566
Nickel	27.6	1.13	0.227
Selenium	1.20	1.13	0.566
Silver	ND	1.13	0.283
Thallium	ND	1.13	0.566
Vanadium	59.2	1.13	0.566
Zinc	67.2	2.27	1.13

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.084g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 13:42
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: B10-0.5	Date Analyzed: 04/23/18 21:54
Lab Samp ID: D138-13	Dilution Factor: 1
Lab File ID: ID8D018117	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: 1.9
Calib. Ref.: ID8D018110	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	9.81	0.981
Arsenic	12.8	0.981	0.392
Barium	219	0.981	0.196
Beryllium	0.380J	0.981	0.196
Cadmium	1.46	0.981	0.0981
Chromium	43.7	0.981	0.196
Cobalt	12.0	0.981	0.196
Copper	477	0.981	0.196
Lead	127	0.981	0.196
Molybdenum	2.48J	4.90	0.490
Nickel	30.6	0.981	0.196
Selenium	1.20	0.981	0.490
Silver	ND	0.981	0.245
Thallium	ND	0.981	0.490
Vanadium	41.5	0.981	0.490
Zinc	399	1.96	0.981

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.04g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 13:45
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D138	Date Extracted:	04/20/18 14:51
Sample ID:	B10-2	Date Analyzed:	04/23/18 21:58
Lab Samp ID:	D13B-14	Dilution Factor:	1
Lab File ID:	ID8D018118	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	2.4
Calib. Ref.:	ID8D018110	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.1	1.01
Arsenic	14.3	1.01	0.404
Barium	178	1.01	0.202
Beryllium	0.365J	1.01	0.202
Cadmium	0.696J	1.01	0.101
Chromium	64.3	1.01	0.202
Cobalt	11.9	1.01	0.202
Copper	493	1.01	0.202
Lead	110	1.01	0.202
Molybdenum	3.34J	5.05	0.505
Nickel	33.1	1.01	0.202
Selenium	1.39	1.01	0.505
Silver	ND	1.01	0.253
Thallium	ND	1.01	0.505
Vanadium	43.5	1.01	0.505
Zinc	176	2.02	1.01

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.014g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 14:00
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: B10-5	Date Analyzed: 04/23/18 22:02
Lab Samp ID: D138-15	Dilution Factor: 1
Lab File ID: ID8D018119	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: 4.6
Calib. Ref.: ID8D018110	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	9.99	0.999
Arsenic	7.90	0.999	0.400
Barium	139	0.999	0.200
Beryllium	0.334J	0.999	0.200
Cadmium	0.289J	0.999	0.0999
Chromium	35.7	0.999	0.200
Cobalt	11.9	0.999	0.200
Copper	26.9	0.999	0.200
Lead	45.5	0.999	0.200
Molybdenum	0.998J	4.99	0.499
Nickel	20.3	0.999	0.200
Selenium	1.09	0.999	0.499
Silver	ND	0.999	0.250
Thallium	ND	0.999	0.499
Vanadium	43.5	0.999	0.499
Zinc	96.2	2.00	0.999

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.049g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 14:05
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: B10-10	Date Analyzed: 04/23/18 22:06
Lab Samp ID: D138-16	Dilution Factor: 1
Lab File ID: ID8D018120	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: 16.8
Calib. Ref.: ID8D018110	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.8	1.18
Arsenic	10.5	1.18	0.470
Barium	84.9	1.18	0.235
Beryllium	0.290J	1.18	0.235
Cadmium	0.145J	1.18	0.118
Chromium	15.1	1.18	0.235
Cobalt	7.16	1.18	0.235
Copper	11.3	1.18	0.235
Lead	5.60	1.18	0.235
Molybdenum	ND	5.88	0.588
Nickel	8.88	1.18	0.235
Selenium	0.822J	1.18	0.588
Silver	ND	1.18	0.294
Thallium	ND	1.18	0.588
Vanadium	22.1	1.18	0.588
Zinc	38.9	2.35	1.18

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.022g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: NA
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: MBLK1S	Date Analyzed: 04/23/18 18:44
Lab Samp ID: IPD029SB	Dilution Factor: 1
Lab File ID: ID8D018066	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: NA
Calib. Ref.: ID8D018064	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.0	1.00
Arsenic	ND	1.00	0.400
Barium	ND	1.00	0.200
Beryllium	ND	1.00	0.200
Cadmium	ND	1.00	0.100
Chromium	ND	1.00	0.200
Cobalt	ND	1.00	0.200
Copper	ND	1.00	0.200
Lead	ND	1.00	0.200
Molybdenum	ND	5.00	0.500
Nickel	ND	1.00	0.200
Selenium	ND	1.00	0.500
Silver	ND	1.00	0.250
Thallium	ND	1.00	0.500
Vanadium	ND	1.00	0.500
Zinc	ND	2.00	1.00

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPD029SB	IPD029SL	IPD029SC
LAB FILE ID	: ID8D018066	ID8D018067	ID8D018068
DATE PREPARED	: 04/20/18 14:51	04/20/18 14:51	04/20/18 14:51
DATE ANALYZED	: 04/23/18 18:44	04/23/18 18:47	04/23/18 18:51
PREP BATCH	: IPD029S	IPD029S	IPD029S
CALIBRATION REF	: ID8D018064	ID8D018064	ID8D018064

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Antimony	ND	250	232	93	250	231	92	0	80-120	20
Arsenic	ND	50	46.6	93	50	45.9	92	2	80-120	20
Barium	ND	50	47.2	94	50	47.0	94	0	80-120	20
Beryllium	ND	50	44.7	89	50	44.6	89	0	80-120	20
Cadmium	ND	50	45.2	90	50	44.6	89	1	80-120	20
Chromium	ND	50	48.4	97	50	48.1	96	1	80-120	20
Cobalt	ND	50	47.6	95	50	47.2	94	1	80-120	20
Copper	ND	50	44.0	88	50	43.7	87	1	80-120	20
Lead	ND	50	46.9	94	50	46.4	93	1	80-120	20
Molybdenum	ND	50	51.7	103	50	51.8	104	0	80-120	20
Nickel	ND	50	47.1	94	50	46.9	94	0	80-120	20
Selenium	ND	50	45.1	90	50	44.4	89	2	80-120	20
Silver	ND	50	43.8	88	50	42.8	86	2	80-120	20
Thallium	ND	50	46.8	94	50	45.9	92	2	80-120	20
Vanadium	ND	50	49.4	99	50	49.3	99	0	80-120	20
Zinc	ND	50	49.7	99	50	49.6	99	0	80-120	20

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 7471A
MERCURY BY COLD VAPOR

A total of nine (9) soil samples were received on 04/17/18 to be analyzed for Mercury by Cold Vapor in accordance with Method 7471A and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. Mercury was not detected in HGD022SB. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. HGD022SL/HGD022SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : 47

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	HGD022SB	1	NA	04/23/1817:12	04/23/1813:45	M47D014011	M47D014	18HGD022S	Method Blank
LCS1S	HGD022SL	1	NA	04/23/1817:14	04/23/1813:45	M47D014012	M47D014	18HGD022S	Lab Control Sample (LCS)
LCD1S	HGD022SC	1	NA	04/23/1817:16	04/23/1813:45	M47D014013	M47D014	18HGD022S	LCS Duplicate
B7-0.5	D138-08	1	4.7	04/23/1817:44	04/23/1813:45	M47D014027	M47D014	18HGD022S	Field Sample
B7-2	D138-09	1	11.0	04/23/1817:46	04/23/1813:45	M47D014028	M47D014	18HGD022S	Field Sample
B15-10	D138-10	1	12.9	04/23/1817:49	04/23/1813:45	M47D014029	M47D014	18HGD022S	Field Sample
B9-5	D138-11	1	14.1	04/23/1817:53	04/23/1813:45	M47D014030	M47D014	18HGD022S	Field Sample
B9-10	D138-12	1	18.5	04/23/1817:56	04/23/1813:45	M47D014031	M47D014	18HGD022S	Field Sample
B10-0.5	D138-13	1	1.9	04/23/1817:57	04/23/1813:45	M47D014032	M47D014	18HGD022S	Field Sample
B10-2	D138-14	1	2.4	04/23/1818:04	04/23/1813:45	M47D014035	M47D014	18HGD022S	Field Sample
B10-5	D138-15	1	4.6	04/23/1818:06	04/23/1813:45	M47D014036	M47D014	18HGD022S	Field Sample
B10-10	D138-16	1	16.8	04/23/1818:09	04/23/1813:45	M47D014037	M47D014	18HGD022S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7471A
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET
Batch No. : 18D138

Matrix : SOIL
InstrumentID : 47

CLIENT SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/Kg)	DILT'N FACTOR	MOIST (%)	RL (mg/Kg)	MDL (mg/Kg)	ANALYSIS DATETIME	PREPARATION DATETIME	DATA FILE ID	CAL REF	PREP BATCH	COLLECTION DATETIME	RECEIVED DATETIME
MBLK1S	HGD022SB	ND	1	NA	0.100	0.0200	04/23/1817:12	04/23/1813:45	M47D014011	M47D014	18HGD022S	NA	NA
LCS1S	HGD022SL	0.407	1	NA	0.100	0.0200	04/23/1817:14	04/23/1813:45	M47D014012	M47D014	18HGD022S	NA	NA
LCD1S	HGD022SC	0.412	1	NA	0.100	0.0200	04/23/1817:16	04/23/1813:45	M47D014013	M47D014	18HGD022S	NA	NA
B7-0.5	D138-08	ND	1	4.7	0.102	0.0203	04/23/1817:44	04/23/1813:45	M47D014027	M47D014	18HGD022S	04/17/1808:39	04/17/18
B7-2	D138-09	0.0901J	1	11.0	0.108	0.0215	04/23/1817:46	04/23/1813:45	M47D014028	M47D014	18HGD022S	04/17/1808:44	04/17/18
B15-10	D138-10	ND	1	12.9	0.112	0.0224	04/23/1817:49	04/23/1813:45	M47D014029	M47D014	18HGD022S	04/17/1811:11	04/17/18
B9-5	D138-11	ND	1	14.1	0.115	0.0229	04/23/1817:53	04/23/1813:45	M47D014030	M47D014	18HGD022S	04/17/1813:10	04/17/18
B9-10	D138-12	ND	1	18.5	0.120	0.0240	04/23/1817:56	04/23/1813:45	M47D014031	M47D014	18HGD022S	04/17/1813:18	04/17/18
B10-0.5	D138-13	0.0855J	1	1.9	0.0973	0.0195	04/23/1817:57	04/23/1813:45	M47D014032	M47D014	18HGD022S	04/17/1813:42	04/17/18
B10-2	D138-14	0.184	1	2.4	0.102	0.0204	04/23/1818:04	04/23/1813:45	M47D014035	M47D014	18HGD022S	04/17/1813:45	04/17/18
B10-5	D138-15	0.0704J	1	4.6	0.100	0.0201	04/23/1818:06	04/23/1813:45	M47D014036	M47D014	18HGD022S	04/17/1814:00	04/17/18
B10-10	D138-16	ND	1	16.8	0.113	0.0227	04/23/1818:09	04/23/1813:45	M47D014037	M47D014	18HGD022S	04/17/1814:05	04/17/18

Note: Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : METHOD 7471A

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: HGD022SB	HGD022SL	HGD022SC
LAB FILE ID	: M47D014011	M47D014012	M47D014013
DATE PREPARED	: 04/23/1813:45	04/23/1813:45	04/23/1813:45
DATE ANALYZED	: 04/23/1817:12	04/23/1817:14	04/23/1817:16
PREP BATCH	: 18HGD022S	18HGD022S	18HGD022S
CALIBRATION REF:	M47D014	M47D014	M47D014

ACCESSION:

PARAMETERS	MBResult (mg/Kg)	SpikeAmt (mg/Kg)	LCSResult (mg/Kg)	LCSRec (%)	SpikeAmt (mg/Kg)	LCDResult (mg/Kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Mercury	ND	0.417	0.407	97.6	0.417	0.412	98.8	1	80-120	20

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 13:42
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D138A	Date Extracted:	05/24/18 10:18
Sample ID:	B10-0.5	Date Analyzed:	05/24/18 16:21
Lab Samp ID:	D138-13I	Dilution Factor:	5
Lab File ID:	ID8E019053	Matrix:	LEACHATE
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Chromium	0.708	0.250	0.0750
Copper	3.06	0.250	0.0750
Lead	6.47	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D138A	Date Extracted:	05/24/18 10:18
Sample ID:	MBLK1W	Date Analyzed:	05/24/18 15:58
Lab Samp ID:	IPE028WB	Dilution Factor:	1
Lab File ID:	ID8E019047	Matrix:	WATER
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Chromium	ND	0.0100	0.00300
Copper	ND	0.0100	0.00300
Lead	ND	0.0100	0.00300

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 50ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D138A	Date Extracted:	05/24/18 10:18
Sample ID	: MBLK2W	Date Analyzed:	05/24/18 16:09
Lab Samp ID	: WTE003SB	Dilution Factor:	5
Lab File ID	: ID8E019050	Matrix:	LEACHATE
Ext Btch ID	: IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Chromium	ND	0.250	0.0750
Copper	ND	0.250	0.0750
Lead	ND	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

D138-13I.TXT
IPE028WB.TXT
IPE028WC.TXT
IPE028WL.TXT
WTE003SB.TXT

```
00  ID8E019014  ICV        |
00  ID8E019015  ICB        |
00  ID8E019016  ICSA1      |
00  ID8E019017  ICSAB1     |
00  ID8E019019  CCV1       |
00  ID8E019020  CCB1       |
00  ID8E019045  CCV4       |
00  ID8E019046  CCB4       |
00  ID8E019047  IPE028WB   |
00  ID8E019048  IPE028WL   |
00  ID8E019049  IPE028WC   |
00  ID8E019050  WTE003SB   |
00  ID8E019053  D138-13I   |
00  ID8E019055  CCV5       |
00  ID8E019056  CCB5       |
```

"1","IPE028WB","ID8E019047"
"2","IPE028WL","ID8E019048"
"3","IPE028WC","ID8E019049"
"4","WTE003SB","ID8E019050"

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138A
METHOD : WET/3010A/6010B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: IPE028WB	IPE028WL	IPE028WC
LAB FILE ID	: ID8E019047	ID8E019048	ID8E019049
DATE PREPARED	: 05/24/18 10:18	05/24/18 10:18	05/24/18 10:18
DATE ANALYZED	: 05/24/18 15:58	05/24/18 16:02	05/24/18 16:06
PREP BATCH	: IPE028W	IPE028W	IPE028W
CALIBRATION REF	: ID8E019045	ID8E019045	ID8E019045

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Chromium	ND	0.5	0.482	96	0.5	0.487	97	1	80-120	20
Copper	ND	0.5	0.458	92	0.5	0.464	93	1	80-120	20
Lead	ND	0.5	0.460	92	0.5	0.465	93	1	80-120	20

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 05-10-2018
EMAX Batch No.: 18D139

Attn: Carrie Crozier

Parsons
100 West Walnut Street
Pasadena CA 91124

Subject: Laboratory Report
Project: POLA-1500 I STREET

Enclosed is the Laboratory report for samples received on 04/17/18.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
B7-5	D139-01	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B7-10	D139-02	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B7-15	D139-03	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B8-0.5	D139-04	04/17/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B8-2	D139-05	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE

Sample ID	Control #	Col Date	Matrix	Analysis
B8-2	D139-05	04/17/18	SOIL	TPH DIESEL & MOTOR OIL
				HOLD
B8-5	D139-06	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B8-10	D139-07	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B9-0.5	D139-08	04/17/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B9-2	D139-09	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B8-0.5D	D139-10	04/17/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B14-0.5	D139-11	04/17/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B14-2	D139-12	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY

Sample ID	Control #	Col Date	Matrix	Analysis
B14-2	D139-12	04/17/18	SOIL	PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B14-5	D139-13	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B14-10	D139-14	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B14-15	D139-15	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B15-0.5	D139-16	04/17/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B15-2	D139-17	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B15-5	D139-18	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)

Sample ID	Control #	Col Date	Matrix	Analysis
B15-5	D139-18	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B14-2D	D139-19	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Gaspar J. Pang
Laboratory Director

EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912017-13
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHAIN OF CUSTODY

EMAX Laboratories, Inc.	1835 W. 205th Street, Torrance, CA 90501 Tel # : 310-618-8889 FAX#: 310-618-0818 Email: info@emaxlabs.com	**PO NUMBER: 451077** SAMPLE STORAGE	**EMAX CONTROL NO.** 18D139 **PROJECT CODE:**

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT: ☐ Rush __24__hrs. ☐ Rush __48_hrs ☐ Rush_72_hrs ☑ 7 days ☐ 14 days ☐ 21 days

SAMPLE ID		SAMPLING			CONTAINER			MATRIX CODE	QC	ANALYSIS REQUIRED / PRESERVATIVE CODE										COMMENTS
LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE			TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	
* 1	B7-5		4/17/18	0909	7			SS		X	X					X	X	X	H	
* 2	B7-10		4/17/18	0919	7			SS		X	X					X	X	X	H	
* 3	B7-15		4/17/18	0928	7			SS		X	X					X	X	X	H	
* 4	B8-0.5		4/17/18	1122	4			SS		X						X	X	X	H	
* 5	B8-2		4/17/18	1131	7			SS		X	X					X	X	X	H	
* 6	B8-5		4/17/18	1146	7			SS		X	X					X	X	X	H	
* 7	B8-10		4/17/18	1152	7			SS		X	X					X	X	X	H	
* 8	B9-0.5		4/17/18	1255	4			SS		X						X	X	X	H	
* 9	B9-2		4/17/18	1301	7			SS		X	X					X	X	X	H	
10	B8-0.5D		4/17/18	1124	4			SS		X						X	X	X	H	

Instructions

Cooler #	Temp. (°C)	Sample #s
1	4.4	
3	5.7	
4	5.1	

SAMPLER

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/17/18	1500	
UCC 2699 Matt M.	4/17/18	3:20	
UCC2699 Matt M.	4/17/18	3:35	

COURIER/AIRBILL

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX Laboratories, Inc.	1835 W. 205th Street, Torrance, CA 90501 Tel # : 310-618-8889 FAX#: 310-618-0818 Email: info@emaxlabs.com	**PO NUMBER: 451077** SAMPLE STORAGE	**EMAX CONTROL NO.** 18D139 **PROJECT CODE:**

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT: ☐ Rush __24__hrs. ☐ Rush __48_hrs ☐ Rush_72_hrs ☑ 7 days ☐ 14 days ☐ 21 days

SAMPLE ID		SAMPLING			CONTAINER			MATRIX CODE	QC	ANALYSIS REQUIRED / PRESERVATIVE CODE										COMMENTS
LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE			TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	
* 1	~~B13-10~~							SS		X	X					X	X	X	H	CC 4/17/18
* 11	B14-0.5		4/17/18	0941	4			SS		X						X	X	X	H	
* 12	B14-2		4/17/18	0946	7			SS		X	X					X	X	X	H	
* 13	B14-5		4/17/18	1006	7			SS		X	X					X	X	X	H	
* 14	B14-10		4/17/18	1013	7			SS		X	X					X	X	X	H	
15	B14-15		4/17/18	1020	7			SS		X	X					X	X	X	H	
16	B15-0.5		4/17/18	1044	4			SS		X						X	X	X	H	
17	B15-2		4/17/18	1049	7			SS		X	X					X	X	X	H	
18	B15-5		4/17/18	1105	7			SS		X	X					X	X	X	H	
19	B14-2D		4/17/18	0948	7			SS		X	X					X	X	X	H	

Instructions	Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/17/18	1500	
OCC 2049 Matt M.	4/17/18	3:00	
OCC 2049 Matt M.	4/17/18	3:35	Khurshid Mehta

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 18D139
☐ Fedex ☐ UPS ☐ GSO ☑ Others All Around Courier		Recipient Isabel
☐ EMAX Courier ☐ Client Delivery		Date 4/17/18 Time 1535

COC INSPECTION

☑ Client Name	☑ Client PM/FC	☐ Sampler Name	☑ Sampling Date/Time	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☑ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: _____

PACKAGING INSPECTION

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☐ Intact	☐ Damaged		
Packaging	☐ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☑ Cooler 1 4.1 °C	☐ Cooler 2_____ °C	☑ Cooler 3 5.7 °C	☑ Cooler 4 5.1 °C	☐ Cooler 5_____ °C
	☐ Cooler 6_____ °C	☐ Cooler 7_____ °C	☐ Cooler 8_____ °C	☐ Cooler 9_____ °C	☐ Cooler 10_____ °C
Thermometer:	*A - S/N* _____	*B - S/N* 150555522	*C - S/N* _____	*D - S/N* 150555520	

Comments: ☐ Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
7	40	D0		R8
3	20	D1	Mercury not indicated in COC	↓
5	26	D1	Arsenic not in label	R8
9	53	D2	label: TPH	↓
1-9, 11-18	1-14, 15-20, 22-25, 27-57, 62-88, 90-92, 94-109	D10		R8
Added 4/18/18 18	109	D22		

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time. n/a 4/18/18 NB 4/18/18

NOTES/OBSERVATIONS:

☐ Continue to next page.

LEGEND:

Code	Description- Sample Management
D1	Analysis is not indicated in COC/label
D2	Analysis mismatch COC vs label
D3	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in label
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
D10	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
D16	Preservation not indicated in _____
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
D22	Vial is empty
D23	
D24	

Code	Description-Sample Management
R1	Proceed as indicated in ☐ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	Informed Client
R9	
R10	
R11	
R12	

REVIEWS:

Sample Labeling: Isabel Mata Date 4/17/18 4/17/18

SRF _____ Date 4/17/18

PM NB Date 4/18/18

Richard Beauvil

From: Crozier, Carrie [Carrie.Crozier@parsons.com]
Sent: Wednesday, April 18, 2018 10:45 AM
To: Richard Beauvil
Subject: Re: 18D132 SAMPLING AT 1500 I STREET

Hi Richard,
I left a voicemail, please hold PCBs and PAHs sent in from 1517-1520 E I St yesterday 4/17. I will send you a revised list shortly. Any sent in on 4/16 should follow the COC as provided.

Sent from my iPhone

On Apr 17, 2018, at 10:22 AM, Richard Beauvil <RBeauvil@emaxlabs.com> wrote:

> Great! Thank you.
>
> Richard M. Beauvil
> Project Manager/Safety Officer
> 1835 W. 205th Street
> Torrance, CA 90501
> Tel: 310-618-8889 X118
> rbeauvil@emaxlabs.com
>
>
>
> **From:** Crozier, Carrie [mailto:Carrie.Crozier@parsons.com]
> **Sent:** Tuesday, April 17, 2018 9:58 AM
> **To:** Richard Beauvil
> **Subject:** Re: 18D132 SAMPLING AT 1500 I STREET
>
> Have have collected jars and will submit them today.
>
> Sent from my iPhone
>
> On Apr 17, 2018, at 9:55 AM, Richard Beauvil <RBeauvil@emaxlabs.com> wrote:
>
> > Do you mean, you are not or you are?
> >
> > Richard M. Beauvil
> > Project Manager/Safety Officer
> > 1835 W. 205th Street
> > Torrance, CA 90501
> > Tel: 310-618-8889 X118
> > rbeauvil@emaxlabs.com

EMAX is interested in your feedback; please provide your comments to: customerservice@emaxlabs.com

EMAX Holidays Schedule:

From: Crozier, Carrie [mailto:Carrie.Crozier@parsons.com]
Sent: Tuesday, April 17, 2018 8:39 AM
To: Richard Beauvil
Subject: Re: 18D132 SAMPLING AT 1500 I STREET

We were able to get jars for samples 1-5, for sample 21, just run VOCs.

Sent from my iPhone

On Apr 16, 2018, at 7:00 PM, Richard Beauvil <RBeauvil@emaxlabs.com> wrote:

> Hi Carrie,
>
> I just got the COC of the "1500 I street". So we got some issues, please see attached. For the TPH for samples 1-5 and 21, we are missing a jar for TPH-D/M. If you don't need Diesel and motor oil, we still need a jar for the percent moisture so we can report your results on dry weight basis. Also it looks like a lot of the labels do not match the containers with the tests description. Let us know how to proceed. Give me a call if you need to talk to me.
>
> Thank you.
>
> Richard M. Beauvil
> Project Manager/Safety Officer
> 1835 W. 205th Street
> Torrance, CA 90501
> Tel: 310-618-8889 X118
> rbeauvil@emaxlabs.com
>
> ***EMAX*** is interested in your feedback; please provide your comments to: customerservice@emaxlabs.com
>
> ***EMAX Holidays Schedule:***
>
> <18D132.pdf>

or if you have any questions regarding the use of the proprietary information contained therein, please contact the sender of this message immediately, and the sender will provide you with further instructions.

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 18D139

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D139

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

A total of fourteen (14) soil samples were received on 04/17/18 to be analyzed for Volatile Organics by GC/MS in accordance with Method 5035A/8260B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VSF4D11B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VSF4D11L/VSF4D11C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D139
Instrument ID : F4

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	VSF4D11B	1	NA	04/19/1811:24	04/19/1811:24	RDN184	RDN081	VSF4D11	Method Blank
LCS1S	VSF4D11L	1	NA	04/19/1809:58	04/19/1809:58	RDN181	RDN081	VSF4D11	Lab Control Sample (LCS)
LCD1S	VSF4D11C	1	NA	04/19/1810:27	04/19/1810:27	RDN182	RDN081	VSF4D11	LCS Duplicate
B15-5	D139-18	0.92	20.8	04/19/1811:53	04/19/1811:53	RDN185	RDN081	VSF4D11	Field Sample
B7-5	D139-01	0.8	12.5	04/19/1812:22	04/19/1812:22	RDN186	RDN081	VSF4D11	Field Sample
B7-10	D139-02	0.9	22.6	04/19/1812:50	04/19/1812:50	RDN187	RDN081	VSF4D11	Field Sample
B7-15	D139-03	0.93	13.5	04/19/1813:18	04/19/1813:18	RDN188	RDN081	VSF4D11	Field Sample
B8-2	D139-05	0.92	12.1	04/19/1813:47	04/19/1813:47	RDN189	RDN081	VSF4D11	Field Sample
B8-5	D139-06	0.87	14.5	04/19/1814:15	04/19/1814:15	RDN190	RDN081	VSF4D11	Field Sample
B8-10	D139-07	0.92	22.4	04/19/1814:43	04/19/1814:43	RDN191	RDN081	VSF4D11	Field Sample
B9-2	D139-09	1.07	4.6	04/19/1815:12	04/19/1815:12	RDN192	RDN081	VSF4D11	Field Sample
B14-2	D139-12	0.89	6.8	04/19/1815:41	04/19/1815:41	RDN193	RDN081	VSF4D11	Field Sample
B14-5	D139-13	0.75	12.0	04/19/1816:09	04/19/1816:09	RDN194	RDN081	VSF4D11	Field Sample
B14-10	D139-14	0.96	11.8	04/19/1816:38	04/19/1816:38	RDN195	RDN081	VSF4D11	Field Sample
B14-15	D139-15	0.91	13.5	04/19/1817:06	04/19/1817:06	RDN196	RDN081	VSF4D11	Field Sample
B15-2	D139-17	0.96	4.6	04/19/1817:35	04/19/1817:35	RDN197	RDN081	VSF4D11	Field Sample
B14-2D	D139-19	0.89	6.4	04/19/1818:03	04/19/1818:03	RDN198	RDN081	VSF4D11	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 12:22
Sample ID: B7-5	Date Analyzed: 04/19/18 12:22
Lab Samp ID: D139-01	Dilution Factor: 0.8
Lab File ID: RDN186	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 12.5
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.6	0.91
1,1,1-TRICHLOROETHANE	ND	4.6	0.91
1,1,2,2-TETRACHLOROETHANE	ND	4.6	0.91
1,1,2-TRICHLOROETHANE	ND	4.6	0.91
1,1-DICHLOROETHANE	ND	4.6	0.91
1,1-DICHLOROETHENE	ND	4.6	0.91
1,1-DICHLOROPROPENE	ND	4.6	0.91
1,2,3-TRICHLOROBENZENE	ND	4.6	1.8
1,2,3-TRICHLOROPROPANE	ND	4.6	1.8
1,2,4-TRICHLOROBENZENE	ND	4.6	1.8
1,2,4-TRIMETHYLBENZENE	ND	4.6	0.91
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.6	1.8
1,2-DIBROMOETHANE	ND	4.6	0.91
1,2-DICHLOROBENZENE	ND	4.6	0.91
1,2-DICHLOROETHANE	ND	4.6	0.91
1,2-DICHLOROPROPANE	ND	4.6	0.91
1,3,5-TRIMETHYLBENZENE	ND	4.6	0.91
1,3-DICHLOROBENZENE	ND	4.6	0.91
1,3-DICHLOROPROPANE	ND	4.6	0.91
1,4-DICHLOROBENZENE	ND	4.6	0.91
2,2-DICHLOROPROPANE	ND	4.6	1.8
2-BUTANONE	ND	9.1	4.6
2-CHLOROTOLUENE	ND	4.6	0.91
2-HEXANONE	ND	9.1	4.6
4-CHLOROTOLUENE	ND	4.6	0.91
ACETONE	9.8	9.1	4.6
BENZENE	ND	4.6	0.91
BROMOBENZENE	ND	4.6	0.91
BROMOCHLOROMETHANE	ND	4.6	0.91
BROMODICHLOROMETHANE	ND	4.6	0.91
BROMOFORM	ND	4.6	1.8
BROMOMETHANE	ND	4.6	1.8
CARBON DISULFIDE	ND	4.6	0.91
CARBON TETRACHLORIDE	ND	4.6	0.91
CHLOROBENZENE	ND	4.6	0.91
CHLOROETHANE	ND	4.6	1.8
CHLOROFORM	ND	4.6	0.91
CHLOROMETHANE	ND	4.6	1.8
CIS-1,2-DICHLOROETHENE	ND	4.6	0.91
CIS-1,3-DICHLOROPROPENE	ND	4.6	0.91
DIBROMOCHLOROMETHANE	ND	4.6	0.91
DICHLORODIFLUOROMETHANE	ND	4.6	1.8
ETHYLBENZENE	ND	4.6	0.91
ISOPROPYL BENZENE	ND	4.6	0.91
M,P-XYLENES	ND	9.1	1.8
MIBK	ND	9.1	4.6
METHYLENE CHLORIDE	ND	4.6	1.8
MTBE	ND	4.6	0.91
NAPHTHALENE	ND	4.6	1.8
N-BUTYLBENZENE	ND	4.6	0.91
N-PROPYLBENZENE	ND	4.6	0.91
O-XYLENE	ND	4.6	0.91
P-ISOPROPYLTOLUENE	ND	4.6	0.91
SEC-BUTYLBENZENE	ND	4.6	0.91
STYRENE	ND	4.6	0.91
TERT-BUTYLBENZENE	ND	4.6	0.91
TETRACHLOROETHENE	ND	4.6	0.91
TOLUENE	ND	4.6	0.91
TRANS-1,2-DICHLOROETHENE	ND	4.6	0.91
TRANS-1,3-DICHLOROPROPENE	ND	4.6	0.91
TRICHLOROETHENE	ND	4.6	0.91
TRICHLOROFLUOROMETHANE	ND	4.6	1.8
VINYL CHLORIDE	ND	4.6	1.8
VINYL ACETATE	ND	4.6	1.8
FREON113	ND	4.6	1.8
DIBROMOMETHANE	ND	4.6	0.91

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	46.6	45.71	102	60-160
4-BROMOFLUOROBENZENE	47.0	45.71	103	70-150
TOLUENE-D8	47.0	45.71	103	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 12:50
Sample ID: B7-10	Date Analyzed: 04/19/18 12:50
Lab Samp ID: D139-02	Dilution Factor: 0.9
Lab File ID: RDN187	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 22.6
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.8	1.2
1,1,1-TRICHLOROETHANE	ND	5.8	1.2
1,1,2,2-TETRACHLOROETHANE	ND	5.8	1.2
1,1,2-TRICHLOROETHANE	ND	5.8	1.2
1,1-DICHLOROETHANE	ND	5.8	1.2
1,1-DICHLOROETHENE	ND	5.8	1.2
1,1-DICHLOROPROPENE	ND	5.8	1.2
1,2,3-TRICHLOROBENZENE	ND	5.8	2.3
1,2,3-TRICHLOROPROPANE	ND	5.8	5.3
1,2,4-TRICHLOROBENZENE	ND	5.8	2.3
1,2,4-TRIMETHYLBENZENE	ND	5.8	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.8	2.3
1,2-DIBROMOETHANE	ND	5.8	1.2
1,2-DICHLOROBENZENE	ND	5.8	1.2
1,2-DICHLOROETHANE	ND	5.8	1.2
1,2-DICHLOROPROPANE	ND	5.8	1.2
1,3,5-TRIMETHYLBENZENE	ND	5.8	1.2
1,3-DICHLOROBENZENE	ND	5.8	1.2
1,3-DICHLOROPROPANE	ND	5.8	1.2
1,4-DICHLOROBENZENE	ND	5.8	1.2
2,2-DICHLOROPROPANE	ND	5.8	2.3
2-BUTANONE	ND	12	5.8
2-CHLOROTOLUENE	ND	5.8	1.2
2-HEXANONE	ND	12	5.8
4-CHLOROTOLUENE	ND	5.8	1.2
ACETONE	37	12	5.8
BENZENE	ND	5.8	1.2
BROMOBENZENE	ND	5.8	1.2
BROMOCHLOROMETHANE	ND	5.8	1.2
BROMODICHLOROMETHANE	ND	5.8	1.2
BROMOFORM	ND	5.8	2.3
BROMOMETHANE	ND	5.8	2.3
CARBON DISULFIDE	ND	5.8	1.2
CARBON TETRACHLORIDE	ND	5.8	1.2
CHLOROBENZENE	ND	5.8	1.2
CHLOROETHANE	ND	5.8	2.3
CHLOROFORM	ND	5.8	1.2
CHLOROMETHANE	ND	5.8	2.3
CIS-1,2-DICHLOROETHENE	ND	5.8	1.2
CIS-1,3-DICHLOROPROPENE	ND	5.8	1.2
DIBROMOCHLOROMETHANE	ND	5.8	1.2
DICHLORODIFLUOROMETHANE	ND	5.8	2.3
ETHYLBENZENE	ND	5.8	1.2
ISOPROPYL BENZENE	ND	5.8	1.2
M,P-XYLENES	ND	12	2.3
MIBK	ND	12	5.8
METHYLENE CHLORIDE	ND	5.8	2.3
MTBE	ND	5.8	1.2
NAPHTHALENE	ND	5.8	2.3
N-BUTYLBENZENE	ND	5.8	1.2
N-PROPYLBENZENE	ND	5.8	1.2
O-XYLENE	ND	5.8	1.2
P-ISOPROPYLTOLUENE	ND	5.8	1.2
SEC-BUTYLBENZENE	ND	5.8	1.2
STYRENE	ND	5.8	1.2
TERT-BUTYLBENZENE	ND	5.8	1.2
TETRACHLOROETHENE	ND	5.8	1.2
TOLUENE	ND	5.8	1.2
TRANS-1,2-DICHLOROETHENE	ND	5.8	1.2
TRANS-1,3-DICHLOROPROPENE	ND	5.8	1.2
TRICHLOROETHENE	ND	5.8	1.2
TRICHLOROFLUOROMETHANE	ND	5.8	2.3
VINYL CHLORIDE	ND	5.8	5.3
VINYL ACETATE	ND	5.8	2.3
FREON113	ND	5.8	2.3
DIBROMOMETHANE	ND	5.8	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	57.8	58.14	99.4	60-160
4-BROMOFLUOROBENZENE	59.6	58.14	103	70-150
TOLUENE-D8	59.7	58.14	103	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 13:18
Sample ID: B7-15	Date Analyzed: 04/19/18 13:18
Lab Samp ID: D139-03	Dilution Factor: 0.93
Lab File ID: RDN188	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 13.5
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,1-TRICHLOROETHANE	ND	5.4	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,2-TRICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHENE	ND	5.4	1.1
1,1-DICHLOROPROPENE	ND	5.4	1.1
1,2,3-TRICHLOROBENZENE	ND	5.4	2.2
1,2,3-TRICHLOROPROPANE	ND	5.4	2.2
1,2,4-TRICHLOROBENZENE	ND	5.4	2.2
1,2,4-TRIMETHYLBENZENE	ND	5.4	1.1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.4	2.2
1,2-DIBROMOETHANE	ND	5.4	1.1
1,2-DICHLOROBENZENE	ND	5.4	1.1
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.4	1.1
1,3-DICHLOROBENZENE	ND	5.4	1.1
1,3-DICHLOROPROPANE	ND	5.4	1.1
1,4-DICHLOROBENZENE	ND	5.4	1.1
2,2-DICHLOROPROPANE	ND	5.4	2.2
2-BUTANONE	ND	11	5.4
2-CHLOROTOLUENE	ND	5.4	1.1
2-HEXANONE	ND	11	5.4
4-CHLOROTOLUENE	ND	5.4	1.1
ACETONE	6.4J	11	5.4
BENZENE	ND	5.4	1.1
BROMOBENZENE	ND	5.4	1.1
BROMOCHLOROMETHANE	ND	5.4	1.1
BROMODICHLOROMETHANE	ND	5.4	1.1
BROMOFORM	ND	5.4	2.2
BROMOMETHANE	ND	5.4	2.2
CARBON DISULFIDE	ND	5.4	1.1
CARBON TETRACHLORIDE	ND	5.4	1.1
CHLOROBENZENE	ND	5.4	1.1
CHLOROETHANE	ND	5.4	2.2
CHLOROFORM	ND	5.4	1.1
CHLOROMETHANE	ND	5.4	2.2
CIS-1,2-DICHLOROETHENE	ND	5.4	1.1
CIS-1,3-DICHLOROPROPENE	ND	5.4	1.1
DIBROMOCHLOROMETHANE	ND	5.4	1.1
DICHLORODIFLUOROMETHANE	ND	5.4	2.2
ETHYLBENZENE	ND	5.4	1.1
ISOPROPYL BENZENE	ND	5.4	1.1
M,P-XYLENES	ND	11	2.2
MIBK	ND	11	5.4
METHYLENE CHLORIDE	ND	5.4	2.2
MTBE	ND	5.4	1.1
NAPHTHALENE	ND	5.4	2.2
N-BUTYLBENZENE	ND	5.4	1.1
N-PROPYLBENZENE	ND	5.4	1.1
O-XYLENE	ND	5.4	1.1
P-ISOPROPYLTOLUENE	ND	5.4	1.1
SEC-BUTYLBENZENE	ND	5.4	1.1
STYRENE	ND	5.4	1.1
TERT-BUTYLBENZENE	ND	5.4	1.1
TETRACHLOROETHENE	ND	5.4	1.1
TOLUENE	ND	5.4	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.4	1.1
TRANS-1,3-DICHLOROPROPENE	ND	5.4	1.1
TRICHLOROETHENE	ND	5.4	1.1
TRICHLOROFLUOROMETHANE	ND	5.4	2.2
VINYL CHLORIDE	ND	5.4	2.2
VINYL ACETATE	ND	5.4	2.2
FREON113	ND	5.4	2.2
DIBROMOMETHANE	ND	5.4	1.1

SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	54.4	53.76	101	60-160
4-BROMOFLUOROBENZENE	55.3	53.76	103	70-150
TOLUENE-D8	55.2	53.76	103	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 13:47
Sample ID: B8-2	Date Analyzed: 04/19/18 13:47
Lab Samp ID: D139-05	Dilution Factor: 0.92
Lab File ID: RDN189	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 12.1
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.2	1.0
1,1,1-TRICHLOROETHANE	ND	5.2	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.2	1.0
1,1,2-TRICHLOROETHANE	ND	5.2	1.0
1,1-DICHLOROETHANE	ND	5.2	1.0
1,1-DICHLOROETHENE	ND	5.2	1.0
1,1-DICHLOROPROPENE	ND	5.2	1.0
1,2,3-TRICHLOROBENZENE	ND	5.2	2.1
1,2,3-TRICHLOROPROPANE	ND	5.2	5.1
1,2,4-TRICHLOROBENZENE	ND	5.2	2.1
1,2,4-TRIMETHYLBENZENE	ND	5.2	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.2	2.1
1,2-DIBROMOETHANE	ND	5.2	1.0
1,2-DICHLOROBENZENE	ND	5.2	1.0
1,2-DICHLOROETHANE	ND	5.2	1.0
1,2-DICHLOROPROPANE	ND	5.2	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.2	1.0
1,3-DICHLOROBENZENE	ND	5.2	1.0
1,3-DICHLOROPROPANE	ND	5.2	1.0
1,4-DICHLOROBENZENE	ND	5.2	1.0
2,2-DICHLOROPROPANE	ND	5.2	2.1
2-BUTANONE	6.7J	10	5.2
2-CHLOROTOLUENE	ND	5.2	1.0
2-HEXANONE	ND	10	5.2
4-CHLOROTOLUENE	ND	5.2	1.0
ACETONE	51	10	5.2
BENZENE	ND	5.2	1.0
BROMOBENZENE	ND	5.2	1.0
BROMOCHLOROMETHANE	ND	5.2	1.0
BROMODICHLOROMETHANE	ND	5.2	1.0
BROMOFORM	ND	5.2	2.1
BROMOMETHANE	2.2J	5.2	2.1
CARBON DISULFIDE	ND	5.2	1.0
CARBON TETRACHLORIDE	ND	5.2	1.0
CHLOROBENZENE	ND	5.2	1.0
CHLOROETHANE	ND	5.2	2.1
CHLOROFORM	ND	5.2	1.0
CHLOROMETHANE	ND	5.2	2.1
CIS-1,2-DICHLOROETHENE	ND	5.2	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.2	1.0
DIBROMOCHLOROMETHANE	ND	5.2	1.0
DICHLORODIFLUOROMETHANE	ND	5.2	2.1
ETHYLBENZENE	ND	5.2	1.0
ISOPROPYL BENZENE	ND	5.2	1.0
M,P-XYLENES	ND	10	2.1
MIBK	ND	10	5.2
METHYLENE CHLORIDE	ND	5.2	2.1
MTBE	ND	5.2	1.0
NAPHTHALENE	ND	5.2	2.1
N-BUTYLBENZENE	ND	5.2	1.0
N-PROPYLBENZENE	ND	5.2	1.0
O-XYLENE	ND	5.2	1.0
P-ISOPROPYLTOLUENE	ND	5.2	1.0
SEC-BUTYLBENZENE	ND	5.2	1.0
STYRENE	ND	5.2	1.0
TERT-BUTYLBENZENE	ND	5.2	1.0
TETRACHLOROETHENE	ND	5.2	1.0
TOLUENE	ND	5.2	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.2	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.2	1.0
TRICHLOROETHENE	ND	5.2	1.0
TRICHLOROFLUOROMETHANE	ND	5.2	2.1
VINYL CHLORIDE	ND	5.2	5.1
VINYL ACETATE	ND	5.2	2.1
FREON113	ND	5.2	2.1
DIBROMOMETHANE	ND	5.2	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	53.8	52.33	103	60-160
4-BROMOFLUOROBENZENE	54.1	52.33	103	70-150
TOLUENE-D8	54.0	52.33	103	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 14:15
Sample ID: B8-5	Date Analyzed: 04/19/18 14:15
Lab Samp ID: D139-06	Dilution Factor: 0.87
Lab File ID: RDN190	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 14.5
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.1	1.0
1,1,1-TRICHLOROETHANE	ND	5.1	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.1	1.0
1,1,2-TRICHLOROETHANE	ND	5.1	1.0
1,1-DICHLOROETHANE	ND	5.1	1.0
1,1-DICHLOROETHENE	ND	5.1	1.0
1,1-DICHLOROPROPENE	ND	5.1	1.0
1,2,3-TRICHLOROBENZENE	ND	5.1	2.0
1,2,3-TRICHLOROPROPANE	ND	5.1	5.0
1,2,4-TRICHLOROBENZENE	ND	5.1	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.1	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.1	2.0
1,2-DIBROMOETHANE	ND	5.1	1.0
1,2-DICHLOROBENZENE	ND	5.1	1.0
1,2-DICHLOROETHANE	ND	5.1	1.0
1,2-DICHLOROPROPANE	ND	5.1	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.1	1.0
1,3-DICHLOROBENZENE	ND	5.1	1.0
1,3-DICHLOROPROPANE	ND	5.1	1.0
1,4-DICHLOROBENZENE	ND	5.1	1.0
2,2-DICHLOROPROPANE	ND	5.1	2.0
2-BUTANONE	ND	10	5.1
2-CHLOROTOLUENE	ND	5.1	1.0
2-HEXANONE	ND	10	5.1
4-CHLOROTOLUENE	ND	5.1	1.0
ACETONE	14	10	5.1
BENZENE	ND	5.1	1.0
BROMOBENZENE	ND	5.1	1.0
BROMOCHLOROMETHANE	ND	5.1	1.0
BROMODICHLOROMETHANE	ND	5.1	1.0
BROMOFORM	ND	5.1	2.0
BROMOMETHANE	ND	5.1	2.0
CARBON DISULFIDE	ND	5.1	1.0
CARBON TETRACHLORIDE	ND	5.1	1.0
CHLOROBENZENE	ND	5.1	1.0
CHLOROETHANE	ND	5.1	2.0
CHLOROFORM	ND	5.1	1.0
CHLOROMETHANE	ND	5.1	2.0
CIS-1,2-DICHLOROETHENE	ND	5.1	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.1	1.0
DIBROMOCHLOROMETHANE	ND	5.1	1.0
DICHLORODIFLUOROMETHANE	ND	5.1	2.0
ETHYLBENZENE	ND	5.1	1.0
ISOPROPYL BENZENE	ND	5.1	1.0
M,P-XYLENES	ND	10	2.0
MIBK	ND	10	5.1
METHYLENE CHLORIDE	ND	5.1	2.0
MTBE	ND	5.1	1.0
NAPHTHALENE	ND	5.1	2.0
N-BUTYLBENZENE	ND	5.1	1.0
N-PROPYLBENZENE	ND	5.1	1.0
O-XYLENE	ND	5.1	1.0
P-ISOPROPYLTOLUENE	ND	5.1	1.0
SEC-BUTYLBENZENE	ND	5.1	1.0
STYRENE	ND	5.1	1.0
TERT-BUTYLBENZENE	ND	5.1	1.0
TETRACHLOROETHENE	ND	5.1	1.0
TOLUENE	ND	5.1	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.1	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.1	1.0
TRICHLOROETHENE	ND	5.1	1.0
TRICHLOROFLUOROMETHANE	ND	5.1	2.0
VINYL CHLORIDE	ND	5.1	2.0
VINYL ACETATE	ND	5.1	2.0
FREON113	ND	5.1	2.0
DIBROMOMETHANE	ND	5.1	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	52.7	50.88	104	60-160
4-BROMOFLUOROBENZENE	51.8	50.88	102	70-150
TOLUENE-D8	52.2	50.88	103	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 14:43
Sample ID: B8-10	Date Analyzed: 04/19/18 14:43
Lab Samp ID: D139-07	Dilution Factor: 0.92
Lab File ID: RDN191	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 22.4
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.9	1.2
1,1,1-TRICHLOROETHANE	ND	5.9	1.2
1,1,2,2-TETRACHLOROETHANE	ND	5.9	1.2
1,1,2-TRICHLOROETHANE	ND	5.9	1.2
1,1-DICHLOROETHANE	ND	5.9	1.2
1,1-DICHLOROETHENE	ND	5.9	1.2
1,1-DICHLOROPROPENE	ND	5.9	1.2
1,2,3-TRICHLOROBENZENE	ND	5.9	2.4
1,2,3-TRICHLOROPROPANE	ND	5.9	2.4
1,2,4-TRICHLOROBENZENE	ND	5.9	2.4
1,2,4-TRIMETHYLBENZENE	ND	5.9	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.9	2.4
1,2-DIBROMOETHANE	ND	5.9	1.2
1,2-DICHLOROBENZENE	ND	5.9	1.2
1,2-DICHLOROETHANE	ND	5.9	1.2
1,2-DICHLOROPROPANE	ND	5.9	1.2
1,3,5-TRIMETHYLBENZENE	ND	5.9	1.2
1,3-DICHLOROBENZENE	ND	5.9	1.2
1,3-DICHLOROPROPANE	ND	5.9	1.2
1,4-DICHLOROBENZENE	ND	5.9	1.2
2,2-DICHLOROPROPANE	ND	5.9	2.4
2-BUTANONE	ND	12	5.9
2-CHLOROTOLUENE	ND	5.9	1.2
2-HEXANONE	ND	12	5.9
4-CHLOROTOLUENE	ND	5.9	1.2
ACETONE	38	12	5.9
BENZENE	ND	5.9	1.2
BROMOBENZENE	ND	5.9	1.2
BROMOCHLOROMETHANE	ND	5.9	1.2
BROMODICHLOROMETHANE	ND	5.9	1.2
BROMOFORM	ND	5.9	2.4
BROMOMETHANE	ND	5.9	2.4
CARBON DISULFIDE	ND	5.9	1.2
CARBON TETRACHLORIDE	ND	5.9	1.2
CHLOROBENZENE	ND	5.9	1.2
CHLOROETHANE	ND	5.9	2.4
CHLOROFORM	ND	5.9	1.2
CHLOROMETHANE	ND	5.9	2.4
CIS-1,2-DICHLOROETHENE	ND	5.9	1.2
CIS-1,3-DICHLOROPROPENE	ND	5.9	1.2
DIBROMOCHLOROMETHANE	ND	5.9	1.2
DICHLORODIFLUOROMETHANE	ND	5.9	2.4
ETHYLBENZENE	ND	5.9	1.2
ISOPROPYL BENZENE	ND	5.9	1.2
M,P-XYLENES	ND	12	2.4
MIBK	ND	12	5.9
METHYLENE CHLORIDE	ND	5.9	2.4
MTBE	ND	5.9	1.2
NAPHTHALENE	ND	5.9	2.4
N-BUTYLBENZENE	ND	5.9	1.2
N-PROPYLBENZENE	ND	5.9	1.2
O-XYLENE	ND	5.9	1.2
P-ISOPROPYLTOLUENE	ND	5.9	1.2
SEC-BUTYLBENZENE	ND	5.9	1.2
STYRENE	ND	5.9	1.2
TERT-BUTYLBENZENE	ND	5.9	1.2
TETRACHLOROETHENE	ND	5.9	1.2
TOLUENE	ND	5.9	1.2
TRANS-1,2-DICHLOROETHENE	ND	5.9	1.2
TRANS-1,3-DICHLOROPROPENE	ND	5.9	1.2
TRICHLOROETHENE	ND	5.9	1.2
TRICHLOROFLUOROMETHANE	ND	5.9	2.4
VINYL CHLORIDE	ND	5.9	2.4
VINYL ACETATE	ND	5.9	2.4
FREON113	ND	5.9	2.4
DIBROMOMETHANE	ND	5.9	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	61.2	59.28	103	60-160
4-BROMOFLUOROBENZENE	60.5	59.28	102	70-150
TOLUENE-D8	61.2	59.28	103	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 15:12
Sample ID: B9-2	Date Analyzed: 04/19/18 15:12
Lab Samp ID: D139-09	Dilution Factor: 1.07
Lab File ID: RDN192	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 4.6
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.6	1.1
1,1,1-TRICHLOROETHANE	ND	5.6	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.6	1.1
1,1,2-TRICHLOROETHANE	ND	5.6	1.1
1,1-DICHLOROETHANE	ND	5.6	1.1
1,1-DICHLOROETHENE	ND	5.6	1.1
1,1-DICHLOROPROPENE	ND	5.6	1.1
1,2,3-TRICHLOROBENZENE	ND	5.6	2.2
1,2,3-TRICHLOROPROPANE	ND	5.6	2.2
1,2,4-TRICHLOROBENZENE	ND	5.6	2.2
1,2,4-TRIMETHYLBENZENE	1.4J	5.6	1.1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.6	2.2
1,2-DIBROMOETHANE	ND	5.6	1.1
1,2-DICHLOROBENZENE	ND	5.6	1.1
1,2-DICHLOROETHANE	ND	5.6	1.1
1,2-DICHLOROPROPANE	ND	5.6	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.6	1.1
1,3-DICHLOROBENZENE	ND	5.6	1.1
1,3-DICHLOROPROPANE	ND	5.6	1.1
1,4-DICHLOROBENZENE	ND	5.6	1.1
2,2-DICHLOROPROPANE	ND	5.6	2.2
2-BUTANONE	7.9J	11	5.6
2-CHLOROTOLUENE	ND	5.6	1.1
2-HEXANONE	ND	11	5.6
4-CHLOROTOLUENE	ND	5.6	1.1
ACETONE	68	11	5.6
BENZENE	1.9J	5.6	1.1
BROMOBENZENE	ND	5.6	1.1
BROMOCHLOROMETHANE	ND	5.6	1.1
BROMODICHLOROMETHANE	ND	5.6	1.1
BROMOFORM	ND	5.6	2.2
BROMOMETHANE	ND	5.6	2.2
CARBON DISULFIDE	3.7J	5.6	1.1
CARBON TETRACHLORIDE	ND	5.6	1.1
CHLOROBENZENE	ND	5.6	1.1
CHLOROETHANE	ND	5.6	2.2
CHLOROFORM	ND	5.6	1.1
CHLOROMETHANE	ND	5.6	2.2
CIS-1,2-DICHLOROETHENE	ND	5.6	1.1
CIS-1,3-DICHLOROPROPENE	ND	5.6	1.1
DIBROMOCHLOROMETHANE	ND	5.6	1.1
DICHLORODIFLUOROMETHANE	ND	5.6	2.2
ETHYLBENZENE	ND	5.6	1.1
ISOPROPYL BENZENE	ND	5.6	1.1
M,P-XYLENES	2.8J	11	2.2
MIBK	ND	11	5.6
METHYLENE CHLORIDE	ND	5.6	2.2
MTBE	ND	5.6	1.1
NAPHTHALENE	ND	5.6	2.2
N-BUTYLBENZENE	ND	5.6	1.1
N-PROPYLBENZENE	ND	5.6	1.1
O-XYLENE	ND	5.6	1.1
P-ISOPROPYLTOLUENE	ND	5.6	1.1
SEC-BUTYLBENZENE	ND	5.6	1.1
STYRENE	ND	5.6	1.1
TERT-BUTYLBENZENE	ND	5.6	1.1
TETRACHLOROETHENE	ND	5.6	1.1
TOLUENE	2.4J	5.6	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.6	1.1
TRANS-1,3-DICHLOROPROPENE	ND	5.6	1.1
TRICHLOROETHENE	ND	5.6	1.1
TRICHLOROFLUOROMETHANE	ND	5.6	2.2
VINYL CHLORIDE	ND	5.6	2.2
VINYL ACETATE	ND	5.6	2.2
FREON113	ND	5.6	2.2
DIBROMOMETHANE	ND	5.6	1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	60.3	56.08	108	60-160
4-BROMOFLUOROBENZENE	67.8	56.08	121	70-150
TOLUENE-D8	61.6	56.08	110	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 15:41
Sample ID: B14-2	Date Analyzed: 04/19/18 15:41
Lab Samp ID: D139-12	Dilution Factor: 0.89
Lab File ID: RDN193	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 6.8
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.8	0.95
1,1,1-TRICHLOROETHANE	ND	4.8	0.95
1,1,2,2-TETRACHLOROETHANE	ND	4.8	0.95
1,1,2-TRICHLOROETHANE	ND	4.8	0.95
1,1-DICHLOROETHANE	ND	4.8	0.95
1,1-DICHLOROETHENE	ND	4.8	0.95
1,1-DICHLOROPROPENE	ND	4.8	0.95
1,2,3-TRICHLOROBENZENE	ND	4.8	1.9
1,2,3-TRICHLOROPROPANE	ND	4.8	1.9
1,2,4-TRICHLOROBENZENE	ND	4.8	1.9
1,2,4-TRIMETHYLBENZENE	ND	4.8	0.95
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.8	1.9
1,2-DIBROMOETHANE	ND	4.8	0.95
1,2-DICHLOROBENZENE	ND	4.8	0.95
1,2-DICHLOROETHANE	ND	4.8	0.95
1,2-DICHLOROPROPANE	ND	4.8	0.95
1,3,5-TRIMETHYLBENZENE	ND	4.8	0.95
1,3-DICHLOROBENZENE	ND	4.8	0.95
1,3-DICHLOROPROPANE	ND	4.8	0.95
1,4-DICHLOROBENZENE	ND	4.8	0.95
2,2-DICHLOROPROPANE	ND	4.8	1.9
2-BUTANONE	6.7J	9.5	4.8
2-CHLOROTOLUENE	ND	4.8	0.95
2-HEXANONE	ND	9.5	4.8
4-CHLOROTOLUENE	ND	4.8	0.95
ACETONE	44	9.5	4.8
BENZENE	3.0J	4.8	0.95
BROMOBENZENE	ND	4.8	0.95
BROMOCHLOROMETHANE	ND	4.8	0.95
BROMODICHLOROMETHANE	ND	4.8	0.95
BROMOFORM	ND	4.8	1.9
BROMOMETHANE	2.3J	4.8	1.9
CARBON DISULFIDE	1.2J	4.8	0.95
CARBON TETRACHLORIDE	ND	4.8	0.95
CHLOROBENZENE	ND	4.8	0.95
CHLOROETHANE	ND	4.8	1.9
CHLOROFORM	ND	4.8	0.95
CHLOROMETHANE	ND	4.8	1.9
CIS-1,2-DICHLOROETHENE	ND	4.8	0.95
CIS-1,3-DICHLOROPROPENE	ND	4.8	0.95
DIBROMOCHLOROMETHANE	ND	4.8	0.95
DICHLORODIFLUOROMETHANE	ND	4.8	1.9
ETHYLBENZENE	ND	4.8	0.95
ISOPROPYL BENZENE	ND	4.8	0.95
M,P-XYLENES	2.4J	9.5	1.9
MIBK	ND	9.5	4.8
METHYLENE CHLORIDE	ND	4.8	1.9
MTBE	ND	4.8	0.95
NAPHTHALENE	ND	4.8	1.9
N-BUTYLBENZENE	ND	4.8	0.95
N-PROPYLBENZENE	ND	4.8	0.95
O-XYLENE	1.0J	4.8	0.95
P-ISOPROPYLTOLUENE	ND	4.8	0.95
SEC-BUTYLBENZENE	ND	4.8	0.95
STYRENE	ND	4.8	0.95
TERT-BUTYLBENZENE	ND	4.8	0.95
TETRACHLOROETHENE	ND	4.8	0.95
TOLUENE	4.7J	4.8	0.95
TRANS-1,2-DICHLOROETHENE	ND	4.8	0.95
TRANS-1,3-DICHLOROPROPENE	ND	4.8	0.95
TRICHLOROETHENE	ND	4.8	0.95
TRICHLOROFLUOROMETHANE	ND	4.8	1.9
VINYL CHLORIDE	ND	4.8	1.9
VINYL ACETATE	ND	4.8	1.9
FREON113	ND	4.8	1.9
DIBROMOMETHANE	ND	4.8	0.95

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	53.1	47.75	111	60-160
4-BROMOFLUOROBENZENE	61.4	47.75	129	70-150
TOLUENE-D8	55.2	47.75	116	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 16:09
Sample ID: B14-5	Date Analyzed: 04/19/18 16:09
Lab Samp ID: D139-13	Dilution Factor: 0.75
Lab File ID: RDN194	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 12.0
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.3	0.85
1,1,1-TRICHLOROETHANE	ND	4.3	0.85
1,1,2,2-TETRACHLOROETHANE	ND	4.3	0.85
1,1,2-TRICHLOROETHANE	ND	4.3	0.85
1,1-DICHLOROETHANE	ND	4.3	0.85
1,1-DICHLOROETHENE	ND	4.3	0.85
1,1-DICHLOROPROPENE	ND	4.3	0.85
1,2,3-TRICHLOROBENZENE	ND	4.3	1.7
1,2,3-TRICHLOROPROPANE	ND	4.3	1.7
1,2,4-TRICHLOROBENZENE	ND	4.3	1.7
1,2,4-TRIMETHYLBENZENE	ND	4.3	0.85
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.3	1.7
1,2-DIBROMOETHANE	ND	4.3	0.85
1,2-DICHLOROBENZENE	ND	4.3	0.85
1,2-DICHLOROETHANE	ND	4.3	0.85
1,2-DICHLOROPROPANE	ND	4.3	0.85
1,3,5-TRIMETHYLBENZENE	ND	4.3	0.85
1,3-DICHLOROBENZENE	ND	4.3	0.85
1,3-DICHLOROPROPANE	ND	4.3	0.85
1,4-DICHLOROBENZENE	ND	4.3	0.85
2,2-DICHLOROPROPANE	ND	4.3	1.7
2-BUTANONE	ND	8.5	4.3
2-CHLOROTOLUENE	ND	4.3	0.85
2-HEXANONE	ND	8.5	4.3
4-CHLOROTOLUENE	ND	4.3	0.85
ACETONE	26	8.5	4.3
BENZENE	ND	4.3	0.85
BROMOBENZENE	ND	4.3	0.85
BROMOCHLOROMETHANE	ND	4.3	0.85
BROMODICHLOROMETHANE	ND	4.3	0.85
BROMOFORM	ND	4.3	1.7
BROMOMETHANE	ND	4.3	1.7
CARBON DISULFIDE	ND	4.3	0.85
CARBON TETRACHLORIDE	ND	4.3	0.85
CHLOROBENZENE	ND	4.3	0.85
CHLOROETHANE	ND	4.3	1.7
CHLOROFORM	ND	4.3	0.85
CHLOROMETHANE	ND	4.3	1.7
CIS-1,2-DICHLOROETHENE	ND	4.3	0.85
CIS-1,3-DICHLOROPROPENE	ND	4.3	0.85
DIBROMOCHLOROMETHANE	ND	4.3	0.85
DICHLORODIFLUOROMETHANE	ND	4.3	1.7
ETHYLBENZENE	ND	4.3	0.85
ISOPROPYL BENZENE	ND	4.3	0.85
M,P-XYLENES	ND	8.5	1.7
MIBK	ND	8.5	4.3
METHYLENE CHLORIDE	ND	4.3	1.7
MTBE	ND	4.3	0.85
NAPHTHALENE	ND	4.3	1.7
N-BUTYLBENZENE	ND	4.3	0.85
N-PROPYLBENZENE	ND	4.3	0.85
O-XYLENE	ND	4.3	0.85
P-ISOPROPYLTOLUENE	ND	4.3	0.85
SEC-BUTYLBENZENE	ND	4.3	0.85
STYRENE	ND	4.3	0.85
TERT-BUTYLBENZENE	ND	4.3	0.85
TETRACHLOROETHENE	ND	4.3	0.85
TOLUENE	ND	4.3	0.85
TRANS-1,2-DICHLOROETHENE	ND	4.3	0.85
TRANS-1,3-DICHLOROPROPENE	ND	4.3	0.85
TRICHLOROETHENE	ND	4.3	0.85
TRICHLOROFLUOROMETHANE	ND	4.3	1.7
VINYL CHLORIDE	ND	4.3	1.7
VINYL ACETATE	ND	4.3	1.7
FREON113	ND	4.3	1.7
DIBROMOMETHANE	ND	4.3	0.85

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	46.8	42.61	110	60-160
4-BROMOFLUOROBENZENE	47.9	42.61	112	70-150
TOLUENE-D8	44.5	42.61	104	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 16:38
Sample ID: B14-10	Date Analyzed: 04/19/18 16:38
Lab Samp ID: D139-14	Dilution Factor: 0.96
Lab File ID: RDN195	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 11.8
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,1-TRICHLOROETHANE	ND	5.4	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,2-TRICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHENE	ND	5.4	1.1
1,1-DICHLOROPROPENE	ND	5.4	1.1
1,2,3-TRICHLOROBENZENE	ND	5.4	2.2
1,2,3-TRICHLOROPROPANE	ND	5.4	2.2
1,2,4-TRICHLOROBENZENE	ND	5.4	2.2
1,2,4-TRIMETHYLBENZENE	ND	5.4	1.1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.4	2.2
1,2-DIBROMOETHANE	ND	5.4	1.1
1,2-DICHLOROBENZENE	ND	5.4	1.1
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.4	1.1
1,3-DICHLOROBENZENE	ND	5.4	1.1
1,3-DICHLOROPROPANE	ND	5.4	1.1
1,4-DICHLOROBENZENE	ND	5.4	1.1
2,2-DICHLOROPROPANE	ND	5.4	2.2
2-BUTANONE	ND	11	5.4
2-CHLOROTOLUENE	ND	5.4	1.1
2-HEXANONE	ND	11	5.4
4-CHLOROTOLUENE	ND	5.4	1.1
ACETONE	11	11	5.4
BENZENE	ND	5.4	1.1
BROMOBENZENE	ND	5.4	1.1
BROMOCHLOROMETHANE	ND	5.4	1.1
BROMODICHLOROMETHANE	ND	5.4	1.1
BROMOFORM	ND	5.4	2.2
BROMOMETHANE	ND	5.4	2.2
CARBON DISULFIDE	ND	5.4	1.1
CARBON TETRACHLORIDE	ND	5.4	1.1
CHLOROBENZENE	ND	5.4	1.1
CHLOROETHANE	ND	5.4	2.2
CHLOROFORM	ND	5.4	1.1
CHLOROMETHANE	ND	5.4	2.2
CIS-1,2-DICHLOROETHENE	ND	5.4	1.1
CIS-1,3-DICHLOROPROPENE	ND	5.4	1.1
DIBROMOCHLOROMETHANE	ND	5.4	1.1
DICHLORODIFLUOROMETHANE	ND	5.4	2.2
ETHYLBENZENE	ND	5.4	1.1
ISOPROPYL BENZENE	ND	5.4	1.1
M,P-XYLENES	ND	11	2.2
MIBK	ND	11	5.4
METHYLENE CHLORIDE	ND	5.4	2.2
MTBE	ND	5.4	1.1
NAPHTHALENE	ND	5.4	2.2
N-BUTYLBENZENE	ND	5.4	1.1
N-PROPYLBENZENE	ND	5.4	1.1
O-XYLENE	ND	5.4	1.1
P-ISOPROPYLTOLUENE	ND	5.4	1.1
SEC-BUTYLBENZENE	ND	5.4	1.1
STYRENE	ND	5.4	1.1
TERT-BUTYLBENZENE	ND	5.4	1.1
TETRACHLOROETHENE	ND	5.4	1.1
TOLUENE	ND	5.4	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.4	1.1
TRANS-1,3-DICHLOROPROPENE	ND	5.4	1.1
TRICHLOROETHENE	ND	5.4	1.1
TRICHLOROFLUOROMETHANE	ND	5.4	2.2
VINYL CHLORIDE	ND	5.4	2.2
VINYL ACETATE	ND	5.4	2.2
FREON113	ND	5.4	2.2
DIBROMOMETHANE	ND	5.4	1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	59.2	54.42	109	60-160
4-BROMOFLUOROBENZENE	55.1	54.42	101	70-150
TOLUENE-D8	55.5	54.42	102	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 17:06
Sample ID: B14-15	Date Analyzed: 04/19/18 17:06
Lab Samp ID: D139-15	Dilution Factor: 0.91
Lab File ID: RDN196	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 13.5
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.3	1.1
1,1,1-TRICHLOROETHANE	ND	5.3	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.3	1.1
1,1,2-TRICHLOROETHANE	ND	5.3	1.1
1,1-DICHLOROETHANE	ND	5.3	1.1
1,1-DICHLOROETHENE	ND	5.3	1.1
1,1-DICHLOROPROPENE	ND	5.3	1.1
1,2,3-TRICHLOROBENZENE	ND	5.3	2.1
1,2,3-TRICHLOROPROPANE	ND	5.3	2.1
1,2,4-TRICHLOROBENZENE	ND	5.3	2.1
1,2,4-TRIMETHYLBENZENE	ND	5.3	1.1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.3	2.1
1,2-DIBROMOETHANE	ND	5.3	1.1
1,2-DICHLOROBENZENE	ND	5.3	1.1
1,2-DICHLOROETHANE	ND	5.3	1.1
1,2-DICHLOROPROPANE	ND	5.3	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.3	1.1
1,3-DICHLOROBENZENE	ND	5.3	1.1
1,3-DICHLOROPROPANE	ND	5.3	1.1
1,4-DICHLOROBENZENE	ND	5.3	1.1
2,2-DICHLOROPROPANE	ND	5.3	2.1
2-BUTANONE	ND	11	5.3
2-CHLOROTOLUENE	ND	5.3	1.1
2-HEXANONE	ND	11	5.3
4-CHLOROTOLUENE	ND	5.3	1.1
ACETONE	8.4J	11	5.3
BENZENE	ND	5.3	1.1
BROMOBENZENE	ND	5.3	1.1
BROMOCHLOROMETHANE	ND	5.3	1.1
BROMODICHLOROMETHANE	ND	5.3	1.1
BROMOFORM	ND	5.3	2.1
BROMOMETHANE	ND	5.3	2.1
CARBON DISULFIDE	ND	5.3	1.1
CARBON TETRACHLORIDE	ND	5.3	1.1
CHLOROBENZENE	ND	5.3	1.1
CHLOROETHANE	ND	5.3	2.1
CHLOROFORM	ND	5.3	1.1
CHLOROMETHANE	ND	5.3	2.1
CIS-1,2-DICHLOROETHENE	ND	5.3	1.1
CIS-1,3-DICHLOROPROPENE	ND	5.3	1.1
DIBROMOCHLOROMETHANE	ND	5.3	1.1
DICHLORODIFLUOROMETHANE	ND	5.3	2.1
ETHYLBENZENE	ND	5.3	1.1
ISOPROPYL BENZENE	ND	5.3	1.1
M,P-XYLENES	ND	11	2.1
MIBK	ND	11	5.3
METHYLENE CHLORIDE	ND	5.3	2.1
MTBE	ND	5.3	1.1
NAPHTHALENE	ND	5.3	2.1
N-BUTYLBENZENE	ND	5.3	1.1
N-PROPYLBENZENE	ND	5.3	1.1
O-XYLENE	ND	5.3	1.1
P-ISOPROPYLTOLUENE	ND	5.3	1.1
SEC-BUTYLBENZENE	ND	5.3	1.1
STYRENE	ND	5.3	1.1
TERT-BUTYLBENZENE	ND	5.3	1.1
TETRACHLOROETHENE	ND	5.3	1.1
TOLUENE	ND	5.3	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.3	1.1
TRANS-1,3-DICHLOROPROPENE	ND	5.3	1.1
TRICHLOROETHENE	ND	5.3	1.1
TRICHLOROFLUOROMETHANE	ND	5.3	2.1
VINYL CHLORIDE	ND	5.3	2.1
VINYL ACETATE	ND	5.3	2.1
FREON113	ND	5.3	2.1
DIBROMOMETHANE	ND	5.3	1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	56.5	52.60	107	60-160
4-BROMOFLUOROBENZENE	53.8	52.60	102	70-150
TOLUENE-D8	53.8	52.60	102	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 17:35
Sample ID: B15-2	Date Analyzed: 04/19/18 17:35
Lab Samp ID: D139-17	Dilution Factor: 0.96
Lab File ID: RDN197	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 4.6
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	1.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	8.9J	10	5.0
2-CHLOROTOLUENE	ND	5.0	1.0
2-HEXANONE	ND	10	5.0
4-CHLOROTOLUENE	ND	5.0	1.0
ACETONE	71	10	5.0
BENZENE	5.6	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	3.6J	5.0	2.0
CARBON DISULFIDE	2.7J	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	1.3J	5.0	1.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENES	2.9J	10	2.0
MIBK	ND	10	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	1.0
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	1.1J	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	6.8	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	57.3	50.31	114	60-160
4-BROMOFLUOROBENZENE	59.2	50.31	118	70-150
TOLUENE-D8	54.6	50.31	109	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 11:53
Sample ID: B15-5	Date Analyzed: 04/19/18 11:53
Lab Samp ID: D139-18	Dilution Factor: 0.92
Lab File ID: RDN185	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 20.8
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.8	1.2
1,1,1-TRICHLOROETHANE	ND	5.8	1.2
1,1,2,2-TETRACHLOROETHANE	ND	5.8	1.2
1,1,2-TRICHLOROETHANE	ND	5.8	1.2
1,1-DICHLOROETHANE	ND	5.8	1.2
1,1-DICHLOROETHENE	ND	5.8	1.2
1,1-DICHLOROPROPENE	ND	5.8	1.2
1,2,3-TRICHLOROBENZENE	ND	5.8	2.3
1,2,3-TRICHLOROPROPANE	ND	5.8	2.3
1,2,4-TRICHLOROBENZENE	ND	5.8	2.3
1,2,4-TRIMETHYLBENZENE	ND	5.8	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.8	2.3
1,2-DIBROMOETHANE	ND	5.8	1.2
1,2-DICHLOROBENZENE	ND	5.8	1.2
1,2-DICHLOROETHANE	ND	5.8	1.2
1,2-DICHLOROPROPANE	ND	5.8	1.2
1,3,5-TRIMETHYLBENZENE	ND	5.8	1.2
1,3-DICHLOROBENZENE	ND	5.8	1.2
1,3-DICHLOROPROPANE	ND	5.8	1.2
1,4-DICHLOROBENZENE	ND	5.8	1.2
2,2-DICHLOROPROPANE	ND	5.8	2.3
2-BUTANONE	ND	12	5.8
2-CHLOROTOLUENE	ND	5.8	1.2
2-HEXANONE	ND	12	5.8
4-CHLOROTOLUENE	ND	5.8	1.2
ACETONE	39	12	5.8
BENZENE	ND	5.8	1.2
BROMOBENZENE	ND	5.8	1.2
BROMOCHLOROMETHANE	ND	5.8	1.2
BROMODICHLOROMETHANE	ND	5.8	1.2
BROMOFORM	ND	5.8	2.3
BROMOMETHANE	ND	5.8	2.3
CARBON DISULFIDE	ND	5.8	1.2
CARBON TETRACHLORIDE	ND	5.8	1.2
CHLOROBENZENE	ND	5.8	1.2
CHLOROETHANE	ND	5.8	2.3
CHLOROFORM	ND	5.8	1.2
CHLOROMETHANE	ND	5.8	2.3
CIS-1,2-DICHLOROETHENE	ND	5.8	1.2
CIS-1,3-DICHLOROPROPENE	ND	5.8	1.2
DIBROMOCHLOROMETHANE	ND	5.8	1.2
DICHLORODIFLUOROMETHANE	ND	5.8	2.3
ETHYLBENZENE	ND	5.8	1.2
ISOPROPYL BENZENE	ND	5.8	1.2
M,P-XYLENES	ND	12	2.3
MIBK	ND	12	5.8
METHYLENE CHLORIDE	ND	5.8	2.3
MTBE	ND	5.8	1.2
NAPHTHALENE	ND	5.8	2.3
N-BUTYLBENZENE	ND	5.8	1.2
N-PROPYLBENZENE	ND	5.8	1.2
O-XYLENE	ND	5.8	1.2
P-ISOPROPYLTOLUENE	ND	5.8	1.2
SEC-BUTYLBENZENE	ND	5.8	1.2
STYRENE	ND	5.8	1.2
TERT-BUTYLBENZENE	ND	5.8	1.2
TETRACHLOROETHENE	ND	5.8	1.2
TOLUENE	ND	5.8	1.2
TRANS-1,2-DICHLOROETHENE	ND	5.8	1.2
TRANS-1,3-DICHLOROPROPENE	ND	5.8	1.2
TRICHLOROETHENE	ND	5.8	1.2
TRICHLOROFLUOROMETHANE	ND	5.8	2.3
VINYL CHLORIDE	ND	5.8	2.3
VINYL ACETATE	ND	5.8	2.3
FREON113	ND	5.8	2.3
DIBROMOMETHANE	ND	5.8	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	56.4	58.08	97.2	60-160
4-BROMOFLUOROBENZENE	59.6	58.08	103	70-150
TOLUENE-D8	60.6	58.08	104	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 18:03
Sample ID: B14-2D	Date Analyzed: 04/19/18 18:03
Lab Samp ID: D139-19	Dilution Factor: 0.89
Lab File ID: RDN198	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 6.4
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.8	0.95
1,1,1-TRICHLOROETHANE	ND	4.8	0.95
1,1,2,2-TETRACHLOROETHANE	ND	4.8	0.95
1,1,2-TRICHLOROETHANE	ND	4.8	0.95
1,1-DICHLOROETHANE	ND	4.8	0.95
1,1-DICHLOROETHENE	ND	4.8	0.95
1,1-DICHLOROPROPENE	ND	4.8	0.95
1,2,3-TRICHLOROBENZENE	ND	4.8	1.9
1,2,3-TRICHLOROPROPANE	ND	4.8	1.9
1,2,4-TRICHLOROBENZENE	ND	4.8	1.9
1,2,4-TRIMETHYLBENZENE	ND	4.8	0.95
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.8	1.9
1,2-DIBROMOETHANE	ND	4.8	0.95
1,2-DICHLOROBENZENE	ND	4.8	0.95
1,2-DICHLOROETHANE	ND	4.8	0.95
1,2-DICHLOROPROPANE	ND	4.8	0.95
1,3,5-TRIMETHYLBENZENE	ND	4.8	0.95
1,3-DICHLOROBENZENE	ND	4.8	0.95
1,3-DICHLOROPROPANE	ND	4.8	0.95
1,4-DICHLOROBENZENE	ND	4.8	0.95
2,2-DICHLOROPROPANE	ND	4.8	1.9
2-BUTANONE	5.9J	9.5	4.8
2-CHLOROTOLUENE	ND	4.8	0.95
2-HEXANONE	ND	9.5	4.8
4-CHLOROTOLUENE	ND	4.8	0.95
ACETONE	41	9.5	4.8
BENZENE	2.1J	4.8	0.95
BROMOBENZENE	ND	4.8	0.95
BROMOCHLOROMETHANE	ND	4.8	0.95
BROMODICHLOROMETHANE	ND	4.8	0.95
BROMOFORM	ND	4.8	1.9
BROMOMETHANE	ND	4.8	1.9
CARBON DISULFIDE	1.9J	4.8	0.95
CARBON TETRACHLORIDE	ND	4.8	0.95
CHLOROBENZENE	ND	4.8	0.95
CHLOROETHANE	ND	4.8	1.9
CHLOROFORM	ND	4.8	0.95
CHLOROMETHANE	ND	4.8	1.9
CIS-1,2-DICHLOROETHENE	ND	4.8	0.95
CIS-1,3-DICHLOROPROPENE	ND	4.8	0.95
DIBROMOCHLOROMETHANE	ND	4.8	0.95
DICHLORODIFLUOROMETHANE	ND	4.8	1.9
ETHYLBENZENE	ND	4.8	0.95
ISOPROPYL BENZENE	ND	4.8	0.95
M,P-XYLENES	ND	9.5	1.9
MIBK	ND	9.5	4.8
METHYLENE CHLORIDE	ND	4.8	1.9
MTBE	ND	4.8	0.95
NAPHTHALENE	ND	4.8	1.9
N-BUTYLBENZENE	ND	4.8	0.95
N-PROPYLBENZENE	ND	4.8	0.95
O-XYLENE	ND	4.8	0.95
P-ISOPROPYLTOLUENE	ND	4.8	0.95
SEC-BUTYLBENZENE	ND	4.8	0.95
STYRENE	ND	4.8	0.95
TERT-BUTYLBENZENE	ND	4.8	0.95
TETRACHLOROETHENE	ND	4.8	0.95
TOLUENE	3.3J	4.8	0.95
TRANS-1,2-DICHLOROETHENE	ND	4.8	0.95
TRANS-1,3-DICHLOROPROPENE	ND	4.8	0.95
TRICHLOROETHENE	ND	4.8	0.95
TRICHLOROFLUOROMETHANE	ND	4.8	1.9
VINYL CHLORIDE	ND	4.8	1.9
VINYL ACETATE	ND	4.8	1.9
FREON113	ND	4.8	1.9
DIBROMOMETHANE	ND	4.8	0.95

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	53.8	47.54	113	60-160
4-BROMOFLUOROBENZENE	58.4	47.54	123	70-150
TOLUENE-D8	53.2	47.54	112	70-140

QC SUMMARIES

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/19/18
Batch No. : 18D139	Date Extracted: 04/19/18 11:24
Sample ID: MBLK1S	Date Analyzed: 04/19/18 11:24
Lab Samp ID: VSF4D11B	Dilution Factor: 1
Lab File ID: RDN184	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : NA
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	1.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-CHLOROTOLUENE	ND	5.0	1.0
2-HEXANONE	ND	10	5.0
4-CHLOROTOLUENE	ND	5.0	1.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENES	ND	10	2.0
MIBK	ND	10	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	1.0
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	49.6	50.00	99.2	70-140
4-BROMOFLUOROBENZENE	50.8	50.00	102	70-130
TOLUENE-D8	51.4	50.00	103	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D139
METHOD: SW 5035A/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VSF4D11B	VSF4D11L	VSF4D11C		
LAB FILE ID:	RDN184	RDN181	RDN182		
DATE EXTRACTED:	04/19/1811:24	04/19/1809:58	04/19/1810:27	DATE COLLECTED:	NA
DATE ANALYZED:	04/19/1811:24	04/19/1809:58	04/19/1810:27	DATE RECEIVED:	04/19/18
PREP. BATCH:	VSF4D11	VSF4D11	VSF4D11		
CALIB. REF:	RDN081	RDN081	RDN081		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	50.0	48.1	96	50.0	47.5	95	1	60-130	30
Benzene	ND	50.0	50.3	101	50.0	49.9	100	1	70-130	30
Chlorobenzene	ND	50.0	47.8	96	50.0	47.8	96	0	70-130	30
Toluene	ND	50.0	47.7	95	50.0	47.7	95	0	70-130	50
Trichloroethene	ND	50.0	49.7	99	50.0	49.6	99	0	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	48.6	97	50.0	49.3	99	70-140
4-Bromofluorobenzene	50.0	50.4	101	50.0	51.1	102	70-130
Toluene-d8	50.0	51.0	102	50.0	51.0	102	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 18D139

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D139

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

A total of nineteen (19) soil samples were received on 04/17/18 to be analyzed for Semi Volatile Organics by GC/MS in accordance with Method 3550B/8270C SIM and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. There were two (2) CCVs associated with this SDG: CCV(Datafile ID:REJ123) and CCV(Datafile ID:REJ159). All calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. SVD040SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. All analytes were within LCS limits in SVD040SL/SVD040SC except for percent recovery for Chrysene was not within LCS QC limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. D139-01M/S - all analytes were within MS QC limits. Refer to Matrix QC summary form for details.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter. Manual integration was applied to the following samples because of improper integration.

- Benzo(b)fluoranthene in D139-04 and -10
- Benzo(b)fluoranthene, Benzo(k)fluoranthene and Indeno(1,2,3-cd)pyrene in D139-08
- Fluoranthene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene in D139-09
- Benzo(a)anthracene in D139-11
- Benzo(b)fluoranthene and Indeno(1,2,3-cd)pyrene in D139-16 and -17

Hence, the original chromatogram was retained and corrected chromatogram was initialed and dated. The secondary reviewer concurred with the manual integrations.

Samples D139-04, -10, -11, -12 and 19 were initially extracted and analyzed at dilution to reduce matrix interference (sticky dark color extracts).

Samples D139-05, -08 and -09 were initially analyzed at dilution due to dark-colored appearance in extracts.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D139
Instrument ID : E4

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	SVD040SB	1	NA	05/04/1811:26	04/26/1815:14	REJ125	RBJ167	18SVD040S	Method Blank
LCS1S	SVD040SL	1	NA	05/04/1811:45	04/26/1815:14	REJ126	RBJ167	18SVD040S	Lab Control Sample (LCS)
LCD1S	SVD040SC	1	NA	05/04/1812:03	04/26/1815:14	REJ127	RBJ167	18SVD040S	LCS Duplicate
B7-5	18D139-01	1	12.5	05/04/1817:40	04/26/1815:14	REJ145	RBJ167	18SVD040S	Field Sample
B7-10	18D139-02	1	22.6	05/04/1817:59	04/26/1815:14	REJ146	RBJ167	18SVD040S	Field Sample
B7-15	18D139-03	1	13.5	05/04/1818:18	04/26/1815:14	REJ147	RBJ167	18SVD040S	Field Sample
B8-0.5	18D139-04	5	2.8	05/04/1818:37	04/26/1815:14	REJ148	RBJ167	18SVD040S	Field Sample
B8-2	18D139-05	2	12.1	05/04/1818:55	04/26/1815:14	REJ149	RBJ167	18SVD040S	Field Sample
B8-5	18D139-06	1	14.5	05/04/1819:14	04/26/1815:14	REJ150	RBJ167	18SVD040S	Field Sample
B8-10	18D139-07	1	22.4	05/04/1819:33	04/26/1815:14	REJ151	RBJ167	18SVD040S	Field Sample
B9-0.5	18D139-08	5	2.3	05/04/1819:51	04/26/1815:14	REJ152	RBJ167	18SVD040S	Field Sample
B9-2	18D139-09	5	4.6	05/04/1820:10	04/26/1815:14	REJ153	RBJ167	18SVD040S	Field Sample
B7-5MS	18D139-01M	1	12.5	05/04/1820:29	04/26/1815:14	REJ154	RBJ167	18SVD040S	Matrix Spike Sample (MS)
B7-5MSD	18D139-01S	1	12.5	05/04/1820:47	04/26/1815:14	REJ155	RBJ167	18SVD040S	MS Duplicate (MSD)
B8-0.5D	18D139-10	5	2.5	05/07/1815:26	04/26/1815:14	REJ178	RBJ167	18SVD040S	Field Sample
B14-0.5	18D139-11	5	2.7	05/07/1815:45	04/26/1815:14	REJ179	RBJ167	18SVD040S	Field Sample
B14-2	18D139-12	5	6.8	05/07/1816:04	04/26/1815:14	REJ180	RBJ167	18SVD040S	Field Sample
B14-5	18D139-13	1	12.0	05/07/1816:23	04/26/1815:14	REJ181	RBJ167	18SVD040S	Field Sample
B14-10	18D139-14	1	11.8	05/07/1816:41	04/26/1815:14	REJ182	RBJ167	18SVD040S	Field Sample
B14-15	18D139-15	1	13.5	05/07/1817:00	04/26/1815:14	REJ183	RBJ167	18SVD040S	Field Sample
B15-0.5	18D139-16	3	2.8	05/07/1817:19	04/26/1815:14	REJ184	RBJ167	18SVD040S	Field Sample
B15-2	18D139-17	2	4.6	05/07/1817:38	04/26/1815:14	REJ185	RBJ167	18SVD040S	Field Sample
B15-5	18D139-18	1	20.8	05/07/1817:56	04/26/1815:14	REJ186	RBJ167	18SVD040S	Field Sample
B14-2D	18D139-19	5	6.4	05/07/1818:15	04/26/1815:14	REJ187	RBJ167	18SVD040S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 09:09
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/26/18 15:14
Sample ID : B7-5	Date Analyzed: 05/04/18 17:40
Lab Samp ID: 18D139-01	Dilution Factor: 1
Lab File ID: REJ145	Matrix: SOIL
Ext Btch ID: 18SVD040S	% Moisture: 12.5
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.7	2.9
Acenaphthylene	ND	5.7	2.9
Anthracene	ND	5.7	2.9
Benzo(a)anthracene	ND	5.7	2.9
Benzo(a)pyrene	ND	5.7	2.9
Benzo(b)fluoranthene	ND	5.7	2.9
Benzo(k)fluoranthene	ND	5.7	2.9
Benzo(g,h,i)perylene	ND	5.7	2.9
Chrysene	ND	5.7	2.9
Dibenzo(a,h)anthracene	ND	5.7	2.9
Fluoranthene	ND	5.7	2.9
Fluorene	ND	5.7	2.9
Indeno(1,2,3-cd)pyrene	ND	5.7	2.9
Naphthalene	ND	5.7	2.9
Phenanthrene	ND	5.7	2.9
Pyrene	ND	5.7	2.9
2-Methylnaphthalene	ND	5.7	2.9
1-Methylnaphthalene	ND	5.7	2.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	783	762	103	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.02g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 09:19
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B7-10	Date Analyzed:	05/04/18 17:59
Lab Samp ID:	18D139-02	Dilution Factor:	1
Lab File ID:	REJ146	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	22.6
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	6.5	3.2
Acenaphthylene	ND	6.5	3.2
Anthracene	ND	6.5	3.2
Benzo(a)anthracene	ND	6.5	3.2
Benzo(a)pyrene	ND	6.5	3.2
Benzo(b)fluoranthene	ND	6.5	3.2
Benzo(k)fluoranthene	ND	6.5	3.2
Benzo(g,h,i)perylene	ND	6.5	3.2
Chrysene	ND	6.5	3.2
Dibenzo(a,h)anthracene	ND	6.5	3.2
Fluoranthene	ND	6.5	3.2
Fluorene	ND	6.5	3.2
Indeno(1,2,3-cd)pyrene	ND	6.5	3.2
Naphthalene	ND	6.5	3.2
Phenanthrene	ND	6.5	3.2
Pyrene	ND	6.5	3.2
2-Methylnaphthalene	ND	6.5	3.2
1-Methylnaphthalene	ND	6.5	3.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	785	861	91	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30.01g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 09:28
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B7-15	Date Analyzed:	05/04/18 18:18
Lab Samp ID:	18D139-03	Dilution Factor:	1
Lab File ID:	REJ147	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	13.5
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.8	2.9
Acenaphthylene	ND	5.8	2.9
Anthracene	ND	5.8	2.9
Benzo(a)anthracene	ND	5.8	2.9
Benzo(a)pyrene	ND	5.8	2.9
Benzo(b)fluoranthene	ND	5.8	2.9
Benzo(k)fluoranthene	ND	5.8	2.9
Benzo(g,h,i)perylene	ND	5.8	2.9
Chrysene	ND	5.8	2.9
Dibenzo(a,h)anthracene	ND	5.8	2.9
Fluoranthene	ND	5.8	2.9
Fluorene	ND	5.8	2.9
Indeno(1,2,3-cd)pyrene	ND	5.8	2.9
Naphthalene	ND	5.8	2.9
Phenanthrene	ND	5.8	2.9
Pyrene	ND	5.8	2.9
2-Methylnaphthalene	ND	5.8	2.9
1-Methylnaphthalene	ND	5.8	2.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	754	771	98	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30.03g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 11:22
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B8-0.5	Date Analyzed:	05/04/18 18:37
Lab Samp ID:	18D139-04	Dilution Factor:	5
Lab File ID:	REJ148	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	2.8
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	130	64
Acenaphthylene	ND	130	64
Anthracene	ND	130	64
Benzo(a)anthracene	130	130	64
Benzo(a)pyrene	72J	130	64
Benzo(b)fluoranthene	110J	130	64
Benzo(k)fluoranthene	ND	130	64
Benzo(g,h,i)perylene	130	130	64
Chrysene	120J	130	64
Dibenzo(a,h)anthracene	ND	130	64
Fluoranthene	160	130	64
Fluorene	ND	130	64
Indeno(1,2,3-cd)pyrene	ND	130	64
Naphthalene	ND	130	64
Phenanthrene	110J	130	64
Pyrene	160	130	64
2-Methylnaphthalene	ND	130	64
1-Methylnaphthalene	ND	130	64

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	3220	3420	94	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 6.02g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 11:31
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B8-2	Date Analyzed:	05/04/18 18:55
Lab Samp ID:	18D139-05	Dilution Factor:	2
Lab File ID:	REJ149	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	12.1
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	11	5.7
Acenaphthylene	ND	11	5.7
Anthracene	ND	11	5.7
Benzo(a)anthracene	ND	11	5.7
Benzo(a)pyrene	ND	11	5.7
Benzo(b)fluoranthene	ND	11	5.7
Benzo(k)fluoranthene	ND	11	5.7
Benzo(g,h,i)perylene	ND	11	5.7
Chrysene	ND	11	5.7
Dibenzo(a,h)anthracene	ND	11	5.7
Fluoranthene	ND	11	5.7
Fluorene	ND	11	5.7
Indeno(1,2,3-cd)pyrene	ND	11	5.7
Naphthalene	ND	11	5.7
Phenanthrene	ND	11	5.7
Pyrene	ND	11	5.7
2-Methylnaphthalene	ND	11	5.7
1-Methylnaphthalene	ND	11	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	773	758	102	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 11:46
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/26/18 15:14
Sample ID : B8-5	Date Analyzed: 05/04/18 19:14
Lab Samp ID: 18D139-06	Dilution Factor: 1
Lab File ID: REJ150	Matrix: SOIL
Ext Btch ID: 18SVD040S	% Moisture: 14.5
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.8	2.9
Acenaphthylene	ND	5.8	2.9
Anthracene	ND	5.8	2.9
Benzo(a)anthracene	ND	5.8	2.9
Benzo(a)pyrene	ND	5.8	2.9
Benzo(b)fluoranthene	ND	5.8	2.9
Benzo(k)fluoranthene	ND	5.8	2.9
Benzo(g,h,i)perylene	ND	5.8	2.9
Chrysene	ND	5.8	2.9
Dibenzo(a,h)anthracene	ND	5.8	2.9
Fluoranthene	ND	5.8	2.9
Fluorene	ND	5.8	2.9
Indeno(1,2,3-cd)pyrene	ND	5.8	2.9
Naphthalene	ND	5.8	2.9
Phenanthrene	ND	5.8	2.9
Pyrene	ND	5.8	2.9
2-Methylnaphthalene	ND	5.8	2.9
1-Methylnaphthalene	ND	5.8	2.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	752	780	97	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.02g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 11:52
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/26/18 15:14
Sample ID : B8-10	Date Analyzed: 05/04/18 19:33
Lab Samp ID: 18D139-07	Dilution Factor: 1
Lab File ID: REJ151	Matrix: SOIL
Ext Btch ID: 18SVD040S	% Moisture: 22.4
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	6.4	3.2
Acenaphthylene	ND	6.4	3.2
Anthracene	ND	6.4	3.2
Benzo(a)anthracene	ND	6.4	3.2
Benzo(a)pyrene	ND	6.4	3.2
Benzo(b)fluoranthene	ND	6.4	3.2
Benzo(k)fluoranthene	ND	6.4	3.2
Benzo(g,h,i)perylene	ND	6.4	3.2
Chrysene	ND	6.4	3.2
Dibenzo(a,h)anthracene	ND	6.4	3.2
Fluoranthene	ND	6.4	3.2
Fluorene	ND	6.4	3.2
Indeno(1,2,3-cd)pyrene	ND	6.4	3.2
Naphthalene	ND	6.4	3.2
Phenanthrene	ND	6.4	3.2
Pyrene	ND	6.4	3.2
2-Methylnaphthalene	ND	6.4	3.2
1-Methylnaphthalene	ND	6.4	3.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	836	859	97	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.02g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET
Batch No. : 18D139
Sample ID : B9-0.5
Lab Samp ID: 18D139-08
Lab File ID: REJ152
Ext Btch ID: 18SVD040S
Calib. Ref.: RBJ167

Date Collected: 04/17/18 12:55
Date Received: 04/17/18
Date Extracted: 04/26/18 15:14
Date Analyzed: 05/04/18 19:51
Dilution Factor: 5
Matrix: SOIL
% Moisture: 2.3
Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	26	13
Acenaphthylene	ND	26	13
Anthracene	ND	26	13
Benzo(a)anthracene	80	26	13
Benzo(a)pyrene	66	26	13
Benzo(b)fluoranthene	84	26	13
Benzo(k)fluoranthene	17J	26	13
Benzo(g,h,i)perylene	89	26	13
Chrysene	100	26	13
Dibenzo(a,h)anthracene	ND	26	13
Fluoranthene	78	26	13
Fluorene	ND	26	13
Indeno(1,2,3-cd)pyrene	36	26	13
Naphthalene	ND	26	13
Phenanthrene	46	26	13
Pyrene	87	26	13
2-Methylnaphthalene	ND	26	13
1-Methylnaphthalene	ND	26	13

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	702	682	103	30-125

Notes:

Detection limits are reported relative to sample result significant figures.
Sample Amount : 30.02g
Final Volume : 2ml
Prepared by : JVille
Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 13:01
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B9-2	Date Analyzed:	05/04/18 20:10
Lab Samp ID:	18D139-09	Dilution Factor:	5
Lab File ID:	REJ153	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	4.6
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	26	13
Acenaphthylene	ND	26	13
Anthracene	ND	26	13
Benzo(a)anthracene	61	26	13
Benzo(a)pyrene	44	26	13
Benzo(b)fluoranthene	48	26	13
Benzo(k)fluoranthene	ND	26	13
Benzo(g,h,i)perylene	52	26	13
Chrysene	96	26	13
Dibenzo(a,h)anthracene	13J	26	13
Fluoranthene	33	26	13
Fluorene	ND	26	13
Indeno(1,2,3-cd)pyrene	23J	26	13
Naphthalene	ND	26	13
Phenanthrene	35	26	13
Pyrene	54	26	13
2-Methylnaphthalene	ND	26	13
1-Methylnaphthalene	ND	26	13

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	697	699	100	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30.02g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 11:24
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B8-0.5D	Date Analyzed:	05/07/18 15:26
Lab Samp ID:	18D139-10	Dilution Factor:	5
Lab File ID:	REJ178	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	2.5
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	130	64
Acenaphthylene	ND	130	64
Anthracene	ND	130	64
Benzo(a)anthracene	89J	130	64
Benzo(a)pyrene	ND	130	64
Benzo(b)fluoranthene	68J	130	64
Benzo(k)fluoranthene	ND	130	64
Benzo(g,h,i)perylene	120J	130	64
Chrysene	84J	130	64
Dibenzo(a,h)anthracene	ND	130	64
Fluoranthene	71J	130	64
Fluorene	ND	130	64
Indeno(1,2,3-cd)pyrene	ND	130	64
Naphthalene	ND	130	64
Phenanthrene	ND	130	64
Pyrene	90J	130	64
2-Methylnaphthalene	ND	130	64
1-Methylnaphthalene	ND	130	64

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	3020	3410	89	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 6.02g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 09:41
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/26/18 15:14
Sample ID : B14-0.5	Date Analyzed: 05/07/18 15:45
Lab Samp ID: 18D139-11	Dilution Factor: 5
Lab File ID: REJ179	Matrix: SOIL
Ext Btch ID: 18SVD040S	% Moisture: 2.7
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	130	64
Acenaphthylene	ND	130	64
Anthracene	ND	130	64
Benzo(a)anthracene	98J	130	64
Benzo(a)pyrene	ND	130	64
Benzo(b)fluoranthene	ND	130	64
Benzo(k)fluoranthene	ND	130	64
Benzo(g,h,i)perylene	110J	130	64
Chrysene	ND	130	64
Dibenzo(a,h)anthracene	ND	130	64
Fluoranthene	ND	130	64
Fluorene	ND	130	64
Indeno(1,2,3-cd)pyrene	ND	130	64
Naphthalene	ND	130	64
Phenanthrene	ND	130	64
Pyrene	ND	130	64
2-Methylnaphthalene	ND	130	64
1-Methylnaphthalene	ND	130	64

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	3030	3420	89	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 6.01g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 09:46
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B14-2	Date Analyzed:	05/07/18 16:04
Lab Samp ID:	18D139-12	Dilution Factor:	5
Lab File ID:	REJ180	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	6.8
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	130	67
Acenaphthylene	ND	130	67
Anthracene	ND	130	67
Benzo(a)anthracene	85J	130	67
Benzo(a)pyrene	ND	130	67
Benzo(b)fluoranthene	ND	130	67
Benzo(k)fluoranthene	ND	130	67
Benzo(g,h,i)perylene	68J	130	67
Chrysene	100J	130	67
Dibenzo(a,h)anthracene	ND	130	67
Fluoranthene	ND	130	67
Fluorene	ND	130	67
Indeno(1,2,3-cd)pyrene	ND	130	67
Naphthalene	ND	130	67
Phenanthrene	ND	130	67
Pyrene	ND	130	67
2-Methylnaphthalene	ND	130	67
1-Methylnaphthalene	ND	130	67

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	3380	3570	95	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 6.01g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 10:06
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B14-5	Date Analyzed:	05/07/18 16:23
Lab Samp ID:	18D139-13	Dilution Factor:	1
Lab File ID:	REJ181	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	12.0
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.7	2.8
Acenaphthylene	ND	5.7	2.8
Anthracene	ND	5.7	2.8
Benzo(a)anthracene	ND	5.7	2.8
Benzo(a)pyrene	ND	5.7	2.8
Benzo(b)fluoranthene	ND	5.7	2.8
Benzo(k)fluoranthene	ND	5.7	2.8
Benzo(g,h,i)perylene	ND	5.7	2.8
Chrysene	ND	5.7	2.8
Dibenzo(a,h)anthracene	ND	5.7	2.8
Fluoranthene	ND	5.7	2.8
Fluorene	ND	5.7	2.8
Indeno(1,2,3-cd)pyrene	ND	5.7	2.8
Naphthalene	ND	5.7	2.8
Phenanthrene	ND	5.7	2.8
Pyrene	ND	5.7	2.8
2-Methylnaphthalene	ND	5.7	2.8
1-Methylnaphthalene	ND	5.7	2.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	717	758	95	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 10:13
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B14-10	Date Analyzed:	05/07/18 16:41
Lab Samp ID:	18D139-14	Dilution Factor:	1
Lab File ID:	REJ182	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	11.8
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.7	2.8
Acenaphthylene	ND	5.7	2.8
Anthracene	ND	5.7	2.8
Benzo(a)anthracene	ND	5.7	2.8
Benzo(a)pyrene	ND	5.7	2.8
Benzo(b)fluoranthene	ND	5.7	2.8
Benzo(k)fluoranthene	ND	5.7	2.8
Benzo(g,h,i)perylene	ND	5.7	2.8
Chrysene	ND	5.7	2.8
Dibenzo(a,h)anthracene	ND	5.7	2.8
Fluoranthene	ND	5.7	2.8
Fluorene	ND	5.7	2.8
Indeno(1,2,3-cd)pyrene	ND	5.7	2.8
Naphthalene	ND	5.7	2.8
Phenanthrene	ND	5.7	2.8
Pyrene	ND	5.7	2.8
2-Methylnaphthalene	ND	5.7	2.8
1-Methylnaphthalene	ND	5.7	2.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	722	756	96	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 10:20
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B14-15	Date Analyzed:	05/07/18 17:00
Lab Samp ID:	18D139-15	Dilution Factor:	1
Lab File ID:	REJ183	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	13.5
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.8	2.9
Acenaphthylene	ND	5.8	2.9
Anthracene	ND	5.8	2.9
Benzo(a)anthracene	ND	5.8	2.9
Benzo(a)pyrene	ND	5.8	2.9
Benzo(b)fluoranthene	ND	5.8	2.9
Benzo(k)fluoranthene	ND	5.8	2.9
Benzo(g,h,i)perylene	ND	5.8	2.9
Chrysene	ND	5.8	2.9
Dibenzo(a,h)anthracene	ND	5.8	2.9
Fluoranthene	ND	5.8	2.9
Fluorene	ND	5.8	2.9
Indeno(1,2,3-cd)pyrene	ND	5.8	2.9
Naphthalene	ND	5.8	2.9
Phenanthrene	ND	5.8	2.9
Pyrene	ND	5.8	2.9
2-Methylnaphthalene	ND	5.8	2.9
1-Methylnaphthalene	ND	5.8	2.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	741	771	96	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 10:44
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/26/18 15:14
Sample ID : B15-0.5	Date Analyzed: 05/07/18 17:19
Lab Samp ID: 18D139-16	Dilution Factor: 3
Lab File ID: REJ184	Matrix: SOIL
Ext Btch ID: 18SVD040S	% Moisture: 2.8
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	15	7.7
Acenaphthylene	ND	15	7.7
Anthracene	ND	15	7.7
Benzo(a)anthracene	22	15	7.7
Benzo(a)pyrene	19	15	7.7
Benzo(b)fluoranthene	25	15	7.7
Benzo(k)fluoranthene	ND	15	7.7
Benzo(g,h,i)perylene	25	15	7.7
Chrysene	27	15	7.7
Dibenzo(a,h)anthracene	ND	15	7.7
Fluoranthene	23	15	7.7
Fluorene	ND	15	7.7
Indeno(1,2,3-cd)pyrene	9.6J	15	7.7
Naphthalene	ND	15	7.7
Phenanthrene	13J	15	7.7
Pyrene	25	15	7.7
2-Methylnaphthalene	ND	15	7.7
1-Methylnaphthalene	ND	15	7.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	648	686	94	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 10:49
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B15-2	Date Analyzed:	05/07/18 17:38
Lab Samp ID:	18D139-17	Dilution Factor:	2
Lab File ID:	REJ185	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	4.6
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	10	5.2
Acenaphthylene	ND	10	5.2
Anthracene	ND	10	5.2
Benzo(a)anthracene	18	10	5.2
Benzo(a)pyrene	14	10	5.2
Benzo(b)fluoranthene	16	10	5.2
Benzo(k)fluoranthene	ND	10	5.2
Benzo(g,h,i)perylene	17	10	5.2
Chrysene	22	10	5.2
Dibenzo(a,h)anthracene	ND	10	5.2
Fluoranthene	15	10	5.2
Fluorene	ND	10	5.2
Indeno(1,2,3-cd)pyrene	7.0J	10	5.2
Naphthalene	ND	10	5.2
Phenanthrene	12	10	5.2
Pyrene	19	10	5.2
2-Methylnaphthalene	ND	10	5.2
1-Methylnaphthalene	ND	10	5.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	712	699	102	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30.01g	Final Volume :	2ml
Prepared by	: JVille	Analyzed by :	KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 11:05
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B15-5	Date Analyzed:	05/07/18 17:56
Lab Samp ID:	18D139-18	Dilution Factor:	1
Lab File ID:	REJ186	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	20.8
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	6.3	3.2
Acenaphthylene	ND	6.3	3.2
Anthracene	ND	6.3	3.2
Benzo(a)anthracene	ND	6.3	3.2
Benzo(a)pyrene	ND	6.3	3.2
Benzo(b)fluoranthene	ND	6.3	3.2
Benzo(k)fluoranthene	ND	6.3	3.2
Benzo(g,h,i)perylene	ND	6.3	3.2
Chrysene	ND	6.3	3.2
Dibenzo(a,h)anthracene	ND	6.3	3.2
Fluoranthene	ND	6.3	3.2
Fluorene	ND	6.3	3.2
Indeno(1,2,3-cd)pyrene	ND	6.3	3.2
Naphthalene	ND	6.3	3.2
Phenanthrene	ND	6.3	3.2
Pyrene	ND	6.3	3.2
2-Methylnaphthalene	ND	6.3	3.2
1-Methylnaphthalene	ND	6.3	3.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	791	842	94	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 09:48
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/26/18 15:14
Sample ID : B14-2D	Date Analyzed: 05/07/18 18:15
Lab Samp ID: 18D139-19	Dilution Factor: 5
Lab File ID: REJ187	Matrix: SOIL
Ext Btch ID: 18SVD040S	% Moisture: 6.4
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	130	67
Acenaphthylene	ND	130	67
Anthracene	ND	130	67
Benzo(a)anthracene	95J	130	67
Benzo(a)pyrene	ND	130	67
Benzo(b)fluoranthene	ND	130	67
Benzo(k)fluoranthene	ND	130	67
Benzo(g,h,i)perylene	79J	130	67
Chrysene	110J	130	67
Dibenzo(a,h)anthracene	ND	130	67
Fluoranthene	ND	130	67
Fluorene	ND	130	67
Indeno(1,2,3-cd)pyrene	ND	130	67
Naphthalene	ND	130	67
Phenanthrene	ND	130	67
Pyrene	72J	130	67
2-Methylnaphthalene	ND	130	67
1-Methylnaphthalene	ND	130	67

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	3190	3550	90	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 6.01g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

QC SUMMARIES

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/26/18 15:14
Project : POLA-1500 I STREET	Date Received: 04/26/18
Batch No. : 18D139	Date Extracted: 04/26/18 15:14
Sample ID : MBLK1S	Date Analyzed: 05/04/18 11:26
Lab Samp ID: SVD040SB	Dilution Factor: 1
Lab File ID: REJ125	Matrix: SOIL
Ext Btch ID: 18SVD040S	% Moisture: NA
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.0	2.5
Acenaphthylene	ND	5.0	2.5
Anthracene	ND	5.0	2.5
Benzo(a)anthracene	ND	5.0	2.5
Benzo(a)pyrene	ND	5.0	2.5
Benzo(b)fluoranthene	ND	5.0	2.5
Benzo(k)fluoranthene	ND	5.0	2.5
Benzo(g,h,i)perylene	ND	5.0	2.5
Chrysene	ND	5.0	2.5
Dibenzo(a,h)anthracene	ND	5.0	2.5
Fluoranthene	ND	5.0	2.5
Fluorene	ND	5.0	2.5
Indeno(1,2,3-cd)pyrene	ND	5.0	2.5
Naphthalene	ND	5.0	2.5
Phenanthrene	ND	5.0	2.5
Pyrene	ND	5.0	2.5
2-Methylnaphthalene	ND	5.0	2.5
1-Methylnaphthalene	ND	5.0	2.5

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	670	667	101	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3550B/8270C SIM

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: SVD040SB	SVD040SL	SVD040SC
LAB FILE ID	: REJ125	REJ126	REJ127
DATE PREPARED	: 04/26/18 15:14	04/26/18 15:14	04/26/18 15:14
DATE ANALYZED	: 05/04/18 11:26	05/04/18 11:45	05/04/18 12:03
PREP BATCH	: 18SVD040S	18SVD040S	18SVD040S
CALIBRATION REF	: RBJ167	RBJ167	RBJ167

ACCESSION:

PARAMETERS	MBResult (ug/kg)	SpikeAmt (ug/kg)	LCSResult (ug/kg)	LCSRec (%)	SpikeAmt (ug/kg)	LCDResult (ug/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Acenaphthene	ND	1330	1220	92	1330	998	75	20	45-110	30
Acenaphthylene	ND	1330	1350	101	1330	1100	83	20	45-105	30
Anthracene	ND	1330	1240	93	1330	1070	80	15	55-105	30
Benzo(a)anthracene	ND	1330	1460	110	1330	1250	94	15	50-110	30
Benzo(a)pyrene	ND	1330	1400	105	1330	1190	89	16	50-110	30
Benzo(b)fluoranthene	ND	1330	1310	98	1330	1110	83	17	45-115	30
Benzo(k)fluoranthene	ND	1330	1400	105	1330	1210	91	15	45-125	30
Benzo(g,h,i)perylene	ND	1330	1360	102	1330	1160	87	16	40-125	30
Chrysene	ND	1330	1520	114*	1330	1300	98	16	55-110	30
Dibenzo(a,h)anthracene	ND	1330	1460	110	1330	1240	93	16	40-125	30
Fluoranthene	ND	1330	1400	105	1330	1200	90	15	55-115	30
Fluorene	ND	1330	1340	101	1330	1090	82	21	50-110	30
Indeno(1,2,3-cd)pyrene	ND	1330	1420	107	1330	1220	92	15	40-120	30
Naphthalene	ND	1330	1130	85	1330	968	73	15	40-105	30
Phenanthrene	ND	1330	1180	89	1330	1010	76	16	50-110	30
Pyrene	ND	1330	1390	104	1330	1190	89	16	45-125	30
2-Methylnaphthalene	ND	1330	1120	84	1330	947	71	17	45-105	30
1-Methylnaphthalene	ND	1330	1140	86	1330	959	72	17	30-160	30

SURROGATE PARAMETER	SpikeAmt (ug/kg)	LCSResult (ug/kg)	LCSRec (%)	SpikeAmt (ug/kg)	LCDResult (ug/kg)	LCDRec (%)	QCLimit (%)
Terphenyl-d14	667	781	117	667	669	100	30-125

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate
* Out of QC Limit

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3550B/8270C SIM

MATRIX	: SOIL		% MOISTURE:12.5
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B7-5	B7-5MS	B7-5MSD
LAB SAMPLE ID	: 18D139-01	18D139-01M	18D139-01S
LAB FILE ID	: REJ145	REJ154	REJ155
DATE PREPARED	: 04/26/18 15:14	04/26/18 15:14	04/26/18 15:14
DATE ANALYZED	: 05/04/18 17:40	05/04/18 20:29	05/04/18 20:47
PREP BATCH	: 18SVD040S	18SVD040S	18SVD040S
CALIBRATION REF	: RBJ167	RBJ167	RBJ167

ACCESSION:

PARAMETERS	PSResult (ug/kg)	SpikeAmt (ug/kg)	MSResult (ug/kg)	MSRec (%)	SpikeAmt (ug/kg)	MSDResult (ug/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Acenaphthene	ND	1520	1130	74	1520	1120	74	1	45-110	30
Acenaphthylene	ND	1520	1250	82	1520	1230	81	2	45-105	30
Anthracene	ND	1520	1230	81	1520	1170	77	5	55-105	30
Benzo(a)anthracene	ND	1520	1410	93	1520	1330	87	6	50-110	30
Benzo(a)pyrene	ND	1520	1360	89	1520	1320	87	3	50-110	30
Benzo(b)fluoranthene	ND	1520	1300	85	1520	1300	85	0	45-115	30
Benzo(k)fluoranthene	ND	1520	1370	90	1520	1300	85	5	45-125	30
Benzo(g,h,i)perylene	ND	1520	1300	85	1520	1240	81	5	40-125	30
Chrysene	ND	1520	1420	93	1520	1350	89	5	55-110	30
Dibenzo(a,h)anthracene	ND	1520	1390	91	1520	1320	87	5	40-125	30
Fluoranthene	ND	1520	1380	91	1520	1320	87	4	55-115	30
Fluorene	ND	1520	1240	81	1520	1230	81	1	50-110	30
Indeno(1,2,3-cd)pyrene	ND	1520	1360	89	1520	1300	85	5	40-120	30
Naphthalene	ND	1520	1080	71	1520	1040	68	4	40-105	30
Phenanthrene	ND	1520	1170	77	1520	1120	74	4	50-110	30
Pyrene	ND	1520	1370	90	1520	1310	86	4	45-125	30
2-Methylnaphthalene	ND	1520	1060	70	1520	1020	67	4	45-105	30
1-Methylnaphthalene	ND	1520	1080	71	1520	1030	68	5	30-160	30

SURROGATE PARAMETER	SpikeAmt (ug/kg)	MSResult (ug/kg)	MSRec (%)	SpikeAmt (ug/kg)	MSDResult (ug/kg)	MSDRec (%)	QCLimit (%)
Terphenyl-d14	762	729	96	762	744	98	30-125

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D139

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D139

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of nineteen (19) soil samples were received on 04/17/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5035A/SW8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. GMD009SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. GMD009SL/GMD009SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D139
Instrument ID : GCT039

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1S	GMD009SL	1	NA	04/19/1816:41	04/19/1813:00	ED19004A	ED19003A	18GMD009S	Lab Control Sample (LCS)
LCD1S	GMD009SC	1	NA	04/19/1817:20	04/19/1813:00	ED19005A	ED19003A	18GMD009S	LCS Duplicate
MBLK1S	GMD009SB	1	NA	04/19/1817:59	04/19/1813:00	ED19006A	ED19003A	18GMD009S	Method Blank
B7-5	18D139-01I	1	12.5	04/19/1818:38	04/19/1813:00	ED19007A	ED19003A	18GMD009S	Diluted Sample
B7-10	18D139-02I	1	22.6	04/19/1819:17	04/19/1813:00	ED19008A	ED19003A	18GMD009S	Diluted Sample
B7-15	18D139-03I	1	13.5	04/19/1819:55	04/19/1813:00	ED19009A	ED19003A	18GMD009S	Diluted Sample
B8-0.5	18D139-04I	1	2.8	04/19/1820:34	04/19/1813:00	ED19010A	ED19003A	18GMD009S	Diluted Sample
B8-2	18D139-05I	1	12.1	04/19/1821:13	04/19/1813:00	ED19011A	ED19003A	18GMD009S	Diluted Sample
B8-5	18D139-06I	1	14.5	04/19/1821:52	04/19/1813:00	ED19012A	ED19003A	18GMD009S	Diluted Sample
B8-10	18D139-07I	1	22.4	04/19/1822:30	04/19/1813:00	ED19013A	ED19003A	18GMD009S	Diluted Sample
B9-0.5	18D139-08I	1	2.3	04/19/1823:09	04/19/1813:00	ED19014A	ED19003A	18GMD009S	Diluted Sample
B9-2	18D139-09I	1	4.6	04/19/1823:47	04/19/1813:00	ED19015A	ED19003A	18GMD009S	Diluted Sample
B8-0.5D	18D139-10I	1	2.5	04/20/1801:04	04/19/1813:00	ED19017A	ED19016A	18GMD009S	Diluted Sample
B14-0.5	18D139-11I	1	2.7	04/20/1801:43	04/19/1813:00	ED19018A	ED19016A	18GMD009S	Diluted Sample
B14-2	18D139-12I	1	6.8	04/20/1802:21	04/19/1813:00	ED19019A	ED19016A	18GMD009S	Diluted Sample
B14-5	18D139-13I	1	12.0	04/20/1803:00	04/19/1813:00	ED19020A	ED19016A	18GMD009S	Diluted Sample
B14-10	18D139-14I	1	11.8	04/20/1803:38	04/19/1813:00	ED19021A	ED19016A	18GMD009S	Diluted Sample
B14-15	18D139-15I	1	13.5	04/20/1804:17	04/19/1813:00	ED19022A	ED19016A	18GMD009S	Diluted Sample
B15-0.5	18D139-16I	1	2.8	04/20/1804:55	04/19/1813:00	ED19023A	ED19016A	18GMD009S	Diluted Sample
B15-2	18D139-17I	1	4.6	04/20/1805:33	04/19/1813:00	ED19024A	ED19016A	18GMD009S	Diluted Sample
B15-5	18D139-18I	1	20.8	04/20/1806:12	04/19/1813:00	ED19025A	ED19016A	18GMD009S	Diluted Sample
B14-2D	18D139-19I	1	6.4	04/20/1806:50	04/19/1813:00	ED19026A	ED19016A	18GMD009S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 09:09
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B7-5	Date Analyzed:	04/19/18 18:38
Lab Samp ID:	18D139-01I	Dilution Factor:	1
Lab File ID:	ED19007A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	12.5
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.85	0.42

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.36	1.69	80	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 6.773g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 09:19
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B7-10	Date Analyzed:	04/19/18 19:17
Lab Samp ID:	18D139-02I	Dilution Factor:	1
Lab File ID:	ED19008A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	22.6
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.3	0.64

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	2.11	2.56	83	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.063g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 09:28
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B7-15	Date Analyzed:	04/19/18 19:55
Lab Samp ID:	18D139-03I	Dilution Factor:	1
Lab File ID:	ED19009A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	13.5
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.54

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.69	2.15	79	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.394g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 11:22
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B8-0.5	Date Analyzed:	04/19/18 20:34
Lab Samp ID:	18D139-04I	Dilution Factor:	1
Lab File ID:	ED19010A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	2.8
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.52

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.71	2.10	81	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 4.883g	Final Volume	: 5ml (100uL extract)
Prepared by	: SCerva	Analyzed by	: SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 11:31
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B8-2	Date Analyzed:	04/19/18 21:13
Lab Samp ID:	18D139-05I	Dilution Factor:	1
Lab File ID:	ED19011A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	12.1
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.64	2.00	82	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.685g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 11:46
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B8-5	Date Analyzed:	04/19/18 21:52
Lab Samp ID:	18D139-06I	Dilution Factor:	1
Lab File ID:	ED19012A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	14.5
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.53

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.67	2.13	78	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.477g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 11:52
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B8-10	Date Analyzed:	04/19/18 22:30
Lab Samp ID:	18D139-07I	Dilution Factor:	1
Lab File ID:	ED19013A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	22.4
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.53

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.71	2.11	81	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 6.067g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 12:55
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B9-0.5	Date Analyzed:	04/19/18 23:09
Lab Samp ID:	18D139-08I	Dilution Factor:	1
Lab File ID:	ED19014A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	2.3
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.57

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.77	2.27	78	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 4.488g	Final Volume	: 5ml (100uL extract)
Prepared by	: SCerva	Analyzed by	: SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 13:01
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B9-2	Date Analyzed:	04/19/18 23:47
Lab Samp ID:	18D139-09I	Dilution Factor:	1
Lab File ID:	ED19015A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	4.6
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.55

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.77	2.18	81	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 4.794g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 11:24
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B8-0.5D	Date Analyzed:	04/20/18 01:04
Lab Samp ID:	18D139-10I	Dilution Factor:	1
Lab File ID:	ED19017A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	2.5
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.58	2.01	79	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.113g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 09:41
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B14-0.5	Date Analyzed:	04/20/18 01:43
Lab Samp ID:	18D139-11I	Dilution Factor:	1
Lab File ID:	ED19018A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	2.7
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.53

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.72	2.14	81	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 4.801g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 09:46
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B14-2	Date Analyzed:	04/20/18 02:21
Lab Samp ID:	18D139-12I	Dilution Factor:	1
Lab File ID:	ED19019A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	6.8
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.54

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.75	2.15	81	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 4.979g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 10:06
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B14-5	Date Analyzed:	04/20/18 03:00
Lab Samp ID:	18D139-13I	Dilution Factor:	1
Lab File ID:	ED19020A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	12.0
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.55

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.75	2.18	80	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.187g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 10:13
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B14-10	Date Analyzed:	04/20/18 03:38
Lab Samp ID:	18D139-14I	Dilution Factor:	1
Lab File ID:	ED19021A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	11.8
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.61	2.02	80	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.613g	Final Volume	: 5ml (100uL extract)
Prepared by	: SCerva	Analyzed by	: SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 10:20
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B14-15	Date Analyzed:	04/20/18 04:17
Lab Samp ID:	18D139-15I	Dilution Factor:	1
Lab File ID:	ED19022A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	13.5
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.57

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.81	2.27	80	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.117g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 10:44
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B15-0.5	Date Analyzed:	04/20/18 04:55
Lab Samp ID:	18D139-16I	Dilution Factor:	1
Lab File ID:	ED19023A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	2.8
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.51

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.62	2.04	80	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.057g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 10:49
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B15-2	Date Analyzed:	04/20/18 05:33
Lab Samp ID:	18D139-17I	Dilution Factor:	1
Lab File ID:	ED19024A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	4.6
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.56

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.74	2.22	78	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 4.701g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 11:05
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B15-5	Date Analyzed:	04/20/18 06:12
Lab Samp ID:	18D139-18I	Dilution Factor:	1
Lab File ID:	ED19025A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	20.8
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.4	0.69

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	2.09	2.75	76	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 4.593g	Final Volume	: 5ml (100uL extract)
Prepared by	: SCerva	Analyzed by	: SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 09:48
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B14-2D	Date Analyzed:	04/20/18 06:50
Lab Samp ID:	18D139-19I	Dilution Factor:	1
Lab File ID:	ED19026A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	6.4
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.53

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.66	2.14	78	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.02g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

QC SUMMARIES

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/19/18 13:00
Project	: POLA-1500 I STREET	Date Received:	04/19/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: MBLK1S	Date Analyzed:	04/19/18 17:59
Lab Samp ID:	GMD009SB	Dilution Factor:	1
Lab File ID:	ED19006A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	NA
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.74	2.00	87	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : SW5035A/SW8015B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: GMD009SB	GMD009SL	GMD009SC
LAB FILE ID	: ED19006A	ED19004A	ED19005A
DATE PREPARED	: 04/19/18 13:00	04/19/18 13:00	04/19/18 13:00
DATE ANALYZED	: 04/19/18 17:59	04/19/18 16:41	04/19/18 17:20
PREP BATCH	: 18GMD009S	18GMD009S	18GMD009S
CALIBRATION REF	: ED19003A	ED19003A	ED19003A

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	25.0	24.4	98	25.0	24.6	98	1	60-130	50

SURROGATE PARAMETER	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	2.00	2.06	103	2.00	2.07	104	70-140

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D139

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D139

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of nineteen (19) soil samples were received on 04/17/18 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3550B/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSD022SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSD022SL/DSD022SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Diesel was within MS QC limits in 8D139-03M/S. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

Samples D139-04I, -08, -09, -10I, -11I, -12I, -16, -17, and -19I displayed heavier fuel pattern.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D139
Instrument ID : D5

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	DSD022SB	1	NA	04/25/1819:01	04/23/1816:30	LD24102A	LD24093A	18DSD022S	Method Blank
LCS1S	DSD022SL	1	NA	04/25/1819:18	04/23/1816:30	LD24103A	LD24093A	18DSD022S	Lab Control Sample (LCS)
LCD1S	DSD022SC	1	NA	04/25/1819:35	04/23/1816:30	LD24104A	LD24093A	18DSD022S	LCS Duplicate
B7-5	D139-01	1	12.5	04/25/1819:51	04/23/1816:30	LD24105A	LD24093A	18DSD022S	Field Sample
B7-10	D139-02	1	22.6	04/25/1820:08	04/23/1816:30	LD24106A	LD24093A	18DSD022S	Field Sample
B8-0.5	D139-04I	5	2.8	04/25/1820:25	04/23/1816:30	LD24107A	LD24093A	18DSD022S	Diluted Sample
B7-15	D139-03	1	13.5	04/25/1821:15	04/23/1816:30	LD24110A	LD24108A	18DSD022S	Field Sample
B7-15MS	D139-03M	1	13.5	04/25/1821:32	04/23/1816:30	LD24111A	LD24108A	18DSD022S	Matrix Spike Sample (MS)
B7-15MSD	D139-03S	1	13.5	04/25/1821:48	04/23/1816:30	LD24112A	LD24108A	18DSD022S	MS Duplicate (MSD)
B8-2	D139-05	1	12.1	04/25/1822:05	04/23/1816:30	LD24113A	LD24108A	18DSD022S	Field Sample
B8-5	D139-06	1	14.5	04/25/1822:22	04/23/1816:30	LD24114A	LD24108A	18DSD022S	Field Sample
B8-10	D139-07	1	22.4	04/25/1822:38	04/23/1816:30	LD24115A	LD24108A	18DSD022S	Field Sample
B9-0.5	D139-08	1	2.3	04/25/1822:55	04/23/1816:30	LD24116A	LD24108A	18DSD022S	Field Sample
B9-2	D139-09	1	4.6	04/25/1823:12	04/23/1816:30	LD24117A	LD24108A	18DSD022S	Field Sample
B8-0.5D	D139-10I	5	2.5	04/25/1823:29	04/23/1816:30	LD24118A	LD24108A	18DSD022S	Diluted Sample
B14-0.5	D139-11I	8	2.7	04/25/1823:45	04/23/1816:30	LD24119A	LD24108A	18DSD022S	Diluted Sample
B14-2	D139-12I	5	6.8	04/26/1800:35	04/23/1816:30	LD24122A	LD24120A	18DSD022S	Diluted Sample
B14-5	D139-13	1	12.0	04/26/1800:52	04/23/1816:30	LD24123A	LD24120A	18DSD022S	Field Sample
B14-10	D139-14	1	11.8	04/26/1801:08	04/23/1816:30	LD24124A	LD24120A	18DSD022S	Field Sample
B14-15	D139-15	1	13.5	04/26/1801:25	04/23/1816:30	LD24125A	LD24120A	18DSD022S	Field Sample
B15-0.5	D139-16	1	2.8	04/26/1801:42	04/23/1816:30	LD24126A	LD24120A	18DSD022S	Field Sample
B15-2	D139-17	1	4.6	04/26/1801:58	04/23/1816:30	LD24127A	LD24120A	18DSD022S	Field Sample
B15-5	D139-18	1	20.8	04/26/1802:15	04/23/1816:30	LD24128A	LD24120A	18DSD022S	Field Sample
B14-2D	D139-19I	5	6.4	04/26/1802:32	04/23/1816:30	LD24129A	LD24120A	18DSD022S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 09:09
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B7-5	Date Analyzed:	04/25/18 19:51
Lab Samp ID:	18D139-01	Dilution Factor:	1
Lab File ID:	LD24105A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	12.5
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.7
Motor Oil	ND	23	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	111	114	97	50-130
Hexacosane	30.6	28.6	107	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.04g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 09:19
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B7-10	Date Analyzed:	04/25/18 20:08
Lab Samp ID:	18D139-02	Dilution Factor:	1
Lab File ID:	LD24106A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	22.6
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	13	6.5
Motor Oil	ND	26	6.5

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	124	129	96	50-130
Hexacosane	33.8	32.3	104	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume :	10ml
Prepared by	: TWangc	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 09:28
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B7-15	Date Analyzed:	04/25/18 21:15
Lab Samp ID:	18D139-03	Dilution Factor:	1
Lab File ID:	LD24110A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	13.5
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	104	116	90	50-130
Hexacosane	28.4	28.9	98	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 11:22
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B8-0.5	Date Analyzed:	04/25/18 20:25
Lab Samp ID:	18D139-04I	Dilution Factor:	5
Lab File ID:	LD24107A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	2.8
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	65	51	26
Motor Oil	750	100	26

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	105	103	102	50-130
Hexacosane	29.2	25.7	114	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 11:31
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B8-2	Date Analyzed:	04/25/18 22:05
Lab Samp ID:	18D139-05	Dilution Factor:	1
Lab File ID:	LD24113A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	12.1
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.7
Motor Oil	ND	23	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	117	114	103	50-130
Hexacosane	32.3	28.4	113	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume :	10ml
Prepared by	: TWangc	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 11:46
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B8-5	Date Analyzed:	04/25/18 22:22
Lab Samp ID:	18D139-06	Dilution Factor:	1
Lab File ID:	LD24114A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	14.5
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	116	117	99	50-130
Hexacosane	32.5	29.2	111	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.04g	Final Volume :	10ml
Prepared by	: TWangc	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 11:52
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B8-10	Date Analyzed:	04/25/18 22:38
Lab Samp ID:	18D139-07	Dilution Factor:	1
Lab File ID:	LD24115A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	22.4
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	13	6.4
Motor Oil	ND	26	6.4

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	129	129	100	50-130
Hexacosane	35.5	32.2	110	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.03g	Final Volume :	10ml
Prepared by	: TWangc	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 12:55
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B9-0.5	Date Analyzed:	04/25/18 22:55
Lab Samp ID:	18D139-08	Dilution Factor:	1
Lab File ID:	LD24116A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	2.3
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	7.1J	10	5.1
Motor Oil	260	20	5.1

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	99.3	102	97	50-130
Hexacosane	25.8	25.6	101	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 13:01
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B9-2	Date Analyzed:	04/25/18 23:12
Lab Samp ID:	18D139-09	Dilution Factor:	1
Lab File ID:	LD24117A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	4.6
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.2
Motor Oil	140	21	5.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	109	105	104	50-130
Hexacosane	29.5	26.2	112	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 11:24
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B8-0.5D	Date Analyzed:	04/25/18 23:29
Lab Samp ID:	18D139-10I	Dilution Factor:	5
Lab File ID:	LD24118A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	2.5
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	19J	51	26
Motor Oil	550	100	26

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	107	103	104	50-130
Hexacosane	30.4	25.6	118	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 09:41
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B14-0.5	Date Analyzed:	04/25/18 23:45
Lab Samp ID:	18D139-11I	Dilution Factor:	8
Lab File ID:	LD24119A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	2.7
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	35J	82	41
Motor Oil	2100	160	41

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	95.2	103	93	50-130
Hexacosane	26.9	25.7	105	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume :	10ml
Prepared by	: TWangc	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 09:46
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B14-2	Date Analyzed:	04/26/18 00:35
Lab Samp ID:	18D139-12I	Dilution Factor:	5
Lab File ID:	LD24122A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	6.8
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	41J	54	27
Motor Oil	910	110	27

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	113	107	106	50-130
Hexacosane	32.0	26.8	119	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume :	10ml
Prepared by	: TWangc	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 10:06
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B14-5	Date Analyzed:	04/26/18 00:52
Lab Samp ID:	18D139-13	Dilution Factor:	1
Lab File ID:	LD24123A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	12.0
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.7
Motor Oil	ND	23	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	106	114	93	50-130
Hexacosane	30.4	28.4	107	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 10:13
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B14-10	Date Analyzed:	04/26/18 01:08
Lab Samp ID:	18D139-14	Dilution Factor:	1
Lab File ID:	LD24124A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	11.8
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.7
Motor Oil	ND	23	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	110	113	97	50-130
Hexacosane	30.6	28.3	108	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 10:20
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B14-15	Date Analyzed:	04/26/18 01:25
Lab Samp ID:	18D139-15	Dilution Factor:	1
Lab File ID:	LD24125A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	13.5
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	113	116	98	50-130
Hexacosane	32.0	28.9	111	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 10:44
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B15-0.5	Date Analyzed:	04/26/18 01:42
Lab Samp ID:	18D139-16	Dilution Factor:	1
Lab File ID:	LD24126A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	2.8
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.1
Motor Oil	110	21	5.1

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	103	103	100	50-130
Hexacosane	29.0	25.7	113	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.03g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 10:49
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B15-2	Date Analyzed:	04/26/18 01:58
Lab Samp ID:	18D139-17	Dilution Factor:	1
Lab File ID:	LD24127A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	4.6
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.2
Motor Oil	99	21	5.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	107	105	102	50-130
Hexacosane	29.8	26.2	114	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.04g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 11:05
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B15-5	Date Analyzed:	04/26/18 02:15
Lab Samp ID:	18D139-18	Dilution Factor:	1
Lab File ID:	LD24128A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	20.8
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	13	6.3
Motor Oil	ND	25	6.3

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	125	126	99	50-130
Hexacosane	33.8	31.6	107	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 09:48
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B14-2D	Date Analyzed:	04/26/18 02:32
Lab Samp ID:	18D139-19I	Dilution Factor:	5
Lab File ID:	LD24129A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	6.4
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	41J	53	27
Motor Oil	930	110	27

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	102	107	96	50-130
Hexacosane	29.4	26.7	110	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.04g	Final Volume :	10ml
Prepared by	: TWangc	Analyzed by :	SDeeso

QC SUMMARIES

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/23/18 16:30
Project	: POLA-1500 I STREET	Date Received:	04/23/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: MBLK1S	Date Analyzed:	04/25/18 19:01
Lab Samp ID:	DSD022SB	Dilution Factor:	1
Lab File ID:	LD24102A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	NA
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.0
Motor Oil	ND	20	5.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	104	100	104	50-130
Hexacosane	28.2	25.0	113	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3550B/8015B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: DSD022SB	DSD022SL	DSD022SC
LAB FILE ID	: LD24102A	LD24103A	LD24104A
DATE PREPARED	: 04/23/18 16:30	04/23/18 16:30	04/23/18 16:30
DATE ANALYZED	: 04/25/18 19:01	04/25/18 19:18	04/25/18 19:35
PREP BATCH	: 18DSD022S	18DSD022S	18DSD022S
CALIBRATION REF	: LD24093A	LD24093A	LD24093A

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	500	583	117	500	564	113	3	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	QCLimit (%)
Bromobenzene	100	106	106	100	106	106	50-130
Hexacosane	25.0	29.6	118	25.0	30.1	120	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3550B/8015B

MATRIX	: SOIL		% MOISTURE:13.5
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B7-15	B7-15MS	B7-15MSD
LAB SAMPLE ID	: 18D139-03	18D139-03M	18D139-03S
LAB FILE ID	: LD24110A	LD24111A	LD24112A
DATE PREPARED	: 04/23/18 16:30	04/23/18 16:30	04/23/18 16:30
DATE ANALYZED	: 04/25/18 21:15	04/25/18 21:32	04/25/18 21:48
PREP BATCH	: 18DSD022S	18DSD022S	18DSD022S
CALIBRATION REF	: LD24108A	LD24108A	LD24108A

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	578	670	116	578	670	116	0	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	QCLimit (%)
Bromobenzene	116	124	107	116	125	108	50-130
Hexacosane	28.9	33.2	115	28.9	32.1	111	40-160

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW3550B/SW8082
PCBs

SDG#: 18D139

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D139

METHOD SW3550B/SW8082
PCBS

A total of nineteen (19) soil samples were received on 04/17/18 to be analyzed for PCBs in accordance with Method SW3550B/SW8082 and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. 60D017SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. 60D017SL/60D017SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. D139-09M/S - all analytes were within MS QC limits. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Relative percentage difference (RPD) between the two results was evaluated. If RPD is less than 40% and peaks are well defined the higher result is reported. Where RPD is greater than 40% the chromatogram was checked for anomalies and results were selected based on processed knowledge. If there is no evidence of any chromatographic ambiguity, the higher result is reported.

Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample extracts subjected to appropriate cleanup technique to reduce matrix interference are recorded in extraction log. Refer to extraction log for details.

LAB CHRONICLE
PCBs

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D139
Instrument ID : 71

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	60D017SB	1	NA	04/24/1814:06	04/23/1816:32	KD24008A	KD24002A	CPD017S	Method Blank
LCS1S	60D017SL	1	NA	04/24/1814:26	04/23/1816:32	KD24009A	KD24002A	CPD017S	Lab Control Sample (LCS)
LCD1S	60D017SC	1	NA	04/24/1814:46	04/23/1816:32	KD24010A	KD24002A	CPD017S	LCS Duplicate
B7-5	D139-01	1	12.5	04/24/1815:06	04/23/1816:32	KD24011A	KD24002A	CPD017S	Field Sample
B7-10	D139-02	1	22.6	04/24/1815:26	04/23/1816:32	KD24012A	KD24002A	CPD017S	Field Sample
B7-15	D139-03	1	13.5	04/24/1815:47	04/23/1816:32	KD24013A	KD24002A	CPD017S	Field Sample
B8-0.5	D139-04	1	2.8	04/24/1816:07	04/23/1816:32	KD24014A	KD24002A	CPD017S	Field Sample
B8-2	D139-05	1	12.1	04/24/1816:27	04/23/1816:32	KD24015A	KD24002A	CPD017S	Field Sample
B8-5	D139-06	1	14.5	04/24/1816:47	04/23/1816:32	KD24016A	KD24002A	CPD017S	Field Sample
B8-10	D139-07	1	22.4	04/24/1817:07	04/23/1816:32	KD24017A	KD24002A	CPD017S	Field Sample
B9-0.5	D139-08	1	2.3	04/24/1817:28	04/23/1816:32	KD24018A	KD24002A	CPD017S	Field Sample
B9-2	D139-09	1	4.6	04/24/1817:48	04/23/1816:32	KD24019A	KD24002A	CPD017S	Field Sample
B9-2MS	D139-09M	1	4.6	04/24/1819:09	04/23/1816:32	KD24023A	KD24021A	CPD017S	Matrix Spike Sample (MS)
B9-2MSD	D139-09S	1	4.6	04/24/1819:29	04/23/1816:32	KD24024A	KD24021A	CPD017S	MS Duplicate (MSD)
B8-0.5D	D139-10	1	2.5	04/24/1819:49	04/23/1816:32	KD24025A	KD24021A	CPD017S	Field Sample
B14-0.5	D139-11	1	2.7	04/24/1820:09	04/23/1816:32	KD24026A	KD24021A	CPD017S	Field Sample
B14-2	D139-12	1	6.8	04/24/1820:30	04/23/1816:32	KD24027A	KD24021A	CPD017S	Field Sample
B14-5	D139-13	1	12.0	04/24/1820:50	04/23/1816:32	KD24028A	KD24021A	CPD017S	Field Sample
B14-10	D139-14	1	11.8	04/24/1821:10	04/23/1816:32	KD24029A	KD24021A	CPD017S	Field Sample
B14-15	D139-15	1	13.5	04/24/1821:30	04/23/1816:32	KD24030A	KD24021A	CPD017S	Field Sample
B15-0.5	D139-16	1	2.8	04/24/1821:50	04/23/1816:32	KD24031A	KD24021A	CPD017S	Field Sample
B15-2	D139-17	1	4.6	04/24/1822:10	04/23/1816:32	KD24032A	KD24021A	CPD017S	Field Sample
B15-5	D139-18	1	20.8	04/24/1823:51	04/23/1816:32	KD24037A	KD24034A	CPD017S	Field Sample
B14-2D	D139-19	1	6.4	04/25/1800:11	04/23/1816:32	KD24038A	KD24034A	CPD017S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B7-5	Date Analyzed	: 04/24/18 15:06
Lab Samp ID	: D139-01	Dilution Factor	: 1
Lab File ID	: KD24011A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 12.5
Calib. Ref.	: KD24002A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	57	19 | 19
PCB-1221	(ND) | ND	57	19 | 19
PCB-1232	(ND) | ND	57	19 | 19
PCB-1242	(ND) | ND	57	19 | 19
PCB-1248	(ND) | ND	57	19 | 19
PCB-1254	(ND) | ND	57	19 | 19
PCB-1260	(ND) | ND	57	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	15.60 | (16.65)	15.23	102 | (109)	50-130
DECACHLOROBIPHENYL	(18.94) | 17.28	15.23	(124) | 113	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:32
Sample ID:	B7-10	Date Analyzed:	04/24/18 15:26
Lab Samp ID:	D139-02	Dilution Factor:	1
Lab File ID:	KD24012A	Matrix	: SOIL
Ext Btch ID:	CPD017S	% Moisture	: 22.6
Calib. Ref.:	KD24002A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	65	22 | 22
PCB-1221	(ND) | ND	65	22 | 22
PCB-1232	(ND) | ND	65	22 | 22
PCB-1242	(ND) | ND	65	22 | 22
PCB-1248	(ND) | ND	65	22 | 22
PCB-1254	(ND) | ND	65	22 | 22
PCB-1260	(ND) | ND	65	22 | 22

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	16.51 | (18.24)	17.22	95.9 | (106)	50-130
DECACHLOROBIPHENYL	(20.27) | 18.12	17.22	(118) | 105	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
 * Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/23/18 16:32
Sample ID: B7-15	Date Analyzed: 04/24/18 15:47
Lab Samp ID: D139-03	Dilution Factor: 1
Lab File ID: KD24013A	Matrix : SOIL
Ext Btch ID: CPD017S	% Moisture : 13.5
Calib. Ref.: KD24002A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	58	19 | 19
PCB-1221	(ND) | ND	58	19 | 19
PCB-1232	(ND) | ND	58	19 | 19
PCB-1242	(ND) | ND	58	19 | 19
PCB-1248	(ND) | ND	58	19 | 19
PCB-1254	(ND) | ND	58	19 | 19
PCB-1260	(ND) | ND	58	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	14.34 | (16.00)	15.41	93.1 | (104)	50-130
DECACHLOROBIPHENYL	(18.00) | 16.35	15.41	(117) | 106	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:32
Sample ID	: B8-0.5	Date Analyzed:	04/24/18 16:07
Lab Samp ID	: D139-04	Dilution Factor:	1
Lab File ID	: KD24014A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 2.8
Calib. Ref.	: KD24002A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)		RL (ug/kg)	MDL (ug/kg)	
PCB-1016	(ND)	ND	51	17	17
PCB-1221	(ND)	ND	51	17	17
PCB-1232	(ND)	ND	51	17	17
PCB-1242	(ND)	ND	51	17	17
PCB-1248	(ND)	ND	51	17	17
PCB-1254	(250)	220	51	17	17
PCB-1260	(230)	200	51	17	17

SURROGATE PARAMETERS	RESULTS		SPK_AMT	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	12.48	(14.11)	13.71	91.0	(103)	50-130
DECACHLOROBIPHENYL	(15.88)	15.14	13.71	(116)	110	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B8-2	Date Analyzed	: 04/24/18 16:27
Lab Samp ID	: D139-05	Dilution Factor	: 1
Lab File ID	: KD24015A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 12.1
Calib. Ref.	: KD24002A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	57	19 | 19
PCB-1221	(ND) | ND	57	19 | 19
PCB-1232	(ND) | ND	57	19 | 19
PCB-1242	(ND) | ND	57	19 | 19
PCB-1248	(ND) | ND	57	19 | 19
PCB-1254	(ND) | ND	57	19 | 19
PCB-1260	(ND) | ND	57	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	14.55 | (14.61)	15.16	95.9 | (96.4)	50-130
DECACHLOROBIPHENYL	(21.16) | 15.46	15.16	(140) | 102	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B8-5	Date Analyzed	: 04/24/18 16:47
Lab Samp ID	: D139-06	Dilution Factor	: 1
Lab File ID	: KD24016A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 14.5
Calib. Ref.	: KD24002A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	58	20 | 20
PCB-1221	(ND) | ND	58	20 | 20
PCB-1232	(ND) | ND	58	20 | 20
PCB-1242	(ND) | ND	58	20 | 20
PCB-1248	(ND) | ND	58	20 | 20
PCB-1254	(ND) | ND	58	20 | 20
PCB-1260	(ND) | ND	58	20 | 20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	15.37 | (16.39)	15.59	98.6 | (105)	50-130
DECACHLOROBIPHENYL	(18.58) | 16.95	15.59	(119) | 109	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/23/18 16:32
Sample ID: B8-10	Date Analyzed: 04/24/18 17:07
Lab Samp ID: D139-07	Dilution Factor: 1
Lab File ID: KD24017A	Matrix : SOIL
Ext Btch ID: CPD017S	% Moisture : 22.4
Calib. Ref.: KD24002A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	64	22 | 22
PCB-1221	(ND) | ND	64	22 | 22
PCB-1232	(ND) | ND	64	22 | 22
PCB-1242	(ND) | ND	64	22 | 22
PCB-1248	(ND) | ND	64	22 | 22
PCB-1254	(ND) | ND	64	22 | 22
PCB-1260	(ND) | ND	64	22 | 22

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	15.75 | (17.31)	17.18	91.7 | (101)	50-130
DECACHLOROBIPHENYL	(19.92) | 19.52	17.18	(116) | 114	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:32
Sample ID:	B9-0.5	Date Analyzed:	04/24/18 17:28
Lab Samp ID:	D139-08	Dilution Factor:	1
Lab File ID:	KD24018A	Matrix :	SOIL
Ext Btch ID:	CPD017S	% Moisture :	2.3
Calib. Ref.:	KD24002A	Instrument ID :	GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	51	17 | 17
PCB-1221	(ND) | ND	51	17 | 17
PCB-1232	(ND) | ND	51	17 | 17
PCB-1242	(ND) | ND	51	17 | 17
PCB-1248	(ND) | ND	51	17 | 17
PCB-1254	(ND) | ND	51	17 | 17
PCB-1260	62 | (63)	51	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.39 | (14.49)	13.64	98.1 | (106)	50-130
DECACHLOROBIPHENYL	(14.60) | 14.17	13.64	(107) | 104	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B9-2	Date Analyzed	: 04/24/18 17:48
Lab Samp ID	: D139-09	Dilution Factor	: 1
Lab File ID	: KD24019A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 4.6
Calib. Ref.	: KD24002A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	52	18 | 18
PCB-1221	(ND) | ND	52	18 | 18
PCB-1232	(ND) | ND	52	18 | 18
PCB-1242	(ND) | ND	52	18 | 18
PCB-1248	(ND) | ND	52	18 | 18
PCB-1254	(ND) | ND	52	18 | 18
PCB-1260	(21J) | 25J	52	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.49 | (14.24)	13.97	96.5 | (102)	50-130
DECACHLOROBIPHENYL	(15.93) | 14.73	13.97	(114) | 105	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B8-0.5D	Date Analyzed	: 04/24/18 19:49
Lab Samp ID	: D139-10	Dilution Factor	: 1
Lab File ID	: KD24025A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 2.5
Calib. Ref.	: KD24021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	51	17 | 17
PCB-1221	(ND) | ND	51	17 | 17
PCB-1232	(ND) | ND	51	17 | 17
PCB-1242	(ND) | ND	51	17 | 17
PCB-1248	(ND) | ND	51	17 | 17
PCB-1254	(220) | 200	51	17 | 17
PCB-1260	(210) | 190	51	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	12.29 | (13.38)	13.67	89.9 | (97.8)	50-130
DECACHLOROBIPHENYL	(16.92) | 14.52	13.67	(124) | 106	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:32
Sample ID:	B14-0.5	Date Analyzed:	04/24/18 20:09
Lab Samp ID:	D139-11	Dilution Factor:	1
Lab File ID:	KD24026A	Matrix :	SOIL
Ext Btch ID:	CPD017S	% Moisture :	2.7
Calib. Ref.:	KD24021A	Instrument ID :	GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	51	17 | 17
PCB-1221	(ND) | ND	51	17 | 17
PCB-1232	(ND) | ND	51	17 | 17
PCB-1242	(ND) | ND	51	17 | 17
PCB-1248	(ND) | ND	51	17 | 17
PCB-1254	(ND) | ND	51	17 | 17
PCB-1260	(28J) | 26J	51	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	12.44 | (12.62)	13.70	90.8 | (92.1)	50-130
DECACHLOROBIPHENYL	(18.11) | 12.27	13.70	(132) | 89.6	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B14-2	Date Analyzed	: 04/24/18 20:30
Lab Samp ID	: D139-12	Dilution Factor	: 1
Lab File ID	: KD24027A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 6.8
Calib. Ref.	: KD24021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	54	18 | 18
PCB-1221	(ND) | ND	54	18 | 18
PCB-1232	(ND) | ND	54	18 | 18
PCB-1242	(ND) | ND	54	18 | 18
PCB-1248	(ND) | ND	54	18 | 18
PCB-1254	(ND) | ND	54	18 | 18
PCB-1260	35J | (40J)	54	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(12.48) | 11.92	14.30	(87.2) | 83.4	50-130
DECACHLOROBIPHENYL	(17.29) | 13.65	14.30	(121) | 95.4	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B14-5	Date Analyzed	: 04/24/18 20:50
Lab Samp ID	: D139-13	Dilution Factor	: 1
Lab File ID	: KD24028A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 12.0
Calib. Ref.	: KD24021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	57	19 | 19
PCB-1221	(ND) | ND	57	19 | 19
PCB-1232	(ND) | ND	57	19 | 19
PCB-1242	(ND) | ND	57	19 | 19
PCB-1248	(ND) | ND	57	19 | 19
PCB-1254	(ND) | ND	57	19 | 19
PCB-1260	(ND) | ND	57	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(13.51) | 12.87	15.15	(89.2) | 85.0	50-130
DECACHLOROBIPHENYL	(16.71) | 15.13	15.15	(110) | 99.9	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B14-10	Date Analyzed	: 04/24/18 21:10
Lab Samp ID	: D139-14	Dilution Factor	: 1
Lab File ID	: KD24029A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 11.8
Calib. Ref.	: KD24021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)		RL (ug/kg)	MDL (ug/kg)	
PCB-1016	(ND)	ND	57	19	19
PCB-1221	(ND)	ND	57	19	19
PCB-1232	(ND)	ND	57	19	19
PCB-1242	(ND)	ND	57	19	19
PCB-1248	(ND)	ND	57	19	19
PCB-1254	(ND)	ND	57	19	19
PCB-1260	(ND)	ND	57	19	19

SURROGATE PARAMETERS	RESULTS		SPK_AMT	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	14.40	(14.55)	15.11	95.3	(96.3)	50-130
DECACHLOROBIPHENYL	(16.45)	14.93	15.11	(109)	98.8	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/23/18 16:32
Sample ID: B14-15	Date Analyzed: 04/24/18 21:30
Lab Samp ID: D139-15	Dilution Factor: 1
Lab File ID: KD24030A	Matrix : SOIL
Ext Btch ID: CPD017S	% Moisture : 13.5
Calib. Ref.: KD24021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	58	19 | 19
PCB-1221	(ND) | ND	58	19 | 19
PCB-1232	(ND) | ND	58	19 | 19
PCB-1242	(ND) | ND	58	19 | 19
PCB-1248	(ND) | ND	58	19 | 19
PCB-1254	(ND) | ND	58	19 | 19
PCB-1260	(ND) | ND	58	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	14.85 | (15.46)	15.41	96.4 | (100)	50-130
DECACHLOROBIPHENYL	(17.47) | 15.40	15.41	(113) | 100	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:32
Sample ID:	B15-0.5	Date Analyzed:	04/24/18 21:50
Lab Samp ID:	D139-16	Dilution Factor:	1
Lab File ID:	KD24031A	Matrix	: SOIL
Ext Btch ID:	CPD017S	% Moisture	: 2.8
Calib. Ref.:	KD24021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	51	17 | 17
PCB-1221	(ND) | ND	51	17 | 17
PCB-1232	(ND) | ND	51	17 | 17
PCB-1242	(ND) | ND	51	17 | 17
PCB-1248	(ND) | ND	51	17 | 17
PCB-1254	(ND) | ND	51	17 | 17
PCB-1260	(ND) | ND	51	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.58 | (14.49)	13.71	99.0 | (106)	50-130
DECACHLOROBIPHENYL	(15.37) | 13.65	13.71	(112) | 99.6	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B15-2	Date Analyzed	: 04/24/18 22:10
Lab Samp ID	: D139-17	Dilution Factor	: 1
Lab File ID	: KD24032A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 4.6
Calib. Ref.	: KD24021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	52	18 | 18
PCB-1221	(ND) | ND	52	18 | 18
PCB-1232	(ND) | ND	52	18 | 18
PCB-1242	(ND) | ND	52	18 | 18
PCB-1248	(ND) | ND	52	18 | 18
PCB-1254	(ND) | ND	52	18 | 18
PCB-1260	(ND) | ND	52	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.73 | (14.23)	13.97	98.3 | (102)	50-130
DECACHLOROBIPHENYL	(15.61) | 13.81	13.97	(112) | 98.8	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/23/18 16:32
Sample ID: B15-5	Date Analyzed: 04/24/18 23:51
Lab Samp ID: D139-18	Dilution Factor: 1
Lab File ID: KD24037A	Matrix : SOIL
Ext Btch ID: CPD017S	% Moisture : 20.8
Calib. Ref.: KD24034A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	63	21 | 21
PCB-1221	(ND) | ND	63	21 | 21
PCB-1232	(ND) | ND	63	21 | 21
PCB-1242	(ND) | ND	63	21 | 21
PCB-1248	(ND) | ND	63	21 | 21
PCB-1254	(ND) | ND	63	21 | 21
PCB-1260	(ND) | ND	63	21 | 21

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	16.19 | (17.97)	16.83	96.2 | (107)	50-130
DECACHLOROBIPHENYL	(18.80) | 17.26	16.83	(112) | 103	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/23/18 16:32
Sample ID: B14-2D	Date Analyzed: 04/25/18 00:11
Lab Samp ID: D139-19	Dilution Factor: 1
Lab File ID: KD24038A	Matrix : SOIL
Ext Btch ID: CPD017S	% Moisture : 6.4
Calib. Ref.: KD24034A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	53	18 | 18
PCB-1221	(ND) | ND	53	18 | 18
PCB-1232	(ND) | ND	53	18 | 18
PCB-1242	(ND) | ND	53	18 | 18
PCB-1248	(ND) | ND	53	18 | 18
PCB-1254	(ND) | ND	53	18 | 18
PCB-1260	38J | (40J)	53	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.32 | (14.39)	14.24	93.5 | (101)	50-130
DECACHLOROBIPHENYL	(14.21) | 12.88	14.24	(99.8) | 90.5	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

QC SUMMARIES

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: NA
Project	: POLA-1500 I STREET	Date Received	: 04/23/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: MBLK1S	Date Analyzed	: 04/24/18 14:06
Lab Samp ID	: 60D017SB	Dilution Factor	: 1
Lab File ID	: KD24008A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: NA
Calib. Ref.	: KD24002A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	50	17 | 17
PCB-1221	(ND) | ND	50	17 | 17
PCB-1232	(ND) | ND	50	17 | 17
PCB-1242	(ND) | ND	50	17 | 17
PCB-1248	(ND) | ND	50	17 | 17
PCB-1254	(ND) | ND	50	17 | 17
PCB-1260	(ND) | ND	50	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(11.22) | 10.96	13.33	(84.1) | 82.3	60-130
DECACHLOROBIPHENYL	(15.41) | 13.42	13.33	(116) | 101	70-140

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D139
METHOD: SW3550B/SW8082

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	60D017SB	60D017SL	60D017SC		
LAB FILE ID:	KD24008A	KD24009A	KD24010A		
DATE EXTRACTED:	04/23/1816:32	04/23/1816:32	04/23/1816:32	DATE COLLECTED:	NA
DATE ANALYZED:	04/24/1814:06	04/24/1814:26	04/24/1814:46	DATE RECEIVED:	04/23/18
PREP. BATCH:	CPD017S	CPD017S	CPD017S		
CALIB. REF:	KD24002A	KD24002A	KD24002A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND)|ND	167	170|(172)	102|(103)	167	(175)|175	(105)|105	(3)|2	70-140	50
PCB-1260	(ND)|ND	167	(189)|175	(113)|105	167	(192)|182	(115)|109	(2)|4	70-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.33	(12.90)|12.72	(96.8)|95.4	13.33	13.21|(13.69)	99.1|(103)	60-130
Decachlorobiphenyl	13.33	(16.40)|14.31	(123)|107	13.33	(15.99)|14.24	(120)|107	70-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D139
METHOD: SW3550B/SW8082

MATRIX: SOIL % MOISTURE: 4.6

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	B9-2				
LAB SAMP ID:	D139-09	D139-09M	D139-09S		
LAB FILE ID:	KD24019A	KD24023A	KD24024A		
DATE EXTRACTED:	04/23/1816:32	04/23/1816:32	04/23/1816:32	DATE COLLECTED:	04/17/18
DATE ANALYZED:	04/24/1817:48	04/24/1819:09	04/24/1819:29	DATE RECEIVED:	04/17/18
PREP. BATCH:	CPD017S	CPD017S	CPD017S		
CALIB. REF:	KD24002A	KD24021A	KD24021A		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND)|ND	175	171|(183)	98|(105)	175	175|(180)	100|(103)	2|(2)	60-140	50
PCB-1260	(21J)|25J	175	(214)|213	(110)|108	175	(219)|217	(113)|110	(2)|2	10-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.97	15.12|(15.73)	108|(113)	13.97	14.40|(14.93)	103|(107)	50-130
Decachlorobiphenyl	13.97	(16.00)|15.44	(115)|110	13.97	(16.96)|14.98	(121)|107	50-150

* : Outside of QC limits

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METALS / MERCURY

SDG#: 18D139

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D139

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of nineteen (19) soil samples were received on 04/17/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD031SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD031SL/IPD031SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed and the following was noted: D139-01M/S - Percent recovery for Barium was not within MS/MSD QC limits. Presence of matrix interference was suspected. The rest of the analytes were in control. Analytical spike and serial dilution were analyzed and evaluated as appropriate. Results were within expected values. Refer to Matrix QC summary form for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D139
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
B7-5MS	D139-01M	1.000	12.5	04/23/1823:43	04/23/1811:24	ID8D018146	ID8D018144	IPD031S	Matrix Spike Sample (MS)
B7-5MSD	D139-01S	1.000	12.5	04/23/1823:47	04/23/1811:24	ID8D018147	ID8D018144	IPD031S	MS Duplicate (MSD)
B7-5	D139-01A	1.000	12.5	04/23/1823:51	04/23/1811:24	ID8D018148	ID8D018144	IPD031S	Analytical Spike Sample
B7-5	D139-01	1.000	12.5	04/23/1823:54	04/23/1811:24	ID8D018149	ID8D018144	IPD031S	Field Sample
B7-5	D139-01J	5.000	12.5	04/23/1823:58	04/23/1811:24	ID8D018150	ID8D018144	IPD031S	Diluted Sample
B7-10	D139-02	1.000	22.6	04/24/1800:02	04/23/1811:24	ID8D018151	ID8D018144	IPD031S	Field Sample
B7-15	D139-03	1.000	13.5	04/24/1800:06	04/23/1811:24	ID8D018152	ID8D018144	IPD031S	Field Sample
B8-0.5	D139-04	1.000	2.8	04/24/1800:09	04/23/1811:24	ID8D018153	ID8D018144	IPD031S	Field Sample
B8-2	D139-05	1.000	12.1	04/24/1800:13	04/23/1811:24	ID8D018154	ID8D018144	IPD031S	Field Sample
B8-5	D139-06	1.000	14.5	04/24/1800:17	04/23/1811:24	ID8D018155	ID8D018144	IPD031S	Field Sample
B8-10	D139-07	1.000	22.4	04/24/1800:28	04/23/1811:24	ID8D018158	ID8D018156	IPD031S	Field Sample
B9-0.5	D139-08	1.000	2.3	04/24/1800:32	04/23/1811:24	ID8D018159	ID8D018156	IPD031S	Field Sample
B9-2	D139-09	1.000	4.6	04/24/1800:36	04/23/1811:24	ID8D018160	ID8D018156	IPD031S	Field Sample
B8-0.5D	D139-10	1.000	2.5	04/24/1800:40	04/23/1811:24	ID8D018161	ID8D018156	IPD031S	Field Sample
B14-0.5	D139-11	1.000	2.7	04/24/1800:43	04/23/1811:24	ID8D018162	ID8D018156	IPD031S	Field Sample
B14-2	D139-12	1.000	6.8	04/24/1800:47	04/23/1811:24	ID8D018163	ID8D018156	IPD031S	Field Sample
B14-5	D139-13	1.000	12.0	04/24/1800:51	04/23/1811:24	ID8D018164	ID8D018156	IPD031S	Field Sample
B14-10	D139-14	1.000	11.8	04/24/1800:55	04/23/1811:24	ID8D018165	ID8D018156	IPD031S	Field Sample
B14-15	D139-15	1.000	13.5	04/24/1801:06	04/23/1811:24	ID8D018168	ID8D018166	IPD031S	Field Sample
B15-0.5	D139-16	1.000	2.8	04/24/1801:10	04/23/1811:24	ID8D018169	ID8D018166	IPD031S	Field Sample
B15-2	D139-17	1.000	4.6	04/24/1801:13	04/23/1811:24	ID8D018170	ID8D018166	IPD031S	Field Sample
B15-5	D139-1B	1.000	20.8	04/24/1801:17	04/23/1811:24	ID8D018171	ID8D018166	IPD031S	Field Sample
B14-2D	D139-19	1.000	6.4	04/24/1801:21	04/23/1811:24	ID8D018172	ID8D018166	IPD031S	Field Sample
MBLK1S	IPD031SB	1.000	NA	04/25/1812:11	04/23/1811:24	ID8D020020	ID8D020018	IPD031S	Method Blank
LCS1S	IPD031SL	1.000	NA	04/25/1812:15	04/23/1811:24	ID8D020021	ID8D020018	IPD031S	Lab Control Sample (LCS)
LCD1S	IPD031SC	1.000	NA	04/25/1812:19	04/23/1811:24	ID8D020022	ID8D020018	IPD031S	LCS Duplicate

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 09:09
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B7-5	Date Analyzed:	04/23/18 23:54
Lab Samp ID:	D139-01	Dilution Factor:	1
Lab File ID:	ID8D018149	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	12.5
Calib. Ref.:	ID8D018144	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.6	1.06
Arsenic	8.77	1.06	0.425
Barium	212	1.06	0.212
Beryllium	0.639J	1.06	0.212
Cadmium	ND	1.06	0.106
Chromium	31.1	1.06	0.212
Cobalt	13.1	1.06	0.212
Copper	20.1	1.06	0.212
Lead	6.73	1.06	0.212
Molybdenum	ND	5.31	0.531
Nickel	21.8	1.06	0.212
Selenium	1.59	1.06	0.531
Silver	ND	1.06	0.265
Thallium	ND	1.06	0.531
Vanadium	51.0	1.06	0.531
Zinc	57.5	2.12	1.06

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.077g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 09:19
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B7-10	Date Analyzed:	04/24/18 00:02
Lab Samp ID:	D139-02	Dilution Factor:	1
Lab File ID:	ID8D018151	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	22.6
Calib. Ref.:	ID8D018144	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	12.6	1.26
Arsenic	7.16	1.26	0.505
Barium	224	1.26	0.253
Beryllium	0.742J	1.26	0.253
Cadmium	ND	1.26	0.126
Chromium	42.2	1.26	0.253
Cobalt	20.4	1.26	0.253
Copper	43.9	1.26	0.253
Lead	9.84	1.26	0.253
Molybdenum	ND	6.32	0.632
Nickel	34.8	1.26	0.253
Selenium	2.00	1.26	0.632
Silver	ND	1.26	0.316
Thallium	ND	1.26	0.632
Vanadium	67.7	1.26	0.632
Zinc	100	2.53	1.26

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.022g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 09:28
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B7-15	Date Analyzed: 04/24/18 00:06
Lab Samp ID: D139-03	Dilution Factor: 1
Lab File ID: ID8D018152	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 13.5
Calib. Ref.: ID8D018144	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.4	1.14
Arsenic	3.50	1.14	0.457
Barium	27.4	1.14	0.229
Beryllium	ND	1.14	0.229
Cadmium	ND	1.14	0.114
Chromium	7.64	1.14	0.229
Cobalt	2.24	1.14	0.229
Copper	2.23	1.14	0.229
Lead	1.24	1.14	0.229
Molybdenum	ND	5.72	0.572
Nickel	2.89	1.14	0.229
Selenium	ND	1.14	0.572
Silver	ND	1.14	0.286
Thallium	ND	1.14	0.572
Vanadium	11.6	1.14	0.572
Zinc	10.0	2.29	1.14

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.011g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 11:22
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B8-0.5	Date Analyzed:	04/24/18 00:09
Lab Samp ID:	D139-04	Dilution Factor:	1
Lab File ID:	ID8D018153	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	2.8
Calib. Ref.:	ID8D018144	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	1.34J	9.85	0.985
Arsenic	19.9	0.985	0.394
Barium	159	0.985	0.197
Beryllium	0.334J	0.985	0.197
Cadmium	1.62	0.985	0.0985
Chromium	26.4	0.985	0.197
Cobalt	9.84	0.985	0.197
Copper	73.4	0.985	0.197
Lead	150	0.985	0.197
Molybdenum	2.34J	4.92	0.492
Nickel	26.2	0.985	0.197
Selenium	1.53	0.985	0.492
Silver	ND	0.985	0.246
Thallium	ND	0.985	0.492
Vanadium	38.0	0.985	0.492
Zinc	213	1.97	0.985

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.045g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 11:31
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B8-2	Date Analyzed: 04/24/18 00:13
Lab Samp ID: D139-05	Dilution Factor: 1
Lab File ID: ID8D018154	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 12.1
Calib. Ref.: ID8D018144	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	1.10
Arsenic	11.5	1.10	0.441
Barium	126	1.10	0.221
Beryllium	0.813J	1.10	0.221
Cadmium	ND	1.10	0.110
Chromium	38.2	1.10	0.221
Cobalt	15.8	1.10	0.221
Copper	26.1	1.10	0.221
Lead	11.5	1.10	0.221
Molybdenum	0.824J	5.52	0.552
Nickel	27.3	1.10	0.221
Selenium	2.09	1.10	0.552
Silver	ND	1.10	0.276
Thallium	ND	1.10	0.552
Vanadium	64.3	1.10	0.552
Zinc	70.1	2.21	1.10

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.031g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 11:46
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B8-5	Date Analyzed: 04/24/18 00:17
Lab Samp ID: D139-06	Dilution Factor: 1
Lab File ID: ID8D018155	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 14.5
Calib. Ref.: ID8D018144	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.5	1.15
Arsenic	11.0	1.15	0.460
Barium	108	1.15	0.230
Beryllium	0.612J	1.15	0.230
Cadmium	ND	1.15	0.115
Chromium	34.8	1.15	0.230
Cobalt	16.0	1.15	0.230
Copper	21.9	1.15	0.230
Lead	8.64	1.15	0.230
Molybdenum	0.608J	5.75	0.575
Nickel	24.1	1.15	0.230
Selenium	1.97	1.15	0.575
Silver	ND	1.15	0.287
Thallium	ND	1.15	0.575
Vanadium	57.8	1.15	0.575
Zinc	62.0	2.30	1.15

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.017g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 11:52
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B8-10	Date Analyzed:	04/24/18 00:28
Lab Samp ID:	D139-07	Dilution Factor:	1
Lab File ID:	ID8D018158	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	22.4
Calib. Ref.:	ID8D018156	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	12.3	1.23
Arsenic	9.28	1.23	0.494
Barium	250	1.23	0.247
Beryllium	0.589J	1.23	0.247
Cadmium	ND	1.23	0.123
Chromium	35.0	1.23	0.247
Cobalt	18.0	1.23	0.247
Copper	30.1	1.23	0.247
Lead	7.02	1.23	0.247
Molybdenum	ND	6.17	0.617
Nickel	29.4	1.23	0.247
Selenium	1.25	1.23	0.617
Silver	ND	1.23	0.309
Thallium	ND	1.23	0.617
Vanadium	55.3	1.23	0.617
Zinc	80.6	2.47	1.23

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.044g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 12:55
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B9-0.5	Date Analyzed:	04/24/18 00:32
Lab Samp ID:	D139-08	Dilution Factor:	1
Lab File ID:	ID8D018159	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	2.3
Calib. Ref.:	ID8D018156	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	2.37J	9.49	0.949
Arsenic	14.9	0.949	0.380
Barium	274	0.949	0.190
Beryllium	0.381J	0.949	0.190
Cadmium	1.71	0.949	0.0949
Chromium	45.8	0.949	0.190
Cobalt	11.8	0.949	0.190
Copper	205	0.949	0.190
Lead	124	0.949	0.190
Molybdenum	5.04	4.74	0.474
Nickel	39.8	0.949	0.190
Selenium	1.60	0.949	0.474
Silver	1.11	0.949	0.237
Thallium	ND	0.949	0.474
Vanadium	40.4	0.949	0.474
Zinc	633	1.90	0.949

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.079g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 13:01
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 1BD139	Date Extracted: 04/23/18 11:24
Sample ID: B9-2	Date Analyzed: 04/24/18 00:36
Lab Samp ID: D139-09	Dilution Factor: 1
Lab File ID: ID8D018160	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 4.6
Calib. Ref.: ID8D018156	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	1.28J	10.2	1.02
Arsenic	24.2	1.02	0.410
Barium	165	1.02	0.205
Beryllium	0.392J	1.02	0.205
Cadmium	0.459J	1.02	0.102
Chromium	32.1	1.02	0.205
Cobalt	12.3	1.02	0.205
Copper	49.2	1.02	0.205
Lead	56.2	1.02	0.205
Molybdenum	4.01J	5.12	0.512
Nickel	25.6	1.02	0.205
Selenium	1.45	1.02	0.512
Silver	ND	1.02	0.256
Thallium	ND	1.02	0.512
Vanadium	42.2	1.02	0.512
Zinc	159	2.05	1.02

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.024g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 11:24
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B8-0.5D	Date Analyzed:	04/24/18 00:40
Lab Samp ID:	D139-10	Dilution Factor:	1
Lab File ID:	ID8D018161	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	2.5
Calib. Ref.:	ID8D018156	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	1.81J	9.82	0.982
Arsenic	23.2	0.982	0.393
Barium	158	0.982	0.196
Beryllium	0.335J	0.982	0.196
Cadmium	1.99	0.982	0.09B2
Chromium	24.4	0.982	0.196
Cobalt	9.87	0.982	0.196
Copper	83.6	0.982	0.196
Lead	180	0.982	0.196
Molybdenum	2.17J	4.91	0.491
Nickel	25.B	0.982	0.196
Selenium	1.32	0.982	0.491
Silver	ND	0.982	0.245
Thallium	ND	0.982	0.491
Vanadium	38.2	0.982	0.491
Zinc	233	1.96	0.982

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.045g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 09:41
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B14-0.5	Date Analyzed: 04/24/18 00:43
Lab Samp ID: D139-11	Dilution Factor: 1
Lab File ID: ID8D018162	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 2.7
Calib. Ref.: ID8D018156	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	2.55J	9.61	0.961
Arsenic	9.29	0.961	0.384
Barium	265	0.961	0.192
Beryllium	0.302J	0.961	0.192
Cadmium	2.64	0.961	0.0961
Chromium	52.8	0.961	0.192
Cobalt	9.23	0.961	0.192
Copper	282	0.961	0.192
Lead	120	0.961	0.192
Molybdenum	5.46	4.80	0.480
Nickel	31.3	0.961	0.192
Selenium	1.21	0.961	0.480
Silver	0.327J	0.961	0.240
Thallium	ND	0.961	0.480
Vanadium	30.1	0.961	0.480
Zinc	543	1.92	0.961

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.069g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 09:46
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B14-2	Date Analyzed: 04/24/18 00:47
Lab Samp ID: D139-12	Dilution Factor: 1
Lab File ID: ID8D018163	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 6.8
Calib. Ref.: ID8D018156	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	1.56J	10.3	1.03
Arsenic	16.5	1.03	0.412
Barium	178	1.03	0.206
Beryllium	0.343J	1.03	0.206
Cadmium	0.723J	1.03	0.103
Chromium	40.4	1.03	0.206
Cobalt	10.7	1.03	0.206
Copper	48.0	1.03	0.206
Lead	187	1.03	0.206
Molybdenum	3.05J	5.14	0.514
Nickel	23.5	1.03	0.206
Selenium	1.17	1.03	0.514
Silver	ND	1.03	0.257
Thallium	ND	1.03	0.514
Vanadium	37.9	1.03	0.514
Zinc	152	2.06	1.03

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.043g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 10:06
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B14-5	Date Analyzed: 04/24/18 00:51
Lab Samp ID: D139-13	Dilution Factor: 1
Lab File ID: ID8D018164	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 12.0
Calib. Ref.: ID8D018156	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.2	1.12
Arsenic	6.61	1.12	0.448
Barium	166	1.12	0.224
Beryllium	0.624J	1.12	0.224
Cadmium	ND	1.12	0.112
Chromium	30.2	1.12	0.224
Cobalt	13.1	1.12	0.224
Copper	18.2	1.12	0.224
Lead	6.67	1.12	0.224
Molybdenum	ND	5.60	0.560
Nickel	24.0	1.12	0.224
Selenium	1.81	1.12	0.560
Silver	ND	1.12	0.280
Thallium	ND	1.12	0.560
Vanadium	51.2	1.12	0.560
Zinc	52.3	2.24	1.12

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.014g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 10:13
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B14-10	Date Analyzed: 04/24/18 00:55
Lab Samp ID: D139-14	Dilution Factor: 1
Lab File ID: ID8D018165	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 11.8
Calib. Ref.: ID8D018156	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.5	1.05
Arsenic	16.2	1.05	0.420
Barium	38.5	1.05	0.210
Beryllium	ND	1.05	0.210
Cadmium	ND	1.05	0.105
Chromium	12.1	1.05	0.210
Cobalt	3.32	1.05	0.210
Copper	4.64	1.05	0.210
Lead	1.71	1.05	0.210
Molybdenum	ND	5.24	0.524
Nickel	5.32	1.05	0.210
Selenium	0.644J	1.05	0.524
Silver	ND	1.05	0.262
Thallium	ND	1.05	0.524
Vanadium	17.2	1.05	0.524
Zinc	14.6	2.10	1.05

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.081g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 10:20
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B14-15	Date Analyzed:	04/24/18 01:06
Lab Samp ID:	D139-15	Dilution Factor:	1
Lab File ID:	ID8D018168	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	13.5
Calib. Ref.:	I08D018166	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.1	1.11
Arsenic	2.06	1.11	0.442
Barium	21.3	1.11	0.221
Beryllium	ND	1.11	0.221
Cadmium	ND	1.11	0.111
Chromium	6.38	1.11	0.221
Cobalt	2.08	1.11	0.221
Copper	3.53	1.11	0.221
Lead	1.20	1.11	0.221
Molybdenum	ND	5.53	0.553
Nickel	2.90	1.11	0.221
Selenium	0.603J	1.11	0.553
Silver	ND	1.11	0.276
Thallium	ND	1.11	0.553
Vanadium	15.5	1.11	0.553
Zinc	7.86	2.21	1.11

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.046g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 10:44
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B15-0.5	Date Analyzed: 04/24/18 01:10
Lab Samp ID: D139-16	Dilution Factor: 1
Lab File ID: ID8D018169	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 2.8
Calib. Ref.: ID8D018166	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	9.86	0.986
Arsenic	6.23	0.986	0.394
Barium	145	0.986	0.197
Beryllium	0.358J	0.986	0.197
Cadmium	0.605J	0.986	0.0986
Chromium	21.1	0.986	0.197
Cobalt	7.35	0.986	0.197
Copper	29.8	0.986	0.197
Lead	38.2	0.986	0.197
Molybdenum	2.29J	4.93	0.493
Nickel	20.7	0.986	0.197
Selenium	1.15	0.986	0.493
Silver	ND	0.986	0.246
Thallium	ND	0.986	0.493
Vanadium	31.4	0.986	0.493
Zinc	160	1.97	0.986

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.044g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 10:49
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B15-2	Date Analyzed:	04/24/18 01:13
Lab Samp ID:	D139-17	Dilution Factor:	1
Lab File ID:	ID8D018170	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	4.6
Calib. Ref.:	ID8D018166	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.4	1.04
Arsenic	7.77	1.04	0.416
Barium	156	1.04	0.208
Beryllium	0.401J	1.04	0.208
Cadmium	0.379J	1.04	0.104
Chromium	31.4	1.04	0.208
Cobalt	10.2	1.04	0.208
Copper	55.3	1.04	0.208
Lead	30.1	1.04	0.208
Molybdenum	2.21J	5.19	0.519
Nickel	18.8	1.04	0.208
Selenium	1.69	1.04	0.519
Silver	ND	1.04	0.260
Thallium	ND	1.04	0.519
Vanadium	37.2	1.04	0.519
Zinc	121	2.08	1.04

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.009g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 11:05
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B15-5	Date Analyzed:	04/24/18 01:17
Lab Samp ID:	D139-18	Dilution Factor:	1
Lab File ID:	ID8D018171	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	20.8
Calib. Ref.:	ID8D018166	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	12.2	1.22
Arsenic	6.41	1.22	0.488
Barium	286	1.22	0.244
Beryllium	0.569J	1.22	0.244
Cadmium	ND	1.22	0.122
Chromium	27.7	1.22	0.244
Cobalt	12.8	1.22	0.244
Copper	20.5	1.22	0.244
Lead	7.04	1.22	0.244
Molybdenum	ND	6.10	0.610
Nickel	26.9	1.22	0.244
Selenium	1.31	1.22	0.610
Silver	ND	1.22	0.305
Thallium	ND	1.22	0.610
Vanadium	43.9	1.22	0.610
Zinc	57.5	2.44	1.22

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.034g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 09:48
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B14-2D	Date Analyzed:	04/24/18 01:21
Lab Samp ID:	D139-19	Dilution Factor:	1
Lab File ID:	ID8D018172	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	6.4
Calib. Ref.:	ID8D018166	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	1.41J	10.4	1.04
Arsenic	16.7	1.04	0.417
Barium	181	1.04	0.208
Beryllium	0.337J	1.04	0.208
Cadmium	0.847J	1.04	0.104
Chromium	45.0	1.04	0.208
Cobalt	10.9	1.04	0.208
Copper	55.7	1.04	0.208
Lead	79.5	1.04	0.208
Molybdenum	2.88J	5.21	0.521
Nickel	24.3	1.04	0.208
Selenium	1.29	1.04	0.521
Silver	ND	1.04	0.260
Thallium	ND	1.04	0.521
Vanadium	38.5	1.04	0.521
Zinc	170	2.08	1.04

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.026g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	MBLK1S	Date Analyzed:	04/25/18 12:11
Lab Samp ID:	IPD031SB	Dilution Factor:	1
Lab File ID:	ID8D020020	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	NA
Calib. Ref.:	ID8D020018	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.0	1.00
Arsenic	ND	1.00	0.400
Barium	ND	1.00	0.200
Beryllium	ND	1.00	0.200
Cadmium	ND	1.00	0.100
Chromium	ND	1.00	0.200
Cobalt	ND	1.00	0.200
Copper	ND	1.00	0.200
Lead	ND	1.00	0.200
Molybdenum	ND	5.00	0.500
Nickel	ND	1.00	0.200
Selenium	ND	1.00	0.500
Silver	ND	1.00	0.250
Thallium	ND	1.00	0.500
Vanadium	ND	1.00	0.500
Zinc	ND	2.00	1.00

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPD031SB	IPD031SL	IPD031SC
LAB FILE ID	: ID8D020020	ID8D020021	ID8D020022
DATE PREPARED	: 04/23/18 11:24	04/23/18 11:24	04/23/18 11:24
DATE ANALYZED	: 04/25/18 12:11	04/25/18 12:15	04/25/18 12:19
PREP BATCH	: IPD031S	IPD031S	IPD031S
CALIBRATION REF	: ID8D020018	ID8D020018	ID8D020018

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Antimony	ND	250	240	96	250	239	96	0	80-120	20
Arsenic	ND	50	47.6	95	50	47.4	95	0	80-120	20
Barium	ND	50	49.0	98	50	48.8	98	0	80-120	20
Beryllium	ND	50	48.3	97	50	48.7	97	1	80-120	20
Cadmium	ND	50	46.7	93	50	46.7	93	0	80-120	20
Chromium	ND	50	48.4	97	50	48.7	97	1	80-120	20
Cobalt	ND	50	48.2	96	50	48.7	97	1	80-120	20
Copper	ND	50	46.0	92	50	46.6	93	1	80-120	20
Lead	ND	50	47.3	95	50	47.6	95	1	80-120	20
Molybdenum	ND	50	50.4	101	50	50.5	101	0	80-120	20
Nickel	ND	50	49.9	100	50	50.0	100	0	80-120	20
Selenium	ND	50	48.4	97	50	48.0	96	1	80-120	20
Silver	ND	50	42.3	85	50	42.3	85	0	80-120	20
Thallium	ND	50	44.7	89	50	44.6	89	0	80-120	20
Vanadium	ND	50	50.2	100	50	50.8	102	1	80-120	20
Zinc	ND	50	52.1	104	50	52.7	105	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE: 12.5
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B7-5	B7-5MS	B7-5MSD
LAB SAMPLE ID	: D139-01	D139-01M	D139-01S
LAB FILE ID	: ID8D018149	ID8D018146	ID8D018147
DATE PREPARED	: 04/23/18 11:24	04/23/18 11:24	04/23/18 11:24
DATE ANALYZED	: 04/23/18 23:54	04/23/18 23:43	04/23/18 23:47
PREP BATCH	: IPD031S	IPD031S	IPD031S
CALIBRATION REF	: ID8D018144	ID8D018144	ID8D018144

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Antimony	ND	278	217	78.1	272	213	78.3	2	75-125	20
Arsenic	8.77	55.5	61.1	94.3	54.3	60.3	94.9	1	75-125	20
Barium	212	55.5	234	39.6*	54.3	231	35.0*	1	75-125	20
Beryllium	0.639J	55.5	48.1	85.5	54.3	47.4	86.1	1	75-125	20
Cadmium	ND	55.5	47.2	85.0	54.3	47.0	86.6	0	75-125	20
Chromium	31.1	55.5	81.5	90.8	54.3	80.7	91.3	1	75-125	20
Cobalt	13.1	55.5	64.7	93.0	54.3	64.6	94.8	0	75-125	20
Copper	20.1	55.5	68.2	86.7	54.3	67.6	87.5	1	75-125	20
Lead	6.73	55.5	56.9	90.4	54.3	56.6	91.8	1	75-125	20
Molybdenum	ND	55.5	59.7	108	54.3	58.2	107	3	75-125	20
Nickel	21.8	55.5	71.4	89.4	54.3	71.6	91.7	0	75-125	20
Selenium	1.59	55.5	50.0	87.2	54.3	49.2	87.7	2	75-125	20
Silver	ND	55.5	46.9	84.5	54.3	46.3	85.3	1	75-125	20
Thallium	ND	55.5	48.1	86.7	54.3	47.8	88.0	1	75-125	20
Vanadium	51.0	55.5	104	95.5	54.3	104	97.6	0	75-125	20
Zinc	57.5	55.5	108	91.0	54.3	108	93.0	0	75-125	20

PSResult - Parent Sample Result
* Out of QC limit

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3050B/6010B

MATRIX	: SOIL	% MOISTURE: 12.5
DILUTION FACTOR:	1	5
SAMPLE ID	: B7-5	B7-5
LAB SAMPLE ID	: D139-01	D139-01J
LAB FILE ID	: ID8D018149	ID8D018150
DATE PREPARED	: 04/23/18 11:24	04/23/18 11:24
DATE ANALYZED	: 04/23/18 23:54	04/23/18 23:58
PREP BATCH	: IPD031S	IPD031S
CALIBRATION REF:	ID8D018144	ID8D018144

ACCESSION:

PARAMETERS	Sample Result (mg/kg)	SD Result (mg/kg)	%Difference (%)	Max %D (%)
Antimony	ND	ND	0	10
Arsenic	8.77	8.79	0	10
Barium	212	213	0	10
Beryllium	0.639J	ND	NA	10
Cadmium	ND	ND	0	10
Chromium	31.1	32.3	4	10
Cobalt	13.1	13.1	0	10
Copper	20.1	21.5	7	10
Lead	6.73	6.51	3	10
Molybdenum	ND	ND	0	10
Nickel	21.8	22.0	1	10
Selenium	1.59	4.07J	NA	10
Silver	ND	ND	0	10
Thallium	ND	ND	0	10
Vanadium	51.0	52.0	2	10
Zinc	57.5	56.9	1	10

SD - Serial Dilution

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3050B/6010B

MATRIX	: SOIL	% MOISTURE: 12.5
DILUTION FACTOR:	1	1
SAMPLE ID	: B7-5	B7-5
LAB SAMPLE ID	: D139-01	D139-01A
LAB FILE ID	: ID8D018149	ID8D018148
DATE PREPARED	: 04/23/18 11:24	04/23/18 11:24
DATE ANALYZED	: 04/23/18 23:54	04/23/18 23:51
PREP BATCH	: IPD031S	IPD031S
CALIBRATION REF:	ID8D018144	ID8D018144

ACCESSION:

PARAMETERS	Sample Result (mg/kg)	Spike Amt (mg/kg)	AS Result (mg/kg)	AS Rec (%)	QC Limit (%)
Antimony	ND	265	264	99	75-125
Arsenic	8.77	53.1	67.3	110	75-125
Barium	212	53.1	268	105	75-125
Beryllium	0.639J	53.1	53.2	99	75-125
Cadmium	ND	53.1	53.0	100	75-125
Chromium	31.1	53.1	88.3	108	75-125
Cobalt	13.1	53.1	70.4	108	75-125
Copper	20.1	53.1	74.3	102	75-125
Lead	6.73	53.1	63.8	108	75-125
Molybdenum	ND	53.1	60.3	114	75-125
Nickel	21.8	53.1	78.2	106	75-125
Selenium	1.59	53.1	55.0	101	75-125
Silver	ND	53.1	53.9	102	75-125
Thallium	ND	53.1	54.7	103	75-125
Vanadium	51.0	53.1	109	109	75-125
Zinc	57.5	53.1	117	112	75-125

AS - Analytical Spike

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D139

METHOD 7471A
MERCURY BY COLD VAPOR

A total of nineteen (19) soil samples were received on 04/17/18 to be analyzed for Mercury by Cold Vapor in accordance with Method 7471A and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. Mercury was not detected in HGD027SB. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. HGD027SL/HGD027SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Mercury was within MS QC limits in D139-08M/S. Refer to Matrix QC summary form for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D139
Instrument ID : 47

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	HGD027SB	1	NA	04/30/1818:27	04/30/1815:35	M47D017011	M47D017	18HGD027S	Method Blank
LCS1S	HGD027SL	1	NA	04/30/1818:28	04/30/1815:35	M47D017012	M47D017	18HGD027S	Lab Control Sample (LCS)
LCD1S	HGD027SC	1	NA	04/30/1818:31	04/30/1815:35	M47D017013	M47D017	18HGD027S	LCS Duplicate
B9-0.5	D139-08	1	2.3	04/30/1818:35	04/30/1815:35	M47D017015	M47D017	18HGD027S	Field Sample
B9-0.5MS	D139-08M	1	2.3	04/30/1818:40	04/30/1815:35	M47D017017	M47D017	18HGD027S	Matrix Spike Sample (MS)
B9-0.5MSD	D139-08S	1	2.3	04/30/1818:43	04/30/1815:35	M47D017018	M47D017	18HGD027S	MS Duplicate (MSD)
B7-5	D139-01	1	12.5	04/30/1818:45	04/30/1815:35	M47D017019	M47D017	18HGD027S	Field Sample
B7-10	D139-02	1	22.6	04/30/1818:46	04/30/1815:35	M47D017020	M47D017	18HGD027S	Field Sample
B7-15	D139-03	1	13.5	04/30/1818:53	04/30/1815:35	M47D017023	M47D017	18HGD027S	Field Sample
B8-0.5	D139-04	1	2.8	04/30/1818:55	04/30/1815:35	M47D017024	M47D017	18HGD027S	Field Sample
B8-2	D139-05	1	12.1	04/30/1818:57	04/30/1815:35	M47D017025	M47D017	18HGD027S	Field Sample
B8-5	D139-06	1	14.5	04/30/1818:59	04/30/1815:35	M47D017026	M47D017	18HGD027S	Field Sample
B8-10	D139-07	1	22.4	04/30/1819:01	04/30/1815:35	M47D017027	M47D017	18HGD027S	Field Sample
B9-2	D139-09	1	4.6	04/30/1819:03	04/30/1815:35	M47D017028	M47D017	18HGD027S	Field Sample
B8-0.5D	D139-10	1	2.5	04/30/1819:05	04/30/1815:35	M47D017029	M47D017	18HGD027S	Field Sample
B14-0.5	D139-11	1	2.7	04/30/1819:07	04/30/1815:35	M47D017030	M47D017	18HGD027S	Field Sample
B14-2	D139-12	1	6.8	04/30/1819:09	04/30/1815:35	M47D017031	M47D017	18HGD027S	Field Sample
B14-5	D139-13	1	12.0	04/30/1819:11	04/30/1815:35	M47D017032	M47D017	18HGD027S	Field Sample
B14-10	D139-14	1	11.8	04/30/1819:18	04/30/1815:35	M47D017035	M47D017	18HGD027S	Field Sample
B14-15	D139-15	1	13.5	04/30/1819:20	04/30/1815:35	M47D017036	M47D017	18HGD027S	Field Sample
B15-0.5	D139-16	1	2.8	04/30/1819:22	04/30/1815:35	M47D017037	M47D017	18HGD027S	Field Sample
B15-2	D139-17	1	4.6	04/30/1819:24	04/30/1815:35	M47D017038	M47D017	18HGD027S	Field Sample
B15-5	D139-18	1	20.8	04/30/1819:26	04/30/1815:35	M47D017039	M47D017	18HGD027S	Field Sample
B14-2D	D139-19	1	6.4	04/30/1819:28	04/30/1815:35	M47D017040	M47D017	18HGD027S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7471A
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET
Batch No. : 18D139

Matrix : SOIL
InstrumentID : 47

CLIENT SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/Kg)	DILT'N FACTOR	MOIST (%)	RL (mg/Kg)	MDL (mg/Kg)	ANALYSIS DATETIME	PREPARATION DATETIME	DATA FILE ID	CAL REF	PREP BATCH	COLLECTION DATETIME	RECEIVED DATETIME
MBLK1S	HGD027SB	ND	1	NA	0.100	0.0200	04/30/1818:27	04/30/1815:35	M47D017011	M47D017	18HGD027S	NA	NA
LCS1S	HGD027SL	0.430	1	NA	0.100	0.0200	04/30/1818:28	04/30/1815:35	M47D017012	M47D017	18HGD027S	NA	NA
LCD1S	HGD027SC	0.418	1	NA	0.100	0.0200	04/30/1818:31	04/30/1815:35	M47D017013	M47D017	18HGD027S	NA	NA
B9-0.5	D139-08	0.0870J	1	2.3	0.100	0.0200	04/30/1818:35	04/30/1815:35	M47D017015	M47D017	18HGD027S	04/17/1812:55	04/17/18
B9-0.5MS	D139-08M	0.553	1	2.3	0.0999	0.0200	04/30/1818:40	04/30/1815:35	M47D017017	M47D017	18HGD027S	04/17/1812:55	04/17/18
B9-0.5MSD	D139-08S	0.523	1	2.3	0.0997	0.0199	04/30/1818:43	04/30/1815:35	M47D017018	M47D017	18HGD027S	04/17/1812:55	04/17/18
B7-5	D139-01	0.0395J	1	12.5	0.113	0.0227	04/30/1818:45	04/30/1815:35	M47D017019	M47D017	18HGD027S	04/17/1809:09	04/17/18
B7-10	D139-02	0.0547J	1	22.6	0.124	0.0248	04/30/1818:46	04/30/1815:35	M47D017020	M47D017	18HGD027S	04/17/1809:19	04/17/18
B7-15	D139-03	ND	1	13.5	0.107	0.0215	04/30/1818:53	04/30/1815:35	M47D017023	M47D017	18HGD027S	04/17/1809:28	04/17/18
B8-0.5	D139-04	0.364	1	2.8	0.102	0.0203	04/30/1818:55	04/30/1815:35	M47D017024	M47D017	18HGD027S	04/17/1811:22	04/17/18
B8-2	D139-05	0.0387J	1	12.1	0.110	0.0221	04/30/1818:57	04/30/1815:35	M47D017025	M47D017	18HGD027S	04/17/1811:31	04/17/18
B8-5	D139-06	ND	1	14.5	0.116	0.0231	04/30/1818:59	04/30/1815:35	M47D017026	M47D017	18HGD027S	04/17/1811:46	04/17/18
B8-10	D139-07	ND	1	22.4	0.129	0.0258	04/30/1819:01	04/30/1815:35	M47D017027	M47D017	18HGD027S	04/17/1811:52	04/17/18
B9-2	D139-09	0.0858J	1	4.6	0.100	0.0200	04/30/1819:03	04/30/1815:35	M47D017028	M47D017	18HGD027S	04/17/1813:01	04/17/18
B8-0.5D	D139-10	0.381	1	2.5	0.101	0.0202	04/30/1819:05	04/30/1815:35	M47D017029	M47D017	18HGD027S	04/17/1811:24	04/17/18
B14-0.5	D139-11	0.106	1	2.7	0.101	0.0202	04/30/1819:07	04/30/1815:35	M47D017030	M47D017	18HGD027S	04/17/1809:41	04/17/18
B14-2	D139-12	0.0780J	1	6.8	0.105	0.0209	04/30/1819:09	04/30/1815:35	M47D017031	M47D017	18HGD027S	04/17/1809:46	04/17/18
B14-5	D139-13	ND	1	12.0	0.112	0.0224	04/30/1819:11	04/30/1815:35	M47D017032	M47D017	18HGD027S	04/17/1810:06	04/17/18
B14-10	D139-14	ND	1	11.8	0.113	0.0226	04/30/1819:18	04/30/1815:35	M47D017035	M47D017	18HGD027S	04/17/1810:13	04/17/18
B14-15	D139-15	ND	1	13.5	0.109	0.0217	04/30/1819:20	04/30/1815:35	M47D017036	M47D017	18HGD027S	04/17/1810:20	04/17/18
B15-0.5	D139-16	ND	1	2.8	0.101	0.0201	04/30/1819:22	04/30/1815:35	M47D017037	M47D017	18HGD027S	04/17/1810:44	04/17/18
B15-2	D139-17	0.0381J	1	4.6	0.104	0.0208	04/30/1819:24	04/30/1815:35	M47D017038	M47D017	18HGD027S	04/17/1810:49	04/17/18
B15-5	D139-18	0.0418J	1	20.8	0.122	0.0244	04/30/1819:26	04/30/1815:35	M47D017039	M47D017	18HGD027S	04/17/1811:05	04/17/18
B14-2D	D139-19	0.0946J	1	6.4	0.104	0.0207	04/30/1819:28	04/30/1815:35	M47D017040	M47D017	18HGD027S	04/17/1809:48	04/17/18

Note: Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : METHOD 7471A

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: HGD027SB	HGD027SL	HGD027SC
LAB FILE ID	: M47D017011	M47D017012	M47D017013
DATE PREPARED	: 04/30/1815:35	04/30/1815:35	04/30/1815:35
DATE ANALYZED	: 04/30/1818:27	04/30/1818:28	04/30/1818:31
PREP BATCH	: 18HGD027S	18HGD027S	18HGD027S
CALIBRATION REF:	M47D017	M47D017	M47D017

ACCESSION:

PARAMETERS	MBResult (mg/Kg)	SpikeAmt (mg/Kg)	LCSResult (mg/Kg)	LCSRec (%)	SpikeAmt (mg/Kg)	LCDResult (mg/Kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Mercury	ND	0.417	0.430	103	0.417	0.418	100	3	80-120	20

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : METHOD 7471A

MATRIX	: SOIL		% MOISTURE:2.3
DILUTION FACTOR:	1	1	1
SAMPLE ID	: B9-0.5	B9-0.5MS	B9-0.5MSD
LAB SAMPLE ID	: D139-08	D139-08M	D139-08S
LAB FILE ID	: M47D017015	M47D017017	M47D017018
DATE PREPARED	: 04/30/1815:35	04/30/1815:35	04/30/1815:35
DATE ANALYZED	: 04/30/1818:35	04/30/1818:40	04/30/1818:43
PREP BATCH	: 18HGD027S	18HGD027S	18HGD027S
CALIBRATION REF:	M47D017	M47D017	M47D017

ACCESSION:

PARAMETERS	PSResult (mg/Kg)	SpikeAmt (mg/Kg)	MSResult (mg/Kg)	MSRec (%)	SpikeAmt (mg/Kg)	MSDResult (mg/Kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Mercury	0.0870J	0.416	0.553	112	0.416	0.523	105	6	75-125	20

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 09:41
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139A	Date Extracted:	05/24/18 10:18
Sample ID:	B14-0.5	Date Analyzed:	05/24/18 16:25
Lab Samp ID:	D139-11I	Dilution Factor:	5
Lab File ID:	ID8E019054	Matrix:	LEACHATE
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Copper	3.69	0.250	0.0750
Lead	5.51	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D139A	Date Extracted:	05/24/18 10:18
Sample ID:	MBLK1W	Date Analyzed:	05/24/18 15:58
Lab Samp ID:	IPE028WB	Dilution Factor:	1
Lab File ID:	ID8E019047	Matrix:	WATER
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Copper	ND	0.0100	0.00300
Lead	ND	0.0100	0.00300

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 50ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D139A	Date Extracted:	05/24/18 10:18
Sample ID	: MBLK2W	Date Analyzed:	05/24/18 16:09
Lab Samp ID	: WTE003SB	Dilution Factor:	5
Lab File ID	: ID8E019050	Matrix:	LEACHATE
Ext Btch ID	: IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Copper	ND	0.250	0.0750
Lead	ND	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

D139-11I.TXT
IPE028WB.TXT
IPE028WC.TXT
IPE028WL.TXT
WTE003SB.TXT

```
00  ID8E019014  ICV        |
00  ID8E019015  ICB        |
00  ID8E019016  ICSA1      |
00  ID8E019017  ICSAB1     |
00  ID8E019019  CCV1       |
00  ID8E019020  CCB1       |
00  ID8E019045  CCV4       |
00  ID8E019046  CCB4       |
00  ID8E019047  IPE028WB   |
00  ID8E019048  IPE028WL   |
00  ID8E019049  IPE028WC   |
00  ID8E019050  WTE003SB   |
00  ID8E019054  D139-11I   |
00  ID8E019055  CCV5       |
00  ID8E019056  CCB5       |
```

"1","IPE028WB","ID8E019047"
"2","IPE028WL","ID8E019048"
"3","IPE028WC","ID8E019049"
"4","WTE003SB","ID8E019050"

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139A
METHOD : WET/3010A/6010B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: IPE028WB	IPE028WL	IPE028WC
LAB FILE ID	: ID8E019047	ID8E019048	ID8E019049
DATE PREPARED	: 05/24/18 10:18	05/24/18 10:18	05/24/18 10:18
DATE ANALYZED	: 05/24/18 15:58	05/24/18 16:02	05/24/18 16:06
PREP BATCH	: IPE028W	IPE028W	IPE028W
CALIBRATION REF	: ID8E019045	ID8E019045	ID8E019045

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Copper	ND	0.5	0.458	92	0.5	0.464	93	1	80-120	20
Lead	ND	0.5	0.460	92	0.5	0.465	93	1	80-120	20

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 05-11-2018
EMAX Batch No.: 18D145

Attn: Carrie Crozier

Parsons
100 West Walnut Street
Pasadena CA 91124

Subject: Laboratory Report
Project: POLA-1500 I STREET

Enclosed is the Laboratory report for samples received on 04/18/18.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
B11-10	D145-01	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B11-15	D145-02	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B12-0.5	D145-03	04/18/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				POLYCHLORINATED BIPHENYLS (PCBS)
B12-2	D145-04	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B12-5	D145-05	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B12-10	D145-06	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM

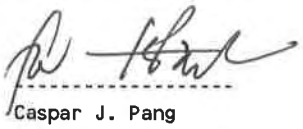
Sample ID	Control #	Col Date	Matrix	Analysis
B12-10	D145-06	04/18/18	SOIL	MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B13-0.5	D145-07	04/18/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				POLYCHLORINATED BIPHENYLS (PCBS)
B13-2	D145-08	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B13-5	D145-09	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B11-10D	D145-10	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B11	D145-11	04/18/18	WATER	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				VOLATILE ORGANICS BY GC/MS
				PAH BY 8270C SIM LOW
B13-10	D145-12	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B11-0.5	D145-13	04/18/18	SOIL	CANCELLED
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				POLYCHLORINATED BIPHENYLS (PCBS)
B11-2	D145-14	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS

Sample ID	Control #	Col Date	Matrix	Analysis
B11-2	D145-14	04/18/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B11-5	D145-15	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
EB	D145-16	04/18/18	WATER	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				VOLATILE ORGANICS BY GC/MS
				PAH BY 8270C SIM LOW
				METALS CAM
				MERCURY
TRIP BLANK	D145-17	04/18/18	WATER	VOLATILE ORGANICS BY GC/MS

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,



Caspar J. Pang
Laboratory Director

EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912017-13
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHAIN OF CUSTODY

EMAX Laboratories, Inc.	1835 W. 205th Street, Torrance, CA 90501 Tel # : 310-618-8889 FAX#: 310-618-0818 Email: info@emaxlabs.com	**PO NUMBER: 451077** SAMPLE STORAGE	**EMAX CONTROL NO.** 18D145 **PROJECT CODE:**

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

ANALYSIS REQUIRED: TPH; VOCs 8260; SVOCs 8270; Arsenic; Cadmium; Lead; Title 22 Metals; PCBs; PAHs; TCLP/STLC

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☑ 7 days
- ☐ 14 days
- ☐ 21 days

	SAMPLE ID		SAMPLING		CONTAINER			MATRIX CODE	QC	PRESERVATIVE CODE										COMMENTS
LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE			TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	
* 1	B11-10		4/18/18	0819	7			SS		X	X					X	X	X	H	Hold PCBs + PAHs + metals
* 2	B11-15		4/18/18	0834	7			SS		X	X					X	X	X	H	Hold PCBs + PAHs + metals
* 3	B12-0.5		4/18/18	0920	4			SS		X						X	X	X	H	
* 4	B12-2		4/18/18	0925	7			SS		X	X					X	X	X	H	Hold PCBs
* 5	B12-5		4/18/18	0934	7			SS		X	X					X	X	X	H	Hold PCBs + PAHs + metals
* 6	B12-10		4/18/18	0942	7			SS		X	X					X	X	X	H	Hold PCBs + PAHs + metals
* 7	B13-0.5		4/18/18	0839	4			SS		X						X	X	X	H	
* 8	B13-2		4/18/18	0850	7			SS		X	X					X	X	X	H	Hold PCBs
* 9	B13-5		4/18/18	0857	7			SS		X	X					X	X	X	H	Hold PCBs + PAHs + metals
10	B11-10D		4/18/18	~~0906~~ 0820	7					X	X					X	X	X	H	Hold PCBs + PAHs + metals

cc 4/18/18

Instructions	Cooler #	Temp. (°C)	Sample #s
	1	4.0	
	2	3.5	
	3	2.1	

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/18/18	1214	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5 00 per sample EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX Laboratories, Inc.	1835 W. 205th Street, Torrance, CA 90501 Tel # : 310-618-8889 FAX#: 310-618-0818 Email: info@emaxlabs.com	**PO NUMBER: 451077** SAMPLE STORAGE	**EMAX CONTROL NO.** 18D145 **PROJECT CODE:**

CLIENT Parsons for Port of LA
PROJECT POLA 1 Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT: ☐ Rush __24__hrs. ☐ Rush __48_hrs ☐ Rush_72_hrs ☑ 7 days ☐ 14 days ☐ 21 days

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
1	B11		4/18/18	0948	7			GW		X	X	X								
2	B13-10		4/18/18	0906	7			SS		X	X					X	X	X	H	Hold PCBs PAHs
3	B11-0.5		4/18/18	0732	4			SS		X	X					X	X	X	H	
4	B11-2		4/18/18	0736	7			SS		X	X					H	H	H	H	
5	B11-5		4/18/18	0805	7			SS		X	X					H	H	H	H	
6	EB		4/18/18	0815	8			W		X	X	X				X	X	X		
7	Trip Blank		4/15/18		3			W			X									
8																				
9																				
10																				

PRESERVATIVE CODE

Instructions	Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/17/18	1214	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise

SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 18D145
☐ Fedex ☐ UPS ☑ GSO ☐ Others		Recipient NERY
☐ EMAX Courier ☑ Client Delivery		Date 4/18/18 Time 12:14

COC INSPECTION

☑ Client Name	☑ Client PM/FC	☐ Sampler Name	☑ Sampling Date/Time	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☑ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: _____

PACKAGING INSPECTION

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☐ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☑ Cooler 1 4.0 °C	☑ Cooler 2 3.8 °C	☑ Cooler 3 2.1 °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	*A - S/N* _____	*B - S/N* 150555522	*C - S/N* _____	(D) *S/N* 150555030	

Comments: ☐ Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
11	65-70	D16	Preserved Accordingly	R8
15	95	D2	label	R1
17		D2	COC-Label: 4/18/18	
17	105-107	D22	EMAX Trip Blank TB-004-02-02 *	R1
1-15	1-7, 13, 15, 16,	D10		R8
↓	19-23, 26-64, 71,	↓		↓
↓	72-90	↓		R8
9	51	D3	label: TPH VOC	
11	71	D19	Label - TPH/SOV SVOC	Use 500ml for each test.
16	104	D19	Label - TPH/PCBs/PAH	Use 500 ml for TPH/PAHs only
Added 4/18 13		D8	No ferrous for VOC (Sbi+HCl)	
			4/18/18	

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS: Sample 11 has sediment at bottom of vials. PB 4/19/18

* No Label

☐ Continue to next page.

LEGEND:

Code	Description- Sample Management
D1	Analysis is not indicated in _____
D2	Analysis mismatch COC vs label
D3	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in label/COC
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
D10	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
D16	Preservation not indicated in label
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
D22	No label
D23	
D24	

Code	Description-Sample Management
R1	Proceed as indicated in ☒ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	Informed Client
R9	
R10	
R11	
R12	

REVIEWS:
Sample Labeling: Elsabel Mata / Cynthia — Date 4/18/18 / 4/18/18
SRF: Cynthia — Date 4/18/18
PM: NB — Date 4/18/18

Andy Mai

From: Andy Mai
Sent: Tuesday, May 01, 2018 3:46 PM
To: 'Carrie.Crozier@Parsons.com'
Cc: Richard Beauvil; Kim Tran
Subject: POLA-1550 I Street; 18D145 discrepancy
Attachments: 18D145.pdf

Hi Carrie,

The lab informed me that the set of VOA vials for sample B11-0.5 (D145-13) was not received. We will cancel the analysis requested for VOCs by 8260. Please let us know if there are any questions.

Thanks,
Andy Mai
EMAX Laboratories, Inc.
1835 W. 205th St.
Torrance, CA 90501
Tel: 310-618-8889 ext. 117
Fax: 310-618-0818
AMai@emaxlabs.com

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

A total of three (3) water samples were received on 04/18/18 to be analyzed for Volatile Organics by GC/MS in accordance with Method 5030B/8260B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VO05D10B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VO05D10L/VO05D10C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : 05

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V005D10B	1	NA	04/23/1815:41	04/23/1815:41	RDQ228	RJQ007	V005D10	Method Blank
LCS1W	V005D10L	1	NA	04/23/1814:26	04/23/1814:26	RDQ225	RJQ007	V005D10	Lab Control Sample (LCS)
LCD1W	V005D10C	1	NA	04/23/1814:50	04/23/1814:50	RDQ226	RJQ007	V005D10	LCS Duplicate
EB	D145-16	1	NA	04/23/1819:58	04/23/1819:58	RDQ238	RJQ007	V005D10	Field Sample
TRIP BLANK	D145-17	1	NA	04/23/1820:23	04/23/1820:23	RDQ239	RJQ007	V005D10	Field Sample
B11	D145-11	1	NA	04/23/1822:31	04/23/1822:31	RDQ244	RJQ007	V005D10	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/23/18 22:31
Sample ID: B11	Date Analyzed: 04/23/18 22:31
Lab Samp ID: D145-11	Dilution Factor: 1
Lab File ID: RDQ244	Matrix : WATER
Ext Btch ID: VO05D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	13J	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.7	10.00	107	70-140
4-BROMOFLUOROBENZENE	9.30	10.00	93.0	70-130
TOLUENE-D8	10.1	10.00	101	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/23/18 19:58
Sample ID: EB	Date Analyzed: 04/23/18 19:58
Lab Samp ID: D145-16	Dilution Factor: 1
Lab File ID: RDQ238	Matrix : WATER
Ext Btch ID: VOO5D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.2	10.00	102	70-140
4-BROMOFLUOROBENZENE	9.77	10.00	97.7	70-130
TOLUENE-D8	10.5	10.00	105	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/23/18 20:23
Sample ID: TRIP BLANK	Date Analyzed: 04/23/18 20:23
Lab Samp ID: D145-17	Dilution Factor: 1
Lab File ID: RDQ239	Matrix : WATER
Ext Btch ID: VQ05D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.4	10.00	104	70-140
4-BROMOFLUOROBENZENE	9.72	10.00	97.2	70-130
TOLUENE-D8	10.4	10.00	104	70-140

QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/23/18
Batch No. : 18D145	Date Extracted: 04/23/18 15:41
Sample ID: MBLK1W	Date Analyzed: 04/23/18 15:41
Lab Samp ID: V005D10B	Dilution Factor: 1
Lab File ID: RDQ228	Matrix : WATER
Ext Btch ID: V005D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.2	10.00	102	70-140
4-BROMOFLUOROBENZENE	9.80	10.00	98.0	70-130
TOLUENE-D8	10.4	10.00	104	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D145
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VO05D10B	VO05D10L	VO05D10C		
LAB FILE ID:	RDQ228	RDQ225	RDQ226		
DATE EXTRACTED:	04/23/1815:41	04/23/1814:26	04/23/1814:50	DATE COLLECTED:	NA
DATE ANALYZED:	04/23/1815:41	04/23/1814:26	04/23/1814:50	DATE RECEIVED:	04/23/18
PREP. BATCH:	VO05D10	VO05D10	VO05D10		
CALIB. REF:	RJQ007	RJQ007	RJQ007		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	9.56	96	10.0	9.31	93	3	60-130	20
Benzene	ND	10.0	9.52	95	10.0	9.28	93	3	70-130	20
Chlorobenzene	ND	10.0	9.33	93	10.0	9.34	93	0	70-120	20
Toluene	ND	10.0	9.60	96	10.0	9.29	93	3	70-130	20
Trichloroethene	ND	10.0	9.00	90	10.0	8.78	88	2	70-130	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.5	105	10.0	10.3	103	70-140
4-Bromofluorobenzene	10.0	9.32	93	10.0	9.40	94	70-130
Toluene-d8	10.0	10.4	104	10.0	10.1	101	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

A total of eleven (11) soil samples were received on 04/18/18 to be analyzed for Volatile Organics by GC/MS in accordance with Method 5035A/8260B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, two (2) method blanks were analyzed. VS03D10B and VS03D11B were compliant to project requirement. Refer to sample result summary forms for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, two (2) sets of LCS/LCD were analyzed. VS03D10L/VS03D10C and VS03D11L/VS03D11C were within LCS limits. Refer to LCS summary forms for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Instrument ID : 03

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	VS03D10B	1	NA	04/19/1812:37	04/19/1812:37	RDB203	RDB172	VS03D10	Method Blank
LCS1S	VS03D10L	1	NA	04/19/1811:13	04/19/1811:13	RDB200	RDB172	VS03D10	Lab Control Sample (LCS)
LCD1S	VS03D10C	1	NA	04/19/1811:41	04/19/1811:41	RDB201	RDB172	VS03D10	LCS Duplicate
B11-10	D145-01	0.94	22.7	04/19/1814:29	04/19/1814:29	RDB207	RDB172	VS03D10	Field Sample
B11-15	D145-02	0.72	14.3	04/19/1814:56	04/19/1814:56	RDB208	RDB172	VS03D10	Field Sample
B12-2	D145-04	1.16	5.3	04/19/1815:24	04/19/1815:24	RDB209	RDB172	VS03D10	Field Sample
B12-5	D145-05	1.1	12.5	04/19/1815:51	04/19/1815:51	RDB210	RDB172	VS03D10	Field Sample
B12-10	D145-06	0.94	25.5	04/19/1816:20	04/19/1816:20	RDB211	RDB172	VS03D10	Field Sample
B13-2	D145-08	0.99	8.1	04/19/1816:47	04/19/1816:47	RDB212	RDB172	VS03D10	Field Sample
B13-5	D145-09	1.24	6.9	04/19/1817:15	04/19/1817:15	RDB213	RDB172	VS03D10	Field Sample
B11-10D	D145-10	0.97	21.7	04/19/1817:43	04/19/1817:43	RDB214	RDB172	VS03D10	Field Sample
B13-10	D145-12	0.8	13.7	04/19/1818:11	04/19/1818:11	RDB215	RDB172	VS03D10	Field Sample
MBLK2S	VS03D11B	1	NA	04/27/1816:51	04/27/1816:51	RDB222	RDB172	VS03D11	Method Blank
LCS2S	VS03D11L	1	NA	04/27/1815:28	04/27/1815:28	RDB219	RDB172	VS03D11	Lab Control Sample (LCS)
LCD2S	VS03D11C	1	NA	04/27/1815:56	04/27/1815:56	RDB220	RDB172	VS03D11	LCS Duplicate
B11-2	D145-14	1.31	5.8	04/27/1817:18	04/27/1817:18	RDB223	RDB172	VS03D11	Field Sample
B11-5	D145-15	1.1	10.8	04/27/1818:14	04/27/1818:14	RDB225	RDB172	VS03D11	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 14:29
Sample ID: B11-10	Date Analyzed: 04/19/18 14:29
Lab Samp ID: D145-01	Dilution Factor: 0.94
Lab File ID: RDB207	Matrix : SOIL
Ext.Btch ID: VS03D10	% Moisture : 22.7
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.1	1.2
1,1,1-TRICHLOROETHANE	ND	6.1	1.2
1,1,2,2-TETRACHLOROETHANE	ND	6.1	1.2
1,1,2-TRICHLOROETHANE	ND	6.1	1.2
1,1-DICHLOROETHANE	ND	6.1	1.2
1,1-DICHLOROETHENE	ND	6.1	1.2
1,1-DICHLOROPROPENE	ND	6.1	1.2
1,2,3-TRICHLOROBENZENE	ND	6.1	2.4
1,2,3-TRICHLOROPROPANE	ND	6.1	2.4
1,2,4-TRICHLOROBENZENE	ND	6.1	2.4
1,2,4-TRIMETHYLBENZENE	ND	6.1	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.1	2.4
1,2-DIBROMOETHANE	ND	6.1	1.2
1,2-DICHLOROBENZENE	ND	6.1	1.2
1,2-DICHLOROETHANE	ND	6.1	1.2
1,2-DICHLOROPROPANE	ND	6.1	1.2
1,3,5-TRIMETHYLBENZENE	ND	6.1	1.2
1,3-DICHLOROBENZENE	ND	6.1	1.2
1,3-DICHLOROPROPANE	ND	6.1	1.2
1,4-DICHLOROBENZENE	ND	6.1	1.2
2,2-DICHLOROPROPANE	ND	6.1	2.4
2-BUTANONE	ND	12	6.1
2-CHLOROTOLUENE	ND	6.1	1.2
2-HEXANONE	ND	12	6.1
4-CHLOROTOLUENE	ND	6.1	1.2
ACETONE	11J	12	6.1
BENZENE	1.7J	6.1	1.2
BROMOBENZENE	ND	6.1	1.2
BROMOCHLOROMETHANE	ND	6.1	1.2
BROMODICHLOROMETHANE	ND	6.1	1.2
BROMOFORM	ND	6.1	2.4
BROMOMETHANE	ND	6.1	2.4
CARBON DISULFIDE	ND	6.1	1.2
CARBON TETRACHLORIDE	ND	6.1	1.2
CHLOROBENZENE	ND	6.1	1.2
CHLOROETHANE	ND	6.1	2.4
CHLOROFORM	ND	6.1	1.2
CHLOROMETHANE	ND	6.1	2.4
CIS-1,2-DICHLOROETHENE	ND	6.1	1.2
CIS-1,3-DICHLOROPROPENE	ND	6.1	1.2
DIBROMOCHLOROMETHANE	ND	6.1	1.2
DICHLORODIFLUOROMETHANE	ND	6.1	2.4
ETHYLBENZENE	ND	6.1	1.2
ISOPROPYL BENZENE	ND	6.1	1.2
M,P-XYLENES	ND	12	2.4
MIBK	ND	12	6.1
METHYLENE CHLORIDE	ND	6.1	2.4
MTBE	ND	6.1	1.2
NAPHTHALENE	ND	6.1	2.4
N-BUTYLBENZENE	ND	6.1	1.2
N-PROPYLBENZENE	ND	6.1	1.2
O-XYLENE	ND	6.1	1.2
P-ISOPROPYLTOLUENE	ND	6.1	1.2
SEC-BUTYLBENZENE	ND	6.1	1.2
STYRENE	ND	6.1	1.2
TERT-BUTYLBENZENE	ND	6.1	1.2
TETRACHLOROETHENE	ND	6.1	1.2
TOLUENE	1.4J	6.1	1.2
TRANS-1,2-DICHLOROETHENE	ND	6.1	1.2
TRANS-1,3-DICHLOROPROPENE	ND	6.1	1.2
TRICHLOROETHENE	ND	6.1	1.2
TRICHLOROFLUOROMETHANE	ND	6.1	2.4
VINYL CHLORIDE	ND	6.1	2.4
VINYL ACETATE	ND	6.1	2.4
FREON113	ND	6.1	2.4
DIBROMOMETHANE	ND	6.1	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	48.9	60.80	80.4	60-160
4-BROMOFLUOROBENZENE	74.4	60.80	122	70-150
TOLUENE-D8	63.2	60.80	104	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 14:56
Sample ID: B11-15	Date Analyzed: 04/19/18 14:56
Lab Samp ID: D145-02	Dilution Factor: 0.72
Lab File ID: RDB208	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 14.3
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.2	0.84
1,1,1-TRICHLOROETHANE	ND	4.2	0.84
1,1,2,2-TETRACHLOROETHANE	ND	4.2	0.84
1,1,2-TRICHLOROETHANE	ND	4.2	0.84
1,1-DICHLOROETHANE	ND	4.2	0.84
1,1-DICHLOROETHENE	ND	4.2	0.84
1,1-DICHLOROPROPENE	ND	4.2	0.84
1,2,3-TRICHLOROBENZENE	ND	4.2	1.7
1,2,3-TRICHLOROPROPANE	ND	4.2	1.7
1,2,4-TRICHLOROBENZENE	ND	4.2	1.7
1,2,4-TRIMETHYLBENZENE	ND	4.2	0.84
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.2	1.7
1,2-DIBROMOETHANE	ND	4.2	0.84
1,2-DICHLOROBENZENE	ND	4.2	0.84
1,2-DICHLOROETHANE	ND	4.2	0.84
1,2-DICHLOROPROPANE	ND	4.2	0.84
1,3,5-TRIMETHYLBENZENE	ND	4.2	0.84
1,3-DICHLOROBENZENE	ND	4.2	0.84
1,3-DICHLOROPROPANE	ND	4.2	0.84
1,4-DICHLOROBENZENE	ND	4.2	0.84
2,2-DICHLOROPROPANE	ND	4.2	1.7
2-BUTANONE	ND	8.4	4.2
2-CHLOROTOLUENE	ND	4.2	0.84
2-HEXANONE	ND	8.4	4.2
4-CHLOROTOLUENE	ND	4.2	0.84
ACETONE	ND	8.4	4.2
BENZENE	ND	4.2	0.84
BROMOBENZENE	ND	4.2	0.84
BROMOCHLOROMETHANE	ND	4.2	0.84
BROMODICHLOROMETHANE	ND	4.2	0.84
BROMOFORM	ND	4.2	1.7
BROMOMETHANE	ND	4.2	1.7
CARBON DISULFIDE	ND	4.2	0.84
CARBON TETRACHLORIDE	ND	4.2	0.84
CHLOROBENZENE	ND	4.2	0.84
CHLOROETHANE	ND	4.2	1.7
CHLOROFORM	ND	4.2	0.84
CHLOROMETHANE	ND	4.2	1.7
CIS-1,2-DICHLOROETHENE	ND	4.2	0.84
CIS-1,3-DICHLOROPROPENE	ND	4.2	0.84
DIBROMOCHLOROMETHANE	ND	4.2	0.84
DICHLORODIFLUOROMETHANE	ND	4.2	1.7
ETHYLBENZENE	ND	4.2	0.84
ISOPROPYL BENZENE	ND	4.2	0.84
M,P-XYLENES	ND	8.4	1.7
MIBK	ND	8.4	4.2
METHYLENE CHLORIDE	ND	4.2	1.7
MTBE	ND	4.2	0.84
NAPHTHALENE	ND	4.2	1.7
N-BUTYLBENZENE	ND	4.2	0.84
N-PROPYLBENZENE	ND	4.2	0.84
O-XYLENE	ND	4.2	0.84
P-ISOPROPYLTOLUENE	ND	4.2	0.84
SEC-BUTYLBENZENE	ND	4.2	0.84
STYRENE	ND	4.2	0.84
TERT-BUTYLBENZENE	ND	4.2	0.84
TETRACHLOROETHENE	ND	4.2	0.84
TOLUENE	ND	4.2	0.84
TRANS-1,2-DICHLOROETHENE	ND	4.2	0.84
TRANS-1,3-DICHLOROPROPENE	ND	4.2	0.84
TRICHLOROETHENE	ND	4.2	0.84
TRICHLOROFLUOROMETHANE	ND	4.2	1.7
VINYL CHLORIDE	ND	4.2	1.7
VINYL ACETATE	ND	4.2	1.7
FREON113	ND	4.2	1.7
DIBROMOMETHANE	ND	4.2	0.84

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	43.0	42.01	102	60-160
4-BROMOFLUOROBENZENE	43.5	42.01	104	70-150
TOLUENE-D8	40.1	42.01	95.5	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 15:24
Sample ID: B12-2	Date Analyzed: 04/19/18 15:24
Lab Samp ID: D145-04	Dilution Factor: 1.16
Lab File ID: RDB209	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 5.3
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.1	1.2
1,1,1-TRICHLOROETHANE	ND	6.1	1.2
1,1,2,2-TETRACHLOROETHANE	ND	6.1	1.2
1,1,2-TRICHLOROETHANE	ND	6.1	1.2
1,1-DICHLOROETHANE	ND	6.1	1.2
1,1-DICHLOROETHENE	ND	6.1	1.2
1,1-DICHLOROPROPENE	ND	6.1	1.2
1,2,3-TRICHLOROBENZENE	ND	6.1	2.4
1,2,3-TRICHLOROPROPANE	ND	6.1	2.4
1,2,4-TRICHLOROBENZENE	ND	6.1	2.4
1,2,4-TRIMETHYLBENZENE	4.6J	6.1	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.1	2.4
1,2-DIBROMOETHANE	ND	6.1	1.2
1,2-DICHLOROBENZENE	ND	6.1	1.2
1,2-DICHLOROETHANE	ND	6.1	1.2
1,2-DICHLOROPROPANE	ND	6.1	1.2
1,3,5-TRIMETHYLBENZENE	1.7J	6.1	1.2
1,3-DICHLOROBENZENE	ND	6.1	1.2
1,3-DICHLOROPROPANE	ND	6.1	1.2
1,4-DICHLOROBENZENE	ND	6.1	1.2
2,2-DICHLOROPROPANE	ND	6.1	2.4
2-BUTANONE	10J	12	6.1
2-CHLOROTOLUENE	ND	6.1	1.2
2-HEXANONE	9.1J	12	6.1
4-CHLOROTOLUENE	ND	6.1	1.2
ACETONE	87	12	6.1
BENZENE	1.2J	6.1	1.2
BROMOBENZENE	ND	6.1	1.2
BROMOCHLOROMETHANE	ND	6.1	1.2
BROMODICHLOROMETHANE	ND	6.1	1.2
BROMOFORM	ND	6.1	2.4
BROMOMETHANE	ND	6.1	2.4
CARBON DISULFIDE	ND	6.1	1.2
CARBON TETRACHLORIDE	ND	6.1	1.2
CHLOROBENZENE	ND	6.1	1.2
CHLOROETHANE	ND	6.1	2.4
CHLOROFORM	ND	6.1	1.2
CHLOROMETHANE	ND	6.1	2.4
CIS-1,2-DICHLOROETHENE	ND	6.1	1.2
CIS-1,3-DICHLOROPROPENE	ND	6.1	1.2
DIBROMOCHLOROMETHANE	ND	6.1	1.2
DICHLORODIFLUOROMETHANE	ND	6.1	2.4
ETHYLBENZENE	ND	6.1	1.2
ISOPROPYL BENZENE	ND	6.1	1.2
M,P-XYLENES	4.7J	12	2.4
MIBK	ND	12	6.1
METHYLENE CHLORIDE	ND	6.1	2.4
MTBE	ND	6.1	1.2
NAPHTHALENE	ND	6.1	2.4
N-BUTYLBENZENE	ND	6.1	1.2
N-PROPYLBENZENE	ND	6.1	1.2
O-XYLENE	2.3J	6.1	1.2
P-ISOPROPYLTOLUENE	ND	6.1	1.2
SEC-BUTYLBENZENE	ND	6.1	1.2
STYRENE	ND	6.1	1.2
TERT-BUTYLBENZENE	ND	6.1	1.2
TETRACHLOROETHENE	ND	6.1	1.2
TOLUENE	1.5J	6.1	1.2
TRANS-1,2-DICHLOROETHENE	ND	6.1	1.2
TRANS-1,3-DICHLOROPROPENE	ND	6.1	1.2
TRICHLOROETHENE	ND	6.1	1.2
TRICHLOROFLUOROMETHANE	ND	6.1	2.4
VINYL CHLORIDE	ND	6.1	2.4
VINYL ACETATE	ND	6.1	2.4
FREON113	ND	6.1	2.4
DIBROMOMETHANE	ND	6.1	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	59.4	61.25	97.0	60-160
4-BROMOFLUOROBENZENE	84.4	61.25	138	70-150
TOLUENE-D8	62.8	61.25	103	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 15:51
Sample ID: B12-5	Date Analyzed: 04/19/18 15:51
Lab Samp ID: D145-05	Dilution Factor: 1.1
Lab File ID: RDB210	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 12.5
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.3	1.3
1,1,1-TRICHLOROETHANE	ND	6.3	1.3
1,1,2,2-TETRACHLOROETHANE	ND	6.3	1.3
1,1,2-TRICHLOROETHANE	ND	6.3	1.3
1,1-DICHLOROETHANE	ND	6.3	1.3
1,1-DICHLOROETHENE	ND	6.3	1.3
1,1-DICHLOROPROPENE	ND	6.3	1.3
1,2,3-TRICHLOROBENZENE	ND	6.3	2.5
1,2,3-TRICHLOROPROPANE	ND	6.3	2.5
1,2,4-TRICHLOROBENZENE	ND	6.3	2.5
1,2,4-TRIMETHYLBENZENE	ND	6.3	1.3
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.3	2.5
1,2-DIBROMOETHANE	ND	6.3	1.3
1,2-DICHLOROBENZENE	ND	6.3	1.3
1,2-DICHLOROETHANE	ND	6.3	1.3
1,2-DICHLOROPROPANE	ND	6.3	1.3
1,3,5-TRIMETHYLBENZENE	ND	6.3	1.3
1,3-DICHLOROBENZENE	ND	6.3	1.3
1,3-DICHLOROPROPANE	ND	6.3	1.3
1,4-DICHLOROBENZENE	ND	6.3	1.3
2,2-DICHLOROPROPANE	ND	6.3	2.5
2-BUTANONE	ND	13	6.3
2-CHLOROTOLUENE	ND	6.3	1.3
2-HEXANONE	ND	13	6.3
4-CHLOROTOLUENE	ND	6.3	1.3
ACETONE	19	13	6.3
BENZENE	1.3J	6.3	1.3
BROMOBENZENE	ND	6.3	1.3
BROMOCHLOROMETHANE	ND	6.3	1.3
BROMODICHLOROMETHANE	ND	6.3	1.3
BROMOFORM	ND	6.3	2.5
BROMOMETHANE	ND	6.3	2.5
CARBON DISULFIDE	ND	6.3	1.3
CARBON TETRACHLORIDE	ND	6.3	1.3
CHLOROBENZENE	ND	6.3	1.3
CHLOROETHANE	ND	6.3	2.5
CHLOROFORM	ND	6.3	1.3
CHLOROMETHANE	ND	6.3	2.5
CIS-1,2-DICHLOROETHENE	ND	6.3	1.3
CIS-1,3-DICHLOROPROPENE	ND	6.3	1.3
DIBROMOCHLOROMETHANE	ND	6.3	1.3
DICHLORODIFLUOROMETHANE	ND	6.3	2.5
ETHYLBENZENE	ND	6.3	1.3
ISOPROPYL BENZENE	ND	6.3	1.3
M,P-XYLENES	ND	13	2.5
MIBK	ND	13	6.3
METHYLENE CHLORIDE	ND	6.3	2.5
MTBE	ND	6.3	1.3
NAPHTHALENE	ND	6.3	2.5
N-BUTYLBENZENE	ND	6.3	1.3
N-PROPYLBENZENE	ND	6.3	1.3
O-XYLENE	ND	6.3	1.3
P-ISOPROPYLTOLUENE	ND	6.3	1.3
SEC-BUTYLBENZENE	ND	6.3	1.3
STYRENE	ND	6.3	1.3
TERT-BUTYLBENZENE	ND	6.3	1.3
TETRACHLOROETHENE	ND	6.3	1.3
TOLUENE	ND	6.3	1.3
TRANS-1,2-DICHLOROETHENE	ND	6.3	1.3
TRANS-1,3-DICHLOROPROPENE	ND	6.3	1.3
TRICHLOROETHENE	ND	6.3	1.3
TRICHLOROFLUOROMETHANE	ND	6.3	2.5
VINYL CHLORIDE	ND	6.3	2.5
VINYL ACETATE	ND	6.3	2.5
FREON113	ND	6.3	2.5
DIBROMOMETHANE	ND	6.3	1.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	61.0	62.86	97.0	60-160
4-BROMOFLUOROBENZENE	68.7	62.86	109	70-150
TOLUENE-D8	61.3	62.86	97.5	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 16:20
Sample ID: B12-10	Date Analyzed: 04/19/18 16:20
Lab Samp ID: D145-06	Dilution Factor: 0.94
Lab File ID: RDB211	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 25.5
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.3	1.3
1,1,1-TRICHLOROETHANE	ND	6.3	1.3
1,1,2,2-TETRACHLOROETHANE	ND	6.3	1.3
1,1,2-TRICHLOROETHANE	ND	6.3	1.3
1,1-DICHLOROETHANE	ND	6.3	1.3
1,1-DICHLOROETHENE	ND	6.3	1.3
1,1-DICHLOROPROPENE	ND	6.3	1.3
1,2,3-TRICHLOROBENZENE	ND	6.3	2.5
1,2,3-TRICHLOROPROPANE	ND	6.3	2.5
1,2,4-TRICHLOROBENZENE	ND	6.3	2.5
1,2,4-TRIMETHYLBENZENE	ND	6.3	1.3
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.3	2.5
1,2-DIBROMOETHANE	ND	6.3	1.3
1,2-DICHLOROBENZENE	ND	6.3	1.3
1,2-DICHLOROETHANE	ND	6.3	1.3
1,2-DICHLOROPROPANE	ND	6.3	1.3
1,3,5-TRIMETHYLBENZENE	ND	6.3	1.3
1,3-DICHLOROBENZENE	ND	6.3	1.3
1,3-DICHLOROPROPANE	ND	6.3	1.3
1,4-DICHLOROBENZENE	ND	6.3	1.3
2,2-DICHLOROPROPANE	ND	6.3	2.5
2-BUTANONE	ND	13	6.3
2-CHLOROTOLUENE	ND	6.3	1.3
2-HEXANONE	ND	13	6.3
4-CHLOROTOLUENE	ND	6.3	1.3
ACETONE	11 J	13	6.3
BENZENE	ND	6.3	1.3
BROMOBENZENE	ND	6.3	1.3
BROMOCHLOROMETHANE	ND	6.3	1.3
BROMODICHLOROMETHANE	ND	6.3	1.3
BROMOFORM	ND	6.3	2.5
BROMOMETHANE	ND	6.3	2.5
CARBON DISULFIDE	ND	6.3	1.3
CARBON TETRACHLORIDE	ND	6.3	1.3
CHLOROBENZENE	ND	6.3	1.3
CHLOROETHANE	ND	6.3	2.5
CHLOROFORM	ND	6.3	1.3
CHLOROMETHANE	ND	6.3	2.5
CIS-1,2-DICHLOROETHENE	ND	6.3	1.3
CIS-1,3-DICHLOROPROPENE	ND	6.3	1.3
DIBROMOCHLOROMETHANE	ND	6.3	1.3
DICHLORODIFLUOROMETHANE	ND	6.3	2.5
ETHYLBENZENE	ND	6.3	1.3
ISOPROPYL BENZENE	ND	6.3	1.3
M,P-XYLENES	ND	13	2.5
MIBK	ND	13	6.3
METHYLENE CHLORIDE	ND	6.3	2.5
MTBE	ND	6.3	1.3
NAPHTHALENE	ND	6.3	2.5
N-BUTYLBENZENE	ND	6.3	1.3
N-PROPYLBENZENE	ND	6.3	1.3
O-XYLENE	ND	6.3	1.3
P-ISOPROPYLTOLUENE	ND	6.3	1.3
SEC-BUTYLBENZENE	ND	6.3	1.3
STYRENE	ND	6.3	1.3
TERT-BUTYLBENZENE	ND	6.3	1.3
TETRACHLOROETHENE	ND	6.3	1.3
TOLUENE	ND	6.3	1.3
TRANS-1,2-DICHLOROETHENE	ND	6.3	1.3
TRANS-1,3-DICHLOROPROPENE	ND	6.3	1.3
TRICHLOROETHENE	ND	6.3	1.3
TRICHLOROFLUOROMETHANE	ND	6.3	2.5
VINYL CHLORIDE	ND	6.3	2.5
VINYL ACETATE	ND	6.3	2.5
FREON113	ND	6.3	2.5
DIBROMOMETHANE	ND	6.3	1.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	58.1	63.09	92.2	60-160
4-BROMOFLUOROBENZENE	72.6	63.09	115	70-150
TOLUENE-D8	61.0	63.09	96.7	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 16:47
Sample ID: B13-2	Date Analyzed: 04/19/18 16:47
Lab Samp ID: D145-08	Dilution Factor: 0.99
Lab File ID: RDB212	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 8.1
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,1-TRICHLOROETHANE	ND	5.4	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,2-TRICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHENE	ND	5.4	1.1
1,1-DICHLOROPROPENE	ND	5.4	1.1
1,2,3-TRICHLOROBENZENE	ND	5.4	2.2
1,2,3-TRICHLOROPROPANE	ND	5.4	2.2
1,2,4-TRICHLOROBENZENE	ND	5.4	2.2
1,2,4-TRIMETHYLBENZENE	ND	5.4	1.1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.4	2.2
1,2-DIBROMOETHANE	ND	5.4	1.1
1,2-DICHLOROBENZENE	ND	5.4	1.1
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.4	1.1
1,3-DICHLOROBENZENE	ND	5.4	1.1
1,3-DICHLOROPROPANE	ND	5.4	1.1
1,4-DICHLOROBENZENE	ND	5.4	1.1
2,2-DICHLOROPROPANE	ND	5.4	2.2
2-BUTANONE	ND	11	5.4
2-CHLOROTOLUENE	ND	5.4	1.1
2-HEXANONE	ND	11	5.4
4-CHLOROTOLUENE	ND	5.4	1.1
ACETONE	26	11	5.4
BENZENE	ND	5.4	1.1
BROMOBENZENE	ND	5.4	1.1
BROMOCHLOROMETHANE	ND	5.4	1.1
BROMODICHLOROMETHANE	ND	5.4	1.1
BROMOFORM	ND	5.4	2.2
BROMOMETHANE	ND	5.4	2.2
CARBON DISULFIDE	2.4J	5.4	1.1
CARBON TETRACHLORIDE	ND	5.4	1.1
CHLOROBENZENE	ND	5.4	1.1
CHLOROETHANE	ND	5.4	2.2
CHLOROFORM	ND	5.4	1.1
CHLOROMETHANE	ND	5.4	2.2
CIS-1,2-DICHLOROETHENE	ND	5.4	1.1
CIS-1,3-DICHLOROPROPENE	ND	5.4	1.1
DIBROMOCHLOROMETHANE	ND	5.4	1.1
DICHLORODIFLUOROMETHANE	ND	5.4	2.2
ETHYLBENZENE	ND	5.4	1.1
ISOPROPYL BENZENE	ND	5.4	1.1
M,P-XYLENES	ND	11	2.2
MIBK	ND	11	5.4
METHYLENE CHLORIDE	ND	5.4	2.2
MTBE	ND	5.4	1.1
NAPHTHALENE	ND	5.4	2.2
N-BUTYLBENZENE	ND	5.4	1.1
N-PROPYLBENZENE	ND	5.4	1.1
O-XYLENE	ND	5.4	1.1
P-ISOPROPYLTOLUENE	ND	5.4	1.1
SEC-BUTYLBENZENE	ND	5.4	1.1
STYRENE	ND	5.4	1.1
TERT-BUTYLBENZENE	ND	5.4	1.1
TETRACHLOROETHENE	ND	5.4	1.1
TOLUENE	ND	5.4	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.4	1.1
TRANS-1,3-DICHLOROPROPENE	ND	5.4	1.1
TRICHLOROETHENE	ND	5.4	1.1
TRICHLOROFLUOROMETHANE	ND	5.4	2.2
VINYL CHLORIDE	ND	5.4	2.2
VINYL ACETATE	ND	5.4	2.2
FREON113	ND	5.4	2.2
DIBROMOMETHANE	ND	5.4	1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	48.4	53.86	89.9	60-160
4-BROMOFLUOROBENZENE	75.6	53.86	140	70-150
TOLUENE-D8	59.7	53.86	111	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 17:15
Sample ID: B13-5	Date Analyzed: 04/19/18 17:15
Lab Samp ID: D145-09	Dilution Factor: 1.24
Lab File ID: RDB213	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 6.9
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.7	1.3
1,1,1-TRICHLOROETHANE	ND	6.7	1.3
1,1,2,2-TETRACHLOROETHANE	ND	6.7	1.3
1,1,2-TRICHLOROETHANE	ND	6.7	1.3
1,1-DICHLOROETHANE	ND	6.7	1.3
1,1-DICHLOROETHENE	ND	6.7	1.3
1,1-DICHLOROPROPENE	ND	6.7	1.3
1,2,3-TRICHLOROBENZENE	ND	6.7	2.7
1,2,3-TRICHLOROPROPANE	ND	6.7	2.7
1,2,4-TRICHLOROBENZENE	ND	6.7	2.7
1,2,4-TRIMETHYLBENZENE	ND	6.7	1.3
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.7	2.7
1,2-DIBROMOETHANE	ND	6.7	1.3
1,2-DICHLOROBENZENE	ND	6.7	1.3
1,2-DICHLOROETHANE	ND	6.7	1.3
1,2-DICHLOROPROPANE	ND	6.7	1.3
1,3,5-TRIMETHYLBENZENE	ND	6.7	1.3
1,3-DICHLOROBENZENE	ND	6.7	1.3
1,3-DICHLOROPROPANE	ND	6.7	1.3
1,4-DICHLOROBENZENE	ND	6.7	1.3
2,2-DICHLOROPROPANE	ND	6.7	2.7
2-BUTANONE	ND	13	6.7
2-CHLOROTOLUENE	ND	6.7	1.3
2-HEXANONE	ND	13	6.7
4-CHLOROTOLUENE	ND	6.7	1.3
ACETONE	16	13	6.7
BENZENE	ND	6.7	1.3
BROMOBENZENE	ND	6.7	1.3
BROMOCHLOROMETHANE	ND	6.7	1.3
BROMODICHLOROMETHANE	ND	6.7	1.3
BROMOFORM	ND	6.7	2.7
BROMOMETHANE	ND	6.7	2.7
CARBON DISULFIDE	ND	6.7	1.3
CARBON TETRACHLORIDE	ND	6.7	1.3
CHLOROBENZENE	ND	6.7	1.3
CHLOROETHANE	ND	6.7	2.7
CHLOROFORM	ND	6.7	1.3
CHLOROMETHANE	ND	6.7	2.7
CIS-1,2-DICHLOROETHENE	ND	6.7	1.3
CIS-1,3-DICHLOROPROPENE	ND	6.7	1.3
DIBROMOCHLOROMETHANE	ND	6.7	1.3
DICHLORODIFLUOROMETHANE	ND	6.7	2.7
ETHYLBENZENE	ND	6.7	1.3
ISOPROPYL BENZENE	ND	6.7	1.3
M,P-XYLENES	ND	13	2.7
MIBK	ND	13	6.7
METHYLENE CHLORIDE	ND	6.7	2.7
MTBE	ND	6.7	1.3
NAPHTHALENE	ND	6.7	2.7
N-BUTYLBENZENE	ND	6.7	1.3
N-PROPYLBENZENE	ND	6.7	1.3
O-XYLENE	ND	6.7	1.3
P-ISOPROPYLTOLUENE	ND	6.7	1.3
SEC-BUTYLBENZENE	ND	6.7	1.3
STYRENE	ND	6.7	1.3
TERT-BUTYLBENZENE	ND	6.7	1.3
TETRACHLOROETHENE	ND	6.7	1.3
TOLUENE	ND	6.7	1.3
TRANS-1,2-DICHLOROETHENE	ND	6.7	1.3
TRANS-1,3-DICHLOROPROPENE	ND	6.7	1.3
TRICHLOROETHENE	ND	6.7	1.3
TRICHLOROFLUOROMETHANE	ND	6.7	2.7
VINYL CHLORIDE	ND	6.7	2.7
VINYL ACETATE	ND	6.7	2.7
FREON113	ND	6.7	2.7
DIBROMOMETHANE	ND	6.7	1.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	62.4	66.60	93.6	60-160
4-BROMOFLUOROBENZENE	77.0	66.60	116	70-150
TOLUENE-D8	65.3	66.60	98.0	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET
Batch No. : 18D145
Sample ID: B11-10D
Lab Samp ID: D145-10
Lab File ID: RDB214
Ext Btch ID: VS03D10
Calib. Ref.: RDB172

Date Collected: 04/18/18
Date Received: 04/18/18
Date Extracted: 04/19/18 17:43
Date Analyzed: 04/19/18 17:43
Dilution Factor: 0.97
Matrix : SOIL
% Moisture : 21.7
Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.2	1.2
1,1,1-TRICHLOROETHANE	ND	6.2	1.2
1,1,2,2-TETRACHLOROETHANE	ND	6.2	1.2
1,1,2-TRICHLOROETHANE	ND	6.2	1.2
1,1-DICHLOROETHANE	ND	6.2	1.2
1,1-DICHLOROETHENE	ND	6.2	1.2
1,1-DICHLOROPROPENE	ND	6.2	1.2
1,2,3-TRICHLOROBENZENE	ND	6.2	2.5
1,2,3-TRICHLOROPROPANE	ND	6.2	2.5
1,2,4-TRICHLOROBENZENE	ND	6.2	2.5
1,2,4-TRIMETHYLBENZENE	ND	6.2	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.2	2.5
1,2-DIBROMOETHANE	ND	6.2	1.2
1,2-DICHLOROBENZENE	ND	6.2	1.2
1,2-DICHLOROETHANE	ND	6.2	1.2
1,2-DICHLOROPROPANE	ND	6.2	1.2
1,3,5-TRIMETHYLBENZENE	ND	6.2	1.2
1,3-DICHLOROBENZENE	ND	6.2	1.2
1,3-DICHLOROPROPANE	ND	6.2	1.2
1,4-DICHLOROBENZENE	ND	6.2	1.2
2,2-DICHLOROPROPANE	ND	6.2	2.5
2-BUTANONE	ND	12	6.2
2-CHLOROTOLUENE	ND	6.2	1.2
2-HEXANONE	ND	12	6.2
4-CHLOROTOLUENE	ND	6.2	1.2
ACETONE	16	12	6.2
BENZENE	ND	6.2	1.2
BROMOBENZENE	ND	6.2	1.2
BROMOCHLOROMETHANE	ND	6.2	1.2
BROMODICHLOROMETHANE	ND	6.2	1.2
BROMOFORM	ND	6.2	2.5
BROMOMETHANE	ND	6.2	2.5
CARBON DISULFIDE	ND	6.2	1.2
CARBON TETRACHLORIDE	ND	6.2	1.2
CHLOROBENZENE	ND	6.2	1.2
CHLOROETHANE	ND	6.2	2.5
CHLOROFORM	ND	6.2	1.2
CHLOROMETHANE	ND	6.2	2.5
CIS-1,2-DICHLOROETHENE	ND	6.2	1.2
CIS-1,3-DICHLOROPROPENE	ND	6.2	1.2
DIBROMOCHLOROMETHANE	ND	6.2	1.2
DICHLORODIFLUOROMETHANE	ND	6.2	2.5
ETHYLBENZENE	ND	6.2	1.2
ISOPROPYL BENZENE	ND	6.2	1.2
M,P-XYLENES	ND	12	2.5
MIBK	ND	12	6.2
METHYLENE CHLORIDE	ND	6.2	2.5
MTBE	ND	6.2	1.2
NAPHTHALENE	ND	6.2	2.5
N-BUTYLBENZENE	ND	6.2	1.2
N-PROPYLBENZENE	ND	6.2	1.2
O-XYLENE	ND	6.2	1.2
P-ISOPROPYLTOLUENE	ND	6.2	1.2
SEC-BUTYLBENZENE	ND	6.2	1.2
STYRENE	ND	6.2	1.2
TERT-BUTYLBENZENE	ND	6.2	1.2
TETRACHLOROETHENE	ND	6.2	1.2
TOLUENE	ND	6.2	1.2
TRANS-1,2-DICHLOROETHENE	ND	6.2	1.2
TRANS-1,3-DICHLOROPROPENE	ND	6.2	1.2
TRICHLOROETHENE	ND	6.2	1.2
TRICHLOROFLUOROMETHANE	ND	6.2	2.5
VINYL CHLORIDE	ND	6.2	2.5
VINYL ACETATE	ND	6.2	2.5
FREON113	ND	6.2	2.5
DIBROMOMETHANE	ND	6.2	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	56.9	61.94	91.9	60-160
4-BROMOFLUOROBENZENE	70.6	61.94	114	70-150
TOLUENE-D8	61.5	61.94	99.3	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 18:11
Sample ID: B13-10	Date Analyzed: 04/19/18 18:11
Lab Samp ID: D145-12	Dilution Factor: 0.8
Lab File ID: RDB215	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 13.7
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.6	0.93
1,1,1-TRICHLOROETHANE	ND	4.6	0.93
1,1,2,2-TETRACHLOROETHANE	ND	4.6	0.93
1,1,2-TRICHLOROETHANE	ND	4.6	0.93
1,1-DICHLOROETHANE	ND	4.6	0.93
1,1-DICHLOROETHENE	ND	4.6	0.93
1,1-DICHLOROPROPENE	ND	4.6	0.93
1,2,3-TRICHLOROBENZENE	ND	4.6	1.9
1,2,3-TRICHLOROPROPANE	ND	4.6	1.9
1,2,4-TRICHLOROBENZENE	ND	4.6	1.9
1,2,4-TRIMETHYLBENZENE	ND	4.6	0.93
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.6	1.9
1,2-DIBROMOETHANE	ND	4.6	0.93
1,2-DICHLOROBENZENE	ND	4.6	0.93
1,2-DICHLOROETHANE	ND	4.6	0.93
1,2-DICHLOROPROPANE	ND	4.6	0.93
1,3,5-TRIMETHYLBENZENE	ND	4.6	0.93
1,3-DICHLOROBENZENE	ND	4.6	0.93
1,3-DICHLOROPROPANE	ND	4.6	0.93
1,4-DICHLOROBENZENE	ND	4.6	0.93
2,2-DICHLOROPROPANE	ND	4.6	1.9
2-BUTANONE	ND	9.3	4.6
2-CHLOROTOLUENE	ND	4.6	0.93
2-HEXANONE	ND	9.3	4.6
4-CHLOROTOLUENE	ND	4.6	0.93
ACETONE	46	9.3	4.6
BENZENE	ND	4.6	0.93
BROMOBENZENE	ND	4.6	0.93
BROMOCHLOROMETHANE	ND	4.6	0.93
BROMODICHLOROMETHANE	ND	4.6	0.93
BROMOFORM	ND	4.6	1.9
BROMOMETHANE	ND	4.6	1.9
CARBON DISULFIDE	ND	4.6	0.93
CARBON TETRACHLORIDE	ND	4.6	0.93
CHLOROBENZENE	ND	4.6	0.93
CHLOROETHANE	ND	4.6	1.9
CHLOROFORM	ND	4.6	0.93
CHLOROMETHANE	ND	4.6	1.9
CIS-1,2-DICHLOROETHENE	ND	4.6	0.93
CIS-1,3-DICHLOROPROPENE	ND	4.6	0.93
DIBROMOCHLOROMETHANE	ND	4.6	0.93
DICHLORODIFLUOROMETHANE	ND	4.6	1.9
ETHYLBENZENE	ND	4.6	0.93
ISOPROPYL BENZENE	ND	4.6	0.93
M,P-XYLENES	ND	9.3	1.9
MIBK	ND	9.3	4.6
METHYLENE CHLORIDE	ND	4.6	1.9
MTBE	ND	4.6	0.93
NAPHTHALENE	ND	4.6	1.9
N-BUTYLBENZENE	ND	4.6	0.93
N-PROPYLBENZENE	ND	4.6	0.93
O-XYLENE	ND	4.6	0.93
P-ISOPROPYLTOLUENE	ND	4.6	0.93
SEC-BUTYLBENZENE	ND	4.6	0.93
STYRENE	ND	4.6	0.93
TERT-BUTYLBENZENE	ND	4.6	0.93
TETRACHLOROETHENE	ND	4.6	0.93
TOLUENE	ND	4.6	0.93
TRANS-1,2-DICHLOROETHENE	ND	4.6	0.93
TRANS-1,3-DICHLOROPROPENE	ND	4.6	0.93
TRICHLOROETHENE	ND	4.6	0.93
TRICHLOROFLUOROMETHANE	ND	4.6	1.9
VINYL CHLORIDE	ND	4.6	1.9
VINYL ACETATE	ND	4.6	1.9
FREON113	ND	4.6	1.9
DIBROMOMETHANE	ND	4.6	0.93

SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	46.0	46.35	99.3	60-160
4-BROMOFLUOROBENZENE	51.5	46.35	111	70-150
TOLUENE-D8	45.5	46.35	98.2	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 17:18
Sample ID: B11-2	Date Analyzed: 04/27/18 17:18
Lab Samp ID: D145-14	Dilution Factor: 1.31
Lab File ID: RDB223	Matrix : SOIL
Ext Btch ID: VS03D11	% Moisture : 5.8
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	7.0	1.4
1,1,1-TRICHLOROETHANE	ND	7.0	1.4
1,1,2,2-TETRACHLOROETHANE	ND	7.0	1.4
1,1,2-TRICHLOROETHANE	ND	7.0	1.4
1,1-DICHLOROETHANE	ND	7.0	1.4
1,1-DICHLOROETHENE	ND	7.0	1.4
1,1-DICHLOROPROPENE	ND	7.0	1.4
1,2,3-TRICHLOROBENZENE	ND	7.0	2.8
1,2,3-TRICHLOROPROPANE	ND	7.0	2.8
1,2,4-TRICHLOROBENZENE	ND	7.0	2.8
1,2,4-TRIMETHYLBENZENE	ND	7.0	1.4
1,2-DIBROMO-3-CHLOROPROPANE	ND	7.0	2.8
1,2-DIBROMOETHANE	ND	7.0	1.4
1,2-DICHLOROBENZENE	ND	7.0	1.4
1,2-DICHLOROETHANE	ND	7.0	1.4
1,2-DICHLOROPROPANE	ND	7.0	1.4
1,3,5-TRIMETHYLBENZENE	ND	7.0	1.4
1,3-DICHLOROBENZENE	ND	7.0	1.4
1,3-DICHLOROPROPANE	ND	7.0	1.4
1,4-DICHLOROBENZENE	ND	7.0	1.4
2,2-DICHLOROPROPANE	ND	7.0	2.8
2-BUTANONE	11J	14	7.0
2-CHLOROTOLUENE	ND	7.0	1.4
2-HEXANONE	ND	14	7.0
4-CHLOROTOLUENE	ND	7.0	1.4
ACETONE	100	14	7.0
BENZENE	3.1J	7.0	1.4
BROMOBENZENE	ND	7.0	1.4
BROMOCHLOROMETHANE	ND	7.0	1.4
BROMODICHLOROMETHANE	ND	7.0	1.4
BROMOFORM	ND	7.0	2.8
BROMOMETHANE	ND	7.0	2.8
CARBON DISULFIDE	5.6J	7.0	1.4
CARBON TETRACHLORIDE	ND	7.0	1.4
CHLOROBENZENE	ND	7.0	1.4
CHLOROETHANE	ND	7.0	2.8
CHLOROFORM	ND	7.0	1.4
CHLOROMETHANE	ND	7.0	2.8
CIS-1,2-DICHLOROETHENE	ND	7.0	1.4
CIS-1,3-DICHLOROPROPENE	ND	7.0	1.4
DIBROMOCHLOROMETHANE	ND	7.0	1.4
DICHLORODIFLUOROMETHANE	ND	7.0	2.8
ETHYLBENZENE	ND	7.0	1.4
ISOPROPYL BENZENE	ND	7.0	1.4
M,P-XYLENES	3.1J	14	2.8
MIBK	ND	14	7.0
METHYLENE CHLORIDE	ND	7.0	2.8
MTBE	ND	7.0	1.4
NAPHTHALENE	ND	7.0	2.8
N-BUTYLBENZENE	ND	7.0	1.4
N-PROPYLBENZENE	ND	7.0	1.4
O-XYLENE	ND	7.0	1.4
P-ISOPROPYLTOLUENE	ND	7.0	1.4
SEC-BUTYLBENZENE	ND	7.0	1.4
STYRENE	ND	7.0	1.4
TERT-BUTYLBENZENE	ND	7.0	1.4
TETRACHLOROETHENE	ND	7.0	1.4
TOLUENE	5.3J	7.0	1.4
TRANS-1,2-DICHLOROETHENE	ND	7.0	1.4
TRANS-1,3-DICHLOROPROPENE	ND	7.0	1.4
TRICHLOROETHENE	ND	7.0	1.4
TRICHLOROFLUOROMETHANE	ND	7.0	2.8
VINYL CHLORIDE	ND	7.0	2.8
VINYL ACETATE	ND	7.0	2.8
FREON113	ND	7.0	2.8
DIBROMOMETHANE	ND	7.0	1.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	63.4	69.53	91.1	60-160
4-BROMOFLUOROBENZENE	82.0	69.53	118	70-150
TOLUENE-D8	70.2	69.53	101	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 18:14
Sample ID: B11-5	Date Analyzed: 04/27/18 18:14
Lab Samp ID: D145-15	Dilution Factor: 1.1
Lab File ID: RDB225	Matrix : SOIL
Ext Btch ID: VS03D11	% Moisture : 10.8
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.2	1.2
1,1,1-TRICHLOROETHANE	ND	6.2	1.2
1,1,2,2-TETRACHLOROETHANE	ND	6.2	2.5
1,1,2-TRICHLOROETHANE	ND	6.2	1.2
1,1-DICHLOROETHANE	ND	6.2	1.2
1,1-DICHLOROETHENE	ND	6.2	1.2
1,1-DICHLOROPROPENE	ND	6.2	1.2
1,2,3-TRICHLOROBENZENE	ND	6.2	2.5
1,2,3-TRICHLOROPROPANE	ND	6.2	2.5
1,2,4-TRICHLOROBENZENE	ND	6.2	2.5
1,2,4-TRIMETHYLBENZENE	ND	6.2	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.2	2.5
1,2-DIBROMOETHANE	ND	6.2	1.2
1,2-DICHLOROBENZENE	ND	6.2	1.2
1,2-DICHLOROETHANE	ND	6.2	1.2
1,2-DICHLOROPROPANE	ND	6.2	1.2
1,3,5-TRIMETHYLBENZENE	ND	6.2	1.2
1,3-DICHLOROBENZENE	ND	6.2	1.2
1,3-DICHLOROPROPANE	ND	6.2	1.2
1,4-DICHLOROBENZENE	ND	6.2	1.2
2,2-DICHLOROPROPANE	ND	6.2	2.5
2-BUTANONE	16	12	6.2
2-CHLOROTOLUENE	ND	6.2	1.2
2-HEXANONE	ND	12	6.2
4-CHLOROTOLUENE	ND	6.2	1.2
ACETONE	130	12	6.2
BENZENE	2.0J	6.2	1.2
BROMOBENZENE	ND	6.2	1.2
BROMOCHLOROMETHANE	ND	6.2	1.2
BROMODICHLOROMETHANE	ND	6.2	1.2
BROMOFORM	ND	6.2	2.5
BROMOMETHANE	ND	6.2	2.5
CARBON DISULFIDE	12	6.2	1.2
CARBON TETRACHLORIDE	ND	6.2	1.2
CHLOROBENZENE	ND	6.2	1.2
CHLOROETHANE	ND	6.2	2.5
CHLOROFORM	ND	6.2	1.2
CHLOROMETHANE	ND	6.2	2.5
CIS-1,2-DICHLOROETHENE	ND	6.2	1.2
CIS-1,3-DICHLOROPROPENE	ND	6.2	1.2
DIBROMOCHLOROMETHANE	ND	6.2	1.2
DICHLORODIFLUOROMETHANE	ND	6.2	2.5
ETHYLBENZENE	ND	6.2	1.2
ISOPROPYL BENZENE	ND	6.2	1.2
M,P-XYLENES	ND	12	2.5
MIBK	ND	12	6.2
METHYLENE CHLORIDE	ND	6.2	2.5
MTBE	ND	6.2	1.2
NAPHTHALENE	ND	6.2	2.5
N-BUTYLBENZENE	ND	6.2	1.2
N-PROPYLBENZENE	ND	6.2	1.2
O-XYLENE	ND	6.2	1.2
P-ISOPROPYLTOLUENE	ND	6.2	1.2
SEC-BUTYLBENZENE	ND	6.2	1.2
STYRENE	ND	6.2	1.2
TERT-BUTYLBENZENE	ND	6.2	1.2
TETRACHLOROETHENE	ND	6.2	1.2
TOLUENE	1.9J	6.2	1.2
TRANS-1,2-DICHLOROETHENE	ND	6.2	1.2
TRANS-1,3-DICHLOROPROPENE	ND	6.2	1.2
TRICHLOROETHENE	ND	6.2	1.2
TRICHLOROFLUOROMETHANE	ND	6.2	2.5
VINYL CHLORIDE	ND	6.2	2.5
VINYL ACETATE	ND	6.2	2.5
FREON113	ND	6.2	2.5
DIBROMOMETHANE	ND	6.2	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	57.8	61.66	93.7	60-160
4-BROMOFLUOROBENZENE	89.7	61.66	145	70-150
TOLUENE-D8	66.4	61.66	108	70-140

QC SUMMARIES

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/19/18
Batch No. : 18D145	Date Extracted: 04/19/18 12:37
Sample ID: MBLK1S	Date Analyzed: 04/19/18 12:37
Lab Samp ID: VS03D10B	Dilution Factor: 1
Lab File ID: RDB203	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : NA
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	1.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-CHLOROTOLUENE	ND	5.0	1.0
2-HEXANONE	ND	10	5.0
4-CHLOROTOLUENE	ND	5.0	1.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENES	ND	10	2.0
MIBK	ND	10	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	1.0
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	46.4	50.00	92.8	70-140
4-BROMOFLUOROBENZENE	53.5	50.00	107	70-130
TOLUENE-D8	48.8	50.00	97.6	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D145
METHOD: SW 5035A/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VS03D10B	VS03D10L	VS03D10C		
LAB FILE ID:	RDB203	RDB200	RDB201		
DATE EXTRACTED:	04/19/1812:37	04/19/1811:13	04/19/1811:41	DATE COLLECTED:	NA
DATE ANALYZED:	04/19/1812:37	04/19/1811:13	04/19/1811:41	DATE RECEIVED:	04/19/18
PREP. BATCH:	VS03D10	VS03D10	VS03D10		
CALIB. REF:	RDB172	RDB172	RDB172		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	50.0	44.2	88	50.0	42.6	85	4	60-130	30
Benzene	ND	50.0	46.4	93	50.0	48.1	96	4	70-130	30
Chlorobenzene	ND	50.0	46.9	94	50.0	48.0	96	2	70-130	30
Toluene	ND	50.0	47.8	96	50.0	48.4	97	1	70-130	50
Trichloroethene	ND	50.0	47.0	94	50.0	47.7	95	2	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	43.1	86	50.0	41.7	83	70-140
4-Bromofluorobenzene	50.0	50.1	100	50.0	49.4	99	70-130
Toluene-d8	50.0	48.6	97	50.0	48.2	96	70-130

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/27/18
Batch No. : 18D145	Date Extracted: 04/27/18 16:51
Sample ID: MBLK2S	Date Analyzed: 04/27/18 16:51
Lab Samp ID: VS03D11B	Dilution Factor: 1
Lab File ID: RDB222	Matrix : SOIL
Ext Btch ID: VS03D11	% Moisture : NA
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	1.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-CHLOROTOLUENE	ND	5.0	1.0
2-HEXANONE	ND	10	5.0
4-CHLOROTOLUENE	ND	5.0	1.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENES	ND	10	2.0
MIBK	ND	10	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	1.0
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	43.5	50.00	87.0	70-140
4-BROMOFLUOROBENZENE	53.2	50.00	106	70-130
TOLUENE-D8	49.1	50.00	98.2	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D145
METHOD: SW 5035A/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VS03D11B	VS03D11L	VS03D11C		
LAB FILE ID:	RDB222	RDB219	RDB220		
DATE EXTRACTED:	04/27/1816:51	04/27/1815:28	04/27/1815:56	DATE COLLECTED:	NA
DATE ANALYZED:	04/27/1816:51	04/27/1815:28	04/27/1815:56	DATE RECEIVED:	04/27/18
PREP. BATCH:	VS03D11	VS03D11	VS03D11		
CALIB. REF:	RDB172	RDB172	RDB172		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	50.0	42.6	85	50.0	45.3	91	6	60-130	30
Benzene	ND	50.0	50.1	100	50.0	52.3	105	4	70-130	30
Chlorobenzene	ND	50.0	44.7	89	50.0	47.2	94	5	70-130	30
Toluene	ND	50.0	47.6	95	50.0	49.5	99	4	70-130	50
Trichloroethene	ND	50.0	43.9	88	50.0	46.9	94	7	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	40.6	81	50.0	40.8	82	70-140
4-Bromofluorobenzene	50.0	55.6	111	50.0	53.1	106	70-130
Toluene-d8	50.0	51.0	102	50.0	49.3	99	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

A total of two (2) water samples were received on 04/18/18 to be analyzed for Semi Volatile Organics by GC/MS in accordance with Method 3520C/8270C SIM and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. There was one (1) CCV associated with this SDG. Target analytes in CCV(Datafile ID:RDF017) were within calibration acceptance criteria. All calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. SVD034WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. SVD034WL/SVD034WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample D145-11 and -16 were initially extracted at dilution due to limited samples amount received.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : FO

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1W	SVD034WL	1	NA	04/25/1809:50	04/23/1810:15	RDF018	RCF004	18SVD034W	Lab Control Sample (LCS)
LCD1W	SVD034WC	1	NA	04/25/1810:12	04/23/1810:15	RDF019	RCF004	18SVD034W	LCS Duplicate
MBLK1W	SVD034WB	1	NA	04/25/1811:18	04/23/1810:15	RDF022	RCF004	18SVD034W	Method Blank
B11	18D145-11	1	NA	04/25/1814:00	04/23/1810:15	RDF029	RCF004	18SVD034W	Field Sample
EB	18D145-16	1	NA	04/25/1814:23	04/23/1810:15	RDF030	RCF004	18SVD034W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 09:48
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/23/18 10:15
Sample ID : B11	Date Analyzed: 04/25/18 14:00
Lab Samp ID: 18D145-11	Dilution Factor: 1
Lab File ID: RDF029	Matrix: WATER
Ext Btch ID: 18SVD034W	% Moisture: NA
Calib. Ref.: RCF004	Instrument ID: F0

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Acenaphthene	ND	0.040	0.020
Acenaphthylene	ND	0.040	0.020
Anthracene	ND	0.040	0.020
Benzo(a)anthracene	ND	0.040	0.020
Benzo(a)pyrene	ND	0.040	0.020
Benzo(b)fluoranthene	ND	0.040	0.020
Benzo(k)fluoranthene	ND	0.040	0.020
Benzo(g,h,i)perylene	ND	0.040	0.020
Chrysene	ND	0.040	0.020
Dibenzo(a,h)anthracene	ND	0.040	0.020
Fluoranthene	ND	0.040	0.020
Fluorene	ND	0.040	0.020
Indeno(1,2,3-cd)pyrene	ND	0.040	0.020
Naphthalene	ND	0.040	0.020
Phenanthrene	ND	0.040	0.020
Pyrene	ND	0.040	0.020
2-Methylnaphthalene	ND	0.040	0.020
1-Methylnaphthalene	ND	0.040	0.020

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	0.851	1.00	85	50-135

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 500ml	Final Volume : 1ml
Prepared by : JMuert	Analyzed by : KVu

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 08:15
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/23/18 10:15
Sample ID : EB	Date Analyzed: 04/25/18 14:23
Lab Samp ID: 18D145-16	Dilution Factor: 1
Lab File ID: RDF030	Matrix: WATER
Ext Btch ID: 18SVD034W	% Moisture: NA
Calib. Ref.: RCF004	Instrument ID: FO

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Acenaphthene	ND	0.040	0.020
Acenaphthylene	ND	0.040	0.020
Anthracene	ND	0.040	0.020
Benzo(a)anthracene	ND	0.040	0.020
Benzo(a)pyrene	ND	0.040	0.020
Benzo(b)fluoranthene	ND	0.040	0.020
Benzo(k)fluoranthene	ND	0.040	0.020
Benzo(g,h,i)perylene	ND	0.040	0.020
Chrysene	ND	0.040	0.020
Dibenzo(a,h)anthracene	ND	0.040	0.020
Fluoranthene	ND	0.040	0.020
Fluorene	ND	0.040	0.020
Indeno(1,2,3-cd)pyrene	ND	0.040	0.020
Naphthalene	ND	0.040	0.020
Phenanthrene	ND	0.040	0.020
Pyrene	ND	0.040	0.020
2-Methylnaphthalene	ND	0.040	0.020
1-Methylnaphthalene	ND	0.040	0.020

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	0.720	1.00	72	50-135

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 500ml	Final Volume : 1ml
Prepared by : JMuert	Analyzed by : KVu

QC SUMMARIES

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/23/18 10:15
Project : POLA-1500 I STREET	Date Received: 04/23/18
Batch No. : 18D145	Date Extracted: 04/23/18 10:15
Sample ID : MBLK1W	Date Analyzed: 04/25/18 11:18
Lab Samp ID: SVD034WB	Dilution Factor: 1
Lab File ID: RDF022	Matrix: WATER
Ext Btch ID: 18SVD034W	% Moisture: NA
Calib. Ref.: RCF004	Instrument ID: F0

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Acenaphthene	ND	0.020	0.010
Acenaphthylene	ND	0.020	0.010
Anthracene	ND	0.020	0.010
Benzo(a)anthracene	ND	0.020	0.010
Benzo(a)pyrene	ND	0.020	0.010
Benzo(b)fluoranthene	ND	0.020	0.010
Benzo(k)fluoranthene	ND	0.020	0.010
Benzo(g,h,i)perylene	ND	0.020	0.010
Chrysene	ND	0.020	0.010
Dibenzo(a,h)anthracene	ND	0.020	0.010
Fluoranthene	ND	0.020	0.010
Fluorene	ND	0.020	0.010
Indeno(1,2,3-cd)pyrene	ND	0.020	0.010
Naphthalene	ND	0.020	0.010
Phenanthrene	ND	0.020	0.010
Pyrene	ND	0.020	0.010
2-Methylnaphthalene	ND	0.020	0.010
1-Methylnaphthalene	ND	0.020	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	0.466	0.500	93	50-135

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml	Final Volume : 1ml
Prepared by : JMuert	Analyzed by : KVu

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3520C/8270C SIM

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: SVD034WB	SVD034WL	SVD034WC
LAB FILE ID	: RDF022	RDF018	RDF019
DATE PREPARED	: 04/23/18 10:15	04/23/18 10:15	04/23/18 10:15
DATE ANALYZED	: 04/25/18 11:18	04/25/18 09:50	04/25/18 10:12
PREP BATCH	: 18SVD034W	18SVD034W	18SVD034W
CALIBRATION REF	: RCF004	RCF004	RCF004

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Acenaphthene	ND	0.500	0.268	54	0.500	0.262	52	2	45-110	30
Acenaphthylene	ND	0.500	0.283	57	0.500	0.273	55	4	50-105	30
Anthracene	ND	0.500	0.313	63	0.500	0.299	60	5	55-110	30
Benzo(a)anthracene	ND	0.500	0.341	68	0.500	0.349	70	2	55-110	30
Benzo(a)pyrene	ND	0.500	0.399	80	0.500	0.391	78	2	55-110	30
Benzo(b)fluoranthene	ND	0.500	0.394	79	0.500	0.401	80	2	45-120	30
Benzo(k)fluoranthene	ND	0.500	0.431	86	0.500	0.430	86	0	45-125	30
Benzo(g,h,i)perylene	ND	0.500	0.322	64	0.500	0.331	66	3	40-125	30
Chrysene	ND	0.500	0.376	75	0.500	0.380	76	1	55-110	30
Dibenzo(a,h)anthracene	ND	0.500	0.318	64	0.500	0.334	67	5	40-125	30
Fluoranthene	ND	0.500	0.348	70	0.500	0.347	69	0	55-115	30
Fluorene	ND	0.500	0.299	60	0.500	0.290	58	3	50-110	30
Indeno(1,2,3-cd)pyrene	ND	0.500	0.309	62	0.500	0.320	64	3	45-125	30
Naphthalene	ND	0.500	0.265	53	0.500	0.252	50	5	40-100	30
Phenanthrene	ND	0.500	0.296	59	0.500	0.292	58	1	50-115	30
Pyrene	ND	0.500	0.356	71	0.500	0.357	71	0	50-130	30
2-Methylnaphthalene	ND	0.500	0.282	56	0.500	0.267	53	5	45-105	30
1-Methylnaphthalene	ND	0.500	0.281	56	0.500	0.269	54	4	30-160	30

SURROGATE PARAMETER	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
Terphenyl-d14	0.500	0.346	69	0.500	0.350	70	50-135

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

A total of thirteen (13) soil samples were received on 04/18/18 to be analyzed for Semi Volatile Organics by GC/MS in accordance with Method 3550B/8270C SIM and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. There were three (3) CCVs associated with this SDG: CCV(Datafile ID:REJ159), CCV(Datafile ID:REJ199) and CCV(Datafile ID:REJ239). All calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. SVD041SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. SVD041SL/SVD041SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. 18D145-02M/S - all analytes were within MS QC limits. Refer to Matrix QC summary form for details.

Surrogate
Surrogate was added on QC and field samples. For this SDG, all surrogate recoveries were within QC limits except for D145-01 surrogate was out of surrogate limits; most likely due to matrix interference (dark colored extract). Sample reanalysis in this case will likely deliver similar result. For this reason, no re-analysis was performed. Refer to sample result summary forms for details. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met. The following analytes were manually integrated.

- Benzo(b)fluoranthene, Benzo(k)fluoranthene and Indeno(1,2,3-cd)pyrene in sample D145-01
- Fluoranthene, Benzo(b)fluoranthene, Benzo(k)fluoranthene and Indeno(1,2,3-cd)pyrene in samples D145-03 and -14
- Fluoranthene, Benzo(b)fluoranthene and Benzo(k)fluoranthene in sample D145-04
- Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene in samples D145-05, -06, -07, -08, -09, -13 and -15

Hence, the original chromatogram was retained and corrected chromatogram was initialed and dated. The secondary reviewer concurred with the manual integrations.
Sample D145-01, -03, -04, -05, -07, -08, -09, -13, -14 and -15 were initially analyzed at dilution due to dark-colored appearance in extracts.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : E4

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	SVD041SB	1	NA	05/07/1810:27	04/27/1814:04	REJ162	RBJ167	18SVD041S	Method Blank
LCS1S	SVD041SL	1	NA	05/07/1810:45	04/27/1814:04	REJ163	RBJ167	18SVD041S	Lab Control Sample (LCS)
LCD1S	SVD041SC	1	NA	05/07/1811:04	04/27/1814:04	REJ164	RBJ167	18SVD041S	LCS Duplicate
B11-10	18D145-01	2	22.7	05/07/1818:34	04/27/1814:04	REJ188	RBJ167	18SVD041S	Field Sample
B11-15	18D145-02	1	14.3	05/07/1818:52	04/27/1814:04	REJ189	RBJ167	18SVD041S	Field Sample
B12-0.5	18D145-03	3	5.8	05/07/1819:11	04/27/1814:04	REJ190	RBJ167	18SVD041S	Field Sample
B11-15MS	18D145-02M	1	14.3	05/07/1819:30	04/27/1814:04	REJ191	RBJ167	18SVD041S	Matrix Spike Sample (MS)
B11-15MSD	18D145-02S	1	14.3	05/07/1819:49	04/27/1814:04	REJ192	RBJ167	18SVD041S	MS Duplicate (MSD)
B12-2	18D145-04	3	5.3	05/08/1818:19	04/27/1814:04	REJ228	RBJ167	18SVD041S	Field Sample
B12-5	18D145-05	3	12.5	05/08/1818:38	04/27/1814:04	REJ229	RBJ167	18SVD041S	Field Sample
B12-10	18D145-06	1	25.5	05/08/1818:57	04/27/1814:04	REJ230	RBJ167	18SVD041S	Field Sample
B13-0.5	18D145-07	3	5.0	05/08/1819:16	04/27/1814:04	REJ231	RBJ167	18SVD041S	Field Sample
B13-2	18D145-08	3	8.1	05/08/1819:34	04/27/1814:04	REJ232	RBJ167	18SVD041S	Field Sample
B13-5	18D145-09	2	6.9	05/09/1812:22	04/27/1814:04	REJ249	RBJ167	18SVD041S	Field Sample
B13-10	18D145-12	1	13.7	05/09/1812:40	04/27/1814:04	REJ250	RBJ167	18SVD041S	Field Sample
B11-0.5	18D145-13	3	3.0	05/09/1812:59	04/27/1814:04	REJ251	RBJ167	18SVD041S	Field Sample
B11-2	18D145-14	3	5.8	05/09/1813:18	04/27/1814:04	REJ252	RBJ167	18SVD041S	Field Sample
B11-5	18D145-15	5	10.8	05/09/1813:37	04/27/1814:04	REJ253	RBJ167	18SVD041S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 08:18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B11-10	Date Analyzed: 05/07/18 18:34
Lab Samp ID: 18D145-01	Dilution Factor: 2
Lab File ID: REJ188	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 22.7
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	13	6.5
Acenaphthylene	8.1J	13	6.5
Anthracene	ND	13	6.5
Benzo(a)anthracene	28	13	6.5
Benzo(a)pyrene	33	13	6.5
Benzo(b)fluoranthene	32	13	6.5
Benzo(k)fluoranthene	7.8J	13	6.5
Benzo(g,h,i)perylene	27	13	6.5
Chrysene	25	13	6.5
Dibenzo(a,h)anthracene	ND	13	6.5
Fluoranthene	47	13	6.5
Fluorene	ND	13	6.5
Indeno(1,2,3-cd)pyrene	18	13	6.5
Naphthalene	ND	13	6.5
Phenanthrene	19	13	6.5
Pyrene	63	13	6.5
2-Methylnaphthalene	ND	13	6.5
1-Methylnaphthalene	ND	13	6.5

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	1340	862	155*	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.03g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 08:34
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B11-15	Date Analyzed: 05/07/18 18:52
Lab Samp ID: 18D145-02	Dilution Factor: 1
Lab File ID: REJ189	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 14.3
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.8	2.9
Acenaphthylene	ND	5.8	2.9
Anthracene	ND	5.8	2.9
Benzo(a)anthracene	ND	5.8	2.9
Benzo(a)pyrene	ND	5.8	2.9
Benzo(b)fluoranthene	ND	5.8	2.9
Benzo(k)fluoranthene	ND	5.8	2.9
Benzo(g,h,i)perylene	ND	5.8	2.9
Chrysene	ND	5.8	2.9
Dibenzo(a,h)anthracene	ND	5.8	2.9
Fluoranthene	ND	5.8	2.9
Fluorene	ND	5.8	2.9
Indeno(1,2,3-cd)pyrene	ND	5.8	2.9
Naphthalene	ND	5.8	2.9
Phenanthrene	ND	5.8	2.9
Pyrene	ND	5.8	2.9
2-Methylnaphthalene	ND	5.8	2.9
1-Methylnaphthalene	ND	5.8	2.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	693	778	89	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 09:20
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B12-0.5	Date Analyzed: 05/07/18 19:11
Lab Samp ID: 18D145-03	Dilution Factor: 3
Lab File ID: REJ190	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 5.8
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	16	8.0
Acenaphthylene	ND	16	8.0
Anthracene	ND	16	8.0
Benzo(a)anthracene	31	16	8.0
Benzo(a)pyrene	29	16	8.0
Benzo(b)fluoranthene	32	16	8.0
Benzo(k)fluoranthene	8.6J	16	8.0
Benzo(g,h,i)perylene	36	16	8.0
Chrysene	36	16	8.0
Dibenzo(a,h)anthracene	ND	16	8.0
Fluoranthene	43	16	8.0
Fluorene	ND	16	8.0
Indeno(1,2,3-cd)pyrene	18	16	8.0
Naphthalene	ND	16	8.0
Phenanthrene	21	16	8.0
Pyrene	54	16	8.0
2-Methylnaphthalene	ND	16	8.0
1-Methylnaphthalene	ND	16	8.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	531	708	75	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 09:25
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B12-2	Date Analyzed: 05/08/18 18:19
Lab Samp ID: 18D145-04	Dilution Factor: 3
Lab File ID: REJ228	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 5.3
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	16	7.9
Acenaphthylene	ND	16	7.9
Anthracene	ND	16	7.9
Benzo(a)anthracene	35	16	7.9
Benzo(a)pyrene	31	16	7.9
Benzo(b)fluoranthene	34	16	7.9
Benzo(k)fluoranthene	9.7J	16	7.9
Benzo(g,h,i)perylene	46	16	7.9
Chrysene	39	16	7.9
Dibenzo(a,h)anthracene	ND	16	7.9
Fluoranthene	37	16	7.9
Fluorene	ND	16	7.9
Indeno(1,2,3-cd)pyrene	21	16	7.9
Naphthalene	ND	16	7.9
Phenanthrene	18	16	7.9
Pyrene	52	16	7.9
2-Methylnaphthalene	ND	16	7.9
1-Methylnaphthalene	ND	16	7.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	654	704	93	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 09:34
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B12-5	Date Analyzed: 05/08/18 18:38
Lab Samp ID: 18D145-05	Dilution Factor: 3
Lab File ID: REJ229	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 12.5
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	17	8.6
Acenaphthylene	45	17	8.6
Anthracene	18	17	8.6
Benzo(a)anthracene	130	17	8.6
Benzo(a)pyrene	160	17	8.6
Benzo(b)fluoranthene	150	17	8.6
Benzo(k)fluoranthene	40	17	8.6
Benzo(g,h,i)perylene	120	17	8.6
Chrysene	150	17	8.6
Dibenzo(a,h)anthracene	19	17	8.6
Fluoranthene	190	17	8.6
Fluorene	ND	17	8.6
Indeno(1,2,3-cd)pyrene	81	17	8.6
Naphthalene	ND	17	8.6
Phenanthrene	44	17	8.6
Pyrene	270	17	8.6
2-Methylnaphthalene	ND	17	8.6
1-Methylnaphthalene	ND	17	8.6

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	717	762	94	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.01g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 09:42
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B12-10	Date Analyzed: 05/08/18 18:57
Lab Samp ID: 18D145-06	Dilution Factor: 1
Lab File ID: REJ230	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 25.5
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	6.7	3.4
Acenaphthylene	5.8J	6.7	3.4
Anthracene	ND	6.7	3.4
Benzo(a)anthracene	25	6.7	3.4
Benzo(a)pyrene	23	6.7	3.4
Benzo(b)fluoranthene	24	6.7	3.4
Benzo(k)fluoranthene	5.8J	6.7	3.4
Benzo(g,h,i)perylene	19	6.7	3.4
Chrysene	20	6.7	3.4
Dibenzo(a,h)anthracene	ND	6.7	3.4
Fluoranthene	31	6.7	3.4
Fluorene	ND	6.7	3.4
Indeno(1,2,3-cd)pyrene	12	6.7	3.4
Naphthalene	ND	6.7	3.4
Phenanthrene	7.9	6.7	3.4
Pyrene	43	6.7	3.4
2-Methylnaphthalene	ND	6.7	3.4
1-Methylnaphthalene	ND	6.7	3.4

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	834	895	93	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.02g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 08:39
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B13-0.5	Date Analyzed: 05/08/18 19:16
Lab Samp ID: 18D145-07	Dilution Factor: 3
Lab File ID: REJ231	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 5.0
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	16	7.9
Acenaphthylene	9.5J	16	7.9
Anthracene	25	16	7.9
Benzo(a)anthracene	150	16	7.9
Benzo(a)pyrene	110	16	7.9
Benzo(b)fluoranthene	140	16	7.9
Benzo(k)fluoranthene	33	16	7.9
Benzo(g,h,i)perylene	92	16	7.9
Chrysene	240	16	7.9
Dibenzo(a,h)anthracene	26	16	7.9
Fluoranthene	210	16	7.9
Fluorene	ND	16	7.9
Indeno(1,2,3-cd)pyrene	54	16	7.9
Naphthalene	ND	16	7.9
Phenanthrene	120	16	7.9
Pyrene	220	16	7.9
2-Methylnaphthalene	ND	16	7.9
1-Methylnaphthalene	ND	16	7.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	669	702	95	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.03g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 08:50
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B13-2	Date Analyzed: 05/08/18 19:34
Lab Samp ID: 18D145-08	Dilution Factor: 3
Lab File ID: REJ232	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 8.1
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	16	8.2
Acenaphthylene	ND	16	8.2
Anthracene	12J	16	8.2
Benzo(a)anthracene	91	16	8.2
Benzo(a)pyrene	72	16	8.2
Benzo(b)fluoranthene	68	16	8.2
Benzo(k)fluoranthene	17	16	8.2
Benzo(g,h,i)perylene	66	16	8.2
Chrysene	220	16	8.2
Dibenzo(a,h)anthracene	24	16	8.2
Fluoranthene	47	16	8.2
Fluorene	ND	16	8.2
Indeno(1,2,3-cd)pyrene	32	16	8.2
Naphthalene	ND	16	8.2
Phenanthrene	58	16	8.2
Pyrene	83	16	8.2
2-Methylnaphthalene	ND	16	8.2
1-Methylnaphthalene	ND	16	8.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	779	725	107	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 08:57
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B13-5	Date Analyzed: 05/09/18 12:22
Lab Samp ID: 18D145-09	Dilution Factor: 2
Lab File ID: REJ249	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 6.9
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	11	5.4
Acenaphthylene	17	11	5.4
Anthracene	7.1J	11	5.4
Benzo(a)anthracene	73	11	5.4
Benzo(a)pyrene	77	11	5.4
Benzo(b)fluoranthene	78	11	5.4
Benzo(k)fluoranthene	16	11	5.4
Benzo(g,h,i)perylene	62	11	5.4
Chrysene	92	11	5.4
Dibenzo(a,h)anthracene	10J	11	5.4
Fluoranthene	110	11	5.4
Fluorene	ND	11	5.4
Indeno(1,2,3-cd)pyrene	40	11	5.4
Naphthalene	ND	11	5.4
Phenanthrene	29	11	5.4
Pyrene	140	11	5.4
2-Methylnaphthalene	ND	11	5.4
1-Methylnaphthalene	ND	11	5.4

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	684	716	96	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 09:06
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B13-10	Date Analyzed: 05/09/18 12:40
Lab Samp ID: 18D145-12	Dilution Factor: 1
Lab File ID: REJ250	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 13.7
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.8	2.9
Acenaphthylene	ND	5.8	2.9
Anthracene	ND	5.8	2.9
Benzo(a)anthracene	ND	5.8	2.9
Benzo(a)pyrene	ND	5.8	2.9
Benzo(b)fluoranthene	ND	5.8	2.9
Benzo(k)fluoranthene	ND	5.8	2.9
Benzo(g,h,i)perylene	ND	5.8	2.9
Chrysene	ND	5.8	2.9
Dibenzo(a,h)anthracene	ND	5.8	2.9
Fluoranthene	ND	5.8	2.9
Fluorene	ND	5.8	2.9
Indeno(1,2,3-cd)pyrene	ND	5.8	2.9
Naphthalene	ND	5.8	2.9
Phenanthrene	ND	5.8	2.9
Pyrene	ND	5.8	2.9
2-Methylnaphthalene	ND	5.8	2.9
1-Methylnaphthalene	ND	5.8	2.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	780	773	101	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.02g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 07:32
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B11-0.5	Date Analyzed: 05/09/18 12:59
Lab Samp ID: 18D145-13	Dilution Factor: 3
Lab File ID: REJ251	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 3.0
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	15	7.7
Acenaphthylene	8.4J	15	7.7
Anthracene	9.3J	15	7.7
Benzo(a)anthracene	51	15	7.7
Benzo(a)pyrene	50	15	7.7
Benzo(b)fluoranthene	59	15	7.7
Benzo(k)fluoranthene	13J	15	7.7
Benzo(g,h,i)perylene	73	15	7.7
Chrysene	78	15	7.7
Dibenzo(a,h)anthracene	11J	15	7.7
Fluoranthene	62	15	7.7
Fluorene	ND	15	7.7
Indeno(1,2,3-cd)pyrene	30	15	7.7
Naphthalene	9.9J	15	7.7
Phenanthrene	37	15	7.7
Pyrene	79	15	7.7
2-Methylnaphthalene	12J	15	7.7
1-Methylnaphthalene	ND	15	7.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	689	687	100	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.01g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 07:36
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B11-2	Date Analyzed: 05/09/18 13:18
Lab Samp ID: 18D145-14	Dilution Factor: 3
Lab File ID: REJ252	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 5.8
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	16	8.0
Acenaphthylene	ND	16	8.0
Anthracene	ND	16	8.0
Benzo(a)anthracene	23	16	8.0
Benzo(a)pyrene	19	16	8.0
Benzo(b)fluoranthene	19	16	8.0
Benzo(k)fluoranthene	ND	16	8.0
Benzo(g,h,i)perylene	26	16	8.0
Chrysene	26	16	8.0
Dibenzo(a,h)anthracene	ND	16	8.0
Fluoranthene	25	16	8.0
Fluorene	ND	16	8.0
Indeno(1,2,3-cd)pyrene	11J	16	8.0
Naphthalene	ND	16	8.0
Phenanthrene	18	16	8.0
Pyrene	33	16	8.0
2-Methylnaphthalene	11J	16	8.0
1-Methylnaphthalene	ND	16	8.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	702	708	99	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 08:05
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B11-5	Date Analyzed: 05/09/18 13:37
Lab Samp ID: 18D145-15	Dilution Factor: 5
Lab File ID: REJ253	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 10.8
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	28	14
Acenaphthylene	32	28	14
Anthracene	17J	28	14
Benzo(a)anthracene	130	28	14
Benzo(a)pyrene	140	28	14
Benzo(b)fluoranthene	130	28	14
Benzo(k)fluoranthene	43	28	14
Benzo(g,h,i)perylene	120	28	14
Chrysene	130	28	14
Dibenzo(a,h)anthracene	19J	28	14
Fluoranthene	190	28	14
Fluorene	ND	28	14
Indeno(1,2,3-cd)pyrene	77	28	14
Naphthalene	ND	28	14
Phenanthrene	69	28	14
Pyrene	240	28	14
2-Methylnaphthalene	ND	28	14
1-Methylnaphthalene	ND	28	14

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	774	747	104	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.01g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

QC SUMMARIES

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/27/18 14:04
Project : POLA-1500 I STREET	Date Received: 04/27/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : MBLK1S	Date Analyzed: 05/07/18 10:27
Lab Samp ID: SVD041SB	Dilution Factor: 1
Lab File ID: REJ162	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: NA
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.0	2.5
Acenaphthylene	ND	5.0	2.5
Anthracene	ND	5.0	2.5
Benzo(a)anthracene	ND	5.0	2.5
Benzo(a)pyrene	ND	5.0	2.5
Benzo(b)fluoranthene	ND	5.0	2.5
Benzo(k)fluoranthene	ND	5.0	2.5
Benzo(g,h,i)perylene	ND	5.0	2.5
Chrysene	ND	5.0	2.5
Dibenzo(a,h)anthracene	ND	5.0	2.5
Fluoranthene	ND	5.0	2.5
Fluorene	ND	5.0	2.5
Indeno(1,2,3-cd)pyrene	ND	5.0	2.5
Naphthalene	ND	5.0	2.5
Phenanthrene	ND	5.0	2.5
Pyrene	ND	5.0	2.5
2-Methylnaphthalene	ND	5.0	2.5
1-Methylnaphthalene	ND	5.0	2.5

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	656	667	98	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3550B/8270C SIM

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: SVD041SB	SVD041SL	SVD041SC
LAB FILE ID	: REJ162	REJ163	REJ164
DATE PREPARED	: 04/27/18 14:04	04/27/18 14:04	04/27/18 14:04
DATE ANALYZED	: 05/07/18 10:27	05/07/18 10:45	05/07/18 11:04
PREP BATCH	: 18SVD041S	18SVD041S	18SVD041S
CALIBRATION REF	: RBJ167	RBJ167	RBJ167

ACCESSION:

PARAMETERS	MBResult (ug/kg)	SpikeAmt (ug/kg)	LCSResult (ug/kg)	LCSRec (%)	SpikeAmt (ug/kg)	LCDResult (ug/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Acenaphthene	ND	1330	1100	83	1330	1030	77	7	45-110	30
Acenaphthylene	ND	1330	1210	91	1330	1140	86	6	45-105	30
Anthracene	ND	1330	1160	87	1330	1130	85	3	55-105	30
Benzo(a)anthracene	ND	1330	1340	101	1330	1310	98	2	50-110	30
Benzo(a)pyrene	ND	1330	1280	96	1330	1240	93	3	50-110	30
Benzo(b)fluoranthene	ND	1330	1260	95	1330	1200	90	5	45-115	30
Benzo(k)fluoranthene	ND	1330	1230	92	1330	1220	92	1	45-125	30
Benzo(g,h,i)perylene	ND	1330	1230	92	1330	1200	90	2	40-125	30
Chrysene	ND	1330	1390	104	1330	1360	102	2	55-110	30
Dibenzo(a,h)anthracene	ND	1330	1320	99	1330	1290	97	2	40-125	30
Fluoranthene	ND	1330	1300	98	1330	1270	95	2	55-115	30
Fluorene	ND	1330	1210	91	1330	1140	86	6	50-110	30
Indeno(1,2,3-cd)pyrene	ND	1330	1300	98	1330	1260	95	3	40-120	30
Naphthalene	ND	1330	1030	77	1330	980	74	5	40-105	30
Phenanthrene	ND	1330	1100	83	1330	1070	80	3	50-110	30
Pyrene	ND	1330	1290	97	1330	1260	95	2	45-125	30
2-Methylnaphthalene	ND	1330	1010	76	1330	954	72	6	45-105	30
1-Methylnaphthalene	ND	1330	1030	77	1330	965	72	7	30-160	30

SURROGATE PARAMETER	SpikeAmt (ug/kg)	LCSResult (ug/kg)	LCSRec (%)	SpikeAmt (ug/kg)	LCDResult (ug/kg)	LCDRec (%)	QCLimit (%)
Terphenyl-d14	667	656	98	667	621	93	30-125

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3550B/8270C SIM

MATRIX	: SOIL		% MOISTURE:14.3
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B11-15	B11-15MS	B11-15MSD
LAB SAMPLE ID	: 18D145-02	18D145-02M	18D145-02S
LAB FILE ID	: REJ189	REJ191	REJ192
DATE PREPARED	: 04/27/18 14:04	04/27/18 14:04	04/27/18 14:04
DATE ANALYZED	: 05/07/18 18:52	05/07/18 19:30	05/07/18 19:49
PREP BATCH	: 18SVD041S	18SVD041S	18SVD041S
CALIBRATION REF	: RBJ167	RBJ167	RBJ167

ACCESSION:

PARAMETERS	PSResult (ug/kg)	SpikeAmt (ug/kg)	MSResult (ug/kg)	MSRec (%)	SpikeAmt (ug/kg)	MSDResult (ug/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Acenaphthene	ND	1560	1140	73	1560	1200	77	5	45-110	30
Acenaphthylene	ND	1560	1260	81	1560	1320	85	5	45-105	30
Anthracene	ND	1560	1270	82	1560	1310	84	3	55-105	30
Benzo(a)anthracene	ND	1560	1350	87	1560	1420	91	5	50-110	30
Benzo(a)pyrene	ND	1560	1420	91	1560	1460	94	3	50-110	30
Benzo(b)fluoranthene	ND	1560	1330	85	1560	1360	87	2	45-115	30
Benzo(k)fluoranthene	ND	1560	1450	93	1560	1500	96	3	45-125	30
Benzo(g,h,i)perylene	ND	1560	1340	86	1560	1370	88	2	40-125	30
Chrysene	ND	1560	1370	88	1560	1450	93	6	55-110	30
Dibenzo(a,h)anthracene	ND	1560	1450	93	1560	1480	95	2	40-125	30
Fluoranthene	ND	1560	1390	89	1560	1430	92	3	55-115	30
Fluorene	ND	1560	1240	80	1560	1300	84	5	50-110	30
Indeno(1,2,3-cd)pyrene	ND	1560	1420	91	1560	1450	93	2	40-120	30
Naphthalene	ND	1560	1120	72	1560	1190	76	6	40-105	30
Phenanthrene	ND	1560	1220	78	1560	1250	80	2	50-110	30
Pyrene	ND	1560	1360	87	1560	1420	91	4	45-125	30
2-Methylnaphthalene	ND	1560	1090	70	1560	1150	74	5	45-105	30
1-Methylnaphthalene	ND	1560	1100	71	1560	1160	75	5	30-160	30

SURROGATE PARAMETER	SpikeAmt (ug/kg)	MSResult (ug/kg)	MSRec (%)	SpikeAmt (ug/kg)	MSDResult (ug/kg)	MSDRec (%)	QCLimit (%)
Terphenyl-d14	778	674	87	778	657	84	30-125

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two (2) water samples were received on 04/18/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5030B/SW8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VG39D09B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VG39D09L/VG39D09C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : GCT039

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	GMD011SB	1	NA	04/23/1823:40	04/23/1823:40	ED23021A	ED23016A	GMD011S	Method Blank
LCS1S	GMD011SL	1	NA	04/23/1822:23	04/23/1822:23	ED23019A	ED23016A	GMD011S	Lab Control Sample (LCS)
LCD1S	GMD011SC	1	NA	04/23/1823:01	04/23/1823:01	ED23020A	ED23016A	GMD011S	LCS Duplicate
B11-10	D145-01I	0.92	22.7	04/24/1800:18	04/24/1800:18	ED23022A	ED23016A	GMD011S	Diluted Sample
B11-15	D145-02I	0.82	14.3	04/24/1800:57	04/24/1800:57	ED23023A	ED23016A	GMD011S	Diluted Sample
B12-0.5	D145-03I	1.04	5.8	04/24/1801:35	04/24/1801:35	ED23024A	ED23016A	GMD011S	Diluted Sample
B12-2	D145-04I	1.09	5.3	04/24/1802:13	04/24/1802:13	ED23025A	ED23016A	GMD011S	Diluted Sample
B12-5	D145-05I	1.08	12.5	04/24/1802:52	04/24/1802:52	ED23026A	ED23016A	GMD011S	Diluted Sample
B12-10	D145-06I	0.91	25.5	04/24/1803:30	04/24/1803:30	ED23027A	ED23016A	GMD011S	Diluted Sample
B13-0.5	D145-07I	1	5.0	04/24/1804:47	04/24/1804:47	ED23029A	ED23028A	GMD011S	Diluted Sample
B13-2	D145-08I	1.14	8.1	04/24/1805:26	04/24/1805:26	ED23030A	ED23028A	GMD011S	Diluted Sample
B13-5	D145-09I	1.33	6.9	04/24/1806:04	04/24/1806:04	ED23031A	ED23028A	GMD011S	Diluted Sample
B11-10D	D145-10I	0.88	21.7	04/24/1806:42	04/24/1806:42	ED23032A	ED23028A	GMD011S	Diluted Sample
B13-10	D145-12I	0.77	13.7	04/24/1807:21	04/24/1807:21	ED23033A	ED23028A	GMD011S	Diluted Sample
B11-0.5	D145-13I	1.19	3.0	04/24/1807:59	04/24/1807:59	ED23034A	ED23028A	GMD011S	Diluted Sample
B11-2	D145-14I	1.21	5.8	04/24/1808:38	04/24/1808:38	ED23035A	ED23028A	GMD011S	Diluted Sample
B11-5	D145-15I	1.22	10.8	04/24/1809:16	04/24/1809:16	ED23036A	ED23028A	GMD011S	Diluted Sample
B11-5MS	D145-15M	1.22	10.8	04/24/1809:55	04/24/1809:55	ED23037A	ED23028A	GMD011S	Matrix Spike Sample (MS)
B11-5MSD	D145-15S	1.22	10.8	04/24/1810:34	04/24/1810:34	ED23038A	ED23028A	GMD011S	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 00:18
Sample ID: B11-10	Date Analyzed: 04/24/18 00:18
Lab Samp ID: D145-01I	Dilution Factor: 0.92
Lab File ID: ED23022A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 22.7
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.2	0.60

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.96	2.380	82.2	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 00:57
Sample ID: B11-15	Date Analyzed: 04/24/18 00:57
Lab Samp ID: D145-02I	Dilution Factor: 0.82
Lab File ID: ED23023A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 14.3
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.96	0.48

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.59	1.914	83.0	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 01:35
Sample ID: B12-0.5	Date Analyzed: 04/24/18 01:35
Lab Samp ID: D145-03I	Dilution Factor: 1.04
Lab File ID: ED23024A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 5.8
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.55

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.76	2.208	79.8	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 02:13
Sample ID: B12-2	Date Analyzed: 04/24/18 02:13
Lab Samp ID: D145-04I	Dilution Factor: 1.09
Lab File ID: ED23025A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 5.3
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.2	0.58

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.76	2.302	76.4	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 02:52
Sample ID: B12-5	Date Analyzed: 04/24/18 02:52
Lab Samp ID: D145-05I	Dilution Factor: 1.08
Lab File ID: ED23026A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 12.5
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.2	0.62

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.05	2.469	83.2	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 03:30
Sample ID: B12-10	Date Analyzed: 04/24/18 03:30
Lab Samp ID: D145-06I	Dilution Factor: 0.91
Lab File ID: ED23027A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 25.5
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.2	0.61

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.08	2.443	85.1	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 04:47
Sample ID: B13-0.5	Date Analyzed: 04/24/18 04:47
Lab Samp ID: D145-07I	Dilution Factor: 1
Lab File ID: ED23029A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 5.0
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.53

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.76	2.105	83.4	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 05:26
Sample ID: B13-2	Date Analyzed: 04/24/18 05:26
Lab Samp ID: D145-08I	Dilution Factor: 1.14
Lab File ID: ED23030A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 8.1
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.2	0.62

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.01	2.481	81.0	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 06:04
Sample ID: B13-5	Date Analyzed: 04/24/18 06:04
Lab Samp ID: D145-09I	Dilution Factor: 1.33
Lab File ID: ED23031A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 6.9
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.4	0.71

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.32	2.857	81.0	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 06:42
Sample ID: B11-10D	Date Analyzed: 04/24/18 06:42
Lab Samp ID: D145-10I	Dilution Factor: 0.88
Lab File ID: ED23032A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 21.7
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.56

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.82	2.248	80.8	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 07:21
Sample ID: B13-10	Date Analyzed: 04/24/18 07:21
Lab Samp ID: D145-12I	Dilution Factor: 0.77
Lab File ID: ED23033A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 13.7
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.89	0.45

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.47	1.784	82.3	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 07:59
Sample ID: B11-0.5	Date Analyzed: 04/24/18 07:59
Lab Samp ID: D145-13I	Dilution Factor: 1.19
Lab File ID: ED23034A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 3.0
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.2	0.61

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.85	2.454	75.6	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 08:38
Sample ID: B11-2	Date Analyzed: 04/24/18 08:38
Lab Samp ID: D145-14I	Dilution Factor: 1.21
Lab File ID: ED23035A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 5.8
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.3	0.64

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.09	2.569	81.5	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 09:16
Sample ID: B11-5	Date Analyzed: 04/24/18 09:16
Lab Samp ID: D145-15I	Dilution Factor: 1.22
Lab File ID: ED23036A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 10.8
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.4	0.68

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.22	2.735	81.0	10-160

Parameter	H-C Range
Gasoline	C5-C12

QC SUMMARIES

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/23/18
Batch No. : 18D145	Date Extracted: 04/23/18 23:40
Sample ID: MBLK1S	Date Analyzed: 04/23/18 23:40
Lab Samp ID: GMD011SB	Dilution Factor: 1
Lab File ID: ED23021A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : NA
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.70	2.000	85.1	70-140

Parameter	H-C Range
Gasoline	C5-C12

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D145
METHOD: METHOD SW5035A/SW8015B

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: GMD011SB GMD011SL GMD011SC
LAB FILE ID: ED23021A ED23019A ED23020A
DATE EXTRACTED: 04/23/1823:40 04/23/1822:23 04/23/1823:01 DATE COLLECTED: NA
DATE ANALYZED: 04/23/1823:40 04/23/1822:23 04/23/1823:01 DATE RECEIVED: 04/23/18
PREP. BATCH: GMD011S GMD011S GMD011S
CALIB. REF: ED23016A ED23016A ED23016A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	25.0	24.1	96	25.0	24.1	97	0	60-130	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.00	2.22	111	2.00	2.21	110	70-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D145
METHOD: METHOD SW5035A/SW8015B

MATRIX:	SOIL			% MOISTURE:	10.8
DILUTION FACTOR:	1.22	1.22	1.22		
SAMPLE ID:	B11-5				
LAB SAMP ID:	D145-15I	D145-15M	D145-15S		
LAB FILE ID:	ED23036A	ED23037A	ED23038A		
DATE EXTRACTED:	04/24/1809:16	04/24/1809:55	04/24/1810:34	DATE COLLECTED:	04/18/18
DATE ANALYZED:	04/24/1809:16	04/24/1809:55	04/24/1810:34	DATE RECEIVED:	04/18/18
PREP. BATCH:	GMD011S	GMD011S	GMD011S		
CALIB. REF:	ED23028A	ED23028A	ED23028A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	34.2	29.3	86	34.2	29.2	85	0	10-160	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.74	2.62	96	2.74	2.70	99	10-160

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of fourteen (14) soil samples were received on 04/18/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5035A/SW8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. GMD011SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. GMD011SL/GMD011SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Gasoline was within MS QC limits in D145-15M/S. Refer to Matrix QC summary form for details.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : GCT039

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1W	VG39D09L	1	NA	04/24/1812:06	04/24/1812:06	ED23040A	ED23039A	VG39D0	Lab Control Sample (LCS)
LCD1W	VG39D09C	1	NA	04/24/1812:45	04/24/1812:45	ED23041A	ED23039A	VG39D0	LCS Duplicate
MBLK1W	VG39D09B	1	NA	04/24/1813:27	04/24/1813:27	ED23042A	ED23039A	VG39D0	Method Blank
B11	18D145-11	1	NA	04/24/1817:58	04/24/1817:58	ED23049A	ED23048A	VG39D0	Field Sample
EB	18D145-16	1	NA	04/24/1818:37	04/24/1818:37	ED23050A	ED23048A	VG39D0	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/18/18 09:48
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 17:58
Sample ID	: B11	Date Analyzed:	04/24/18 17:58
Lab Samp ID:	18D145-11	Dilution Factor:	1
Lab File ID:	ED23049A	Matrix:	WATER
Ext Btch ID:	VG39D0	% Moisture:	NA
Calib. Ref.:	ED23048A	Instrument ID:	39

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	0.015J	0.10	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0327	0.0400	82	60-140

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.0ML	Final Volume :	5.0ML
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/18/18 08:15
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 18:37
Sample ID	: EB	Date Analyzed:	04/24/18 18:37
Lab Samp ID:	18D145-16	Dilution Factor:	1
Lab File ID:	ED23050A	Matrix:	WATER
Ext Btch ID:	VG39D0	% Moisture:	NA
Calib. Ref.:	ED23048A	Instrument ID:	39

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	0.014J	0.10	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0325	0.0400	81	60-140

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.0ML	Final Volume :	5.0ML
Prepared by	: SCerva	Analyzed by :	SCerva

QC SUMMARIES

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/24/18 13:27
Project	: POLA-1500 I STREET	Date Received:	04/24/18
Batch No.	: 18D145	Date Extracted:	04/24/18 13:27
Sample ID	: MBLK1W	Date Analyzed:	04/24/18 13:27
Lab Samp ID:	VG39D09B	Dilution Factor:	1
Lab File ID:	ED23042A	Matrix:	WATER
Ext Btch ID:	VG39D0	% Moisture:	NA
Calib. Ref.:	ED23039A	Instrument ID:	39

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.10	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0344	0.0400	86	60-140

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.0ML	Final Volume :	5.0ML
Prepared by	: SCerva	Analyzed by :	SCerva

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : SW5030B/SW8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: VG39D09B	VG39D09L	VG39D09C
LAB FILE ID	: ED23042A	ED23040A	ED23041A
DATE PREPARED	: 04/24/18 13:27	04/24/18 12:06	04/24/18 12:45
DATE ANALYZED	: 04/24/18 13:27	04/24/18 12:06	04/24/18 12:45
PREP BATCH	: VG39D0	VG39D0	VG39D0
CALIBRATION REF	: ED23039A	ED23039A	ED23039A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.497	99	0.500	0.475	95	5	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0410	103	0.0400	0.0380	95	70-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD SW3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two (2) water samples were received on 04/18/18 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method SW3520C/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSD021WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSD021WL/DSD021WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

Sample D145-11 displayed heavier fuel pattern.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : D5

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSD021WB	1	NA	04/24/1812:48	04/23/1813:15	LD24008A	LD24004A	18DSD021W	Method Blank
LCS1W	DSD021WL	1	NA	04/24/1813:04	04/23/1813:15	LD24009A	LD24004A	18DSD021W	Lab Control Sample (LCS)
LCD1W	DSD021WC	1	NA	04/24/1814:03	04/23/1813:15	LD24010A	LD24004A	18DSD021W	LCS Duplicate
B11	D145-11	1	NA	04/24/1819:21	04/23/1813:15	LD24029A	LD24022A	18DSD021W	Field Sample
EB	D145-16	1	NA	04/24/1819:38	04/23/1813:15	LD24030A	LD24022A	18DSD021W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 09:48
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/23/18 13:15
Sample ID	: B11	Date Analyzed:	04/24/18 19:21
Lab Samp ID:	18D145-11	Dilution Factor:	1
Lab File ID:	LD24029A	Matrix:	WATER
Ext Btch ID:	18DSD021W	% Moisture:	NA
Calib. Ref.:	LD24022A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	0.37J	0.50	0.10
Motor Oil	1.4	0.50	0.10

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.742	1.00	74	50-130
Hexacosane	0.296	0.250	119	40-150

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 500ml	Final Volume :	5ml
Prepared by	: KValer	Analyzed by :	SDeeso

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 08:15
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/23/18 13:15
Sample ID	: EB	Date Analyzed:	04/24/18 19:38
Lab Samp ID:	18D145-16	Dilution Factor:	1
Lab File ID:	LD24030A	Matrix:	WATER
Ext Btch ID:	18DSD021W	% Moisture:	NA
Calib. Ref.:	LD24022A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.50	0.10
Motor Oil	ND	0.50	0.10

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.805	1.00	81	50-130
Hexacosane	0.250	0.250	100	40-150

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 500ml	Final Volume :	5ml
Prepared by	: KValer	Analyzed by :	SDeeso

QC SUMMARIES

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/23/18 13:15
Project	: POLA-1500 I STREET	Date Received:	04/23/18
Batch No.	: 18D145	Date Extracted:	04/23/18 13:15
Sample ID	: MBLK1W	Date Analyzed:	04/24/18 12:48
Lab Samp ID:	DSD021WB	Dilution Factor:	1
Lab File ID:	LD24008A	Matrix:	WATER
Ext Btch ID:	18DSD021W	% Moisture:	NA
Calib. Ref.:	LD24004A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.50	0.10
Motor Oil	ND	0.50	0.10

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.957	1.00	96	50-130
Hexacosane	0.259	0.250	104	40-150

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1000ml	Final Volume	: 10ml
Prepared by	: KValer	Analyzed by	: SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: DSD021WB	DSD021WL	DSD021WC
LAB FILE ID	: LD24008A	LD24009A	LD24010A
DATE PREPARED	: 04/23/18 13:15	04/23/18 13:15	04/23/18 13:15
DATE ANALYZED	: 04/24/18 12:48	04/24/18 13:04	04/24/18 14:03
PREP BATCH	: 18DSD021W	18DSD021W	18DSD021W
CALIBRATION REF:	LD24004A	LD24004A	LD24004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	5.00	4.84	97	5.00	4.66	93	4	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromobenzene	1.00	1.01	101	1.00	0.986	99	50-130
Hexacosane	0.250	0.252	101	0.250	0.243	97	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of fourteen (14) soil samples were received on 04/18/18 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3550B/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSD024SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSD024SL/DSD024SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Diesel was within MS QC limits in D145-09M/S. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

Samples D145-03, -04, -08 and -13 displayed mixed fuel pattern.
Samples D145-05, -07, -14 and -15 displayed heavier fuel pattern.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : D5

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	DSD024SB	1	NA	04/25/1805:07	04/24/1811:45	LD24062A	LD24051A	18DSD024S	Method Blank
LCS1S	DSD024SL	1	NA	04/25/1805:23	04/24/1811:45	LD24063A	LD24051A	18DSD024S	Lab Control Sample (LCS)
LCD1S	DSD024SC	1	NA	04/25/1805:40	04/24/1811:45	LD24064A	LD24051A	18DSD024S	LCS Duplicate
B11-10	D145-01	1	22.7	04/25/1805:56	04/24/1811:45	LD24065A	LD24051A	18DSD024S	Field Sample
B11-15	D145-02	1	14.3	04/25/1806:46	04/24/1811:45	LD24068A	LD24066A	18DSD024S	Field Sample
B12-0.5	D145-03	1	5.8	04/25/1807:03	04/24/1811:45	LD24069A	LD24066A	18DSD024S	Field Sample
B12-2	D145-04	1	5.3	04/25/1807:36	04/24/1811:45	LD24071A	LD24066A	18DSD024S	Field Sample
B12-5	D145-05	1	12.5	04/25/1807:52	04/24/1811:45	LD24072A	LD24066A	18DSD024S	Field Sample
B12-10	D145-06	1	25.5	04/25/1808:09	04/24/1811:45	LD24073A	LD24066A	18DSD024S	Field Sample
B13-0.5	D145-07	1	5.0	04/25/1808:26	04/24/1811:45	LD24074A	LD24066A	18DSD024S	Field Sample
B13-2	D145-08	1	8.1	04/25/1808:42	04/24/1811:45	LD24075A	LD24066A	18DSD024S	Field Sample
B11-10D	D145-10	1	21.7	04/25/1808:59	04/24/1811:45	LD24076A	LD24066A	18DSD024S	Field Sample
B13-5	D145-09	1	6.9	04/25/1817:04	04/24/1811:45	LD24095A	LD24093A	18DSD024S	Field Sample
B13-5MS	D145-09M	1	6.9	04/25/1817:21	04/24/1811:45	LD24096A	LD24093A	18DSD024S	Matrix Spike Sample (MS)
B13-5MSD	D145-09S	1	6.9	04/25/1817:38	04/24/1811:45	LD24097A	LD24093A	18DSD024S	MS Duplicate (MSD)
B13-10	D145-12	1	13.7	04/25/1817:54	04/24/1811:45	LD24098A	LD24093A	18DSD024S	Field Sample
B11-0.5	D145-13	1	3.0	04/25/1818:11	04/24/1811:45	LD24099A	LD24093A	18DSD024S	Field Sample
B11-2	D145-14	1	5.8	04/25/1818:28	04/24/1811:45	LD24100A	LD24093A	18DSD024S	Field Sample
B11-5	D145-15I	5	10.8	04/25/1818:44	04/24/1811:45	LD24101A	LD24093A	18DSD024S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/18/18 08:18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 11:45
Sample ID : B11-10	Date Analyzed: 04/25/18 05:56
Lab Samp ID: 18D145-01	Dilution Factor: 1
Lab File ID: LD24065A	Matrix: SOIL
Ext Btch ID: 18DSD024S	% Moisture: 22.7
Calib. Ref.: LD24051A	Instrument ID: D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	13	6.5
Motor Oil	ND	26	6.5

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	135	129	104	50-130
Hexacosane	35.4	32.3	109	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount : 10.03g	Final Volume : 10ml
Prepared by : JVille/TW	Analyzed by : SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 08:34
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B11-15	Date Analyzed:	04/25/18 06:46
Lab Samp ID:	18D145-02	Dilution Factor:	1
Lab File ID:	LD24068A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	14.3
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	110	117	95	50-130
Hexacosane	29.6	29.2	101	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.03g	Final Volume	: 10ml
Prepared by	: JVille/TW	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 09:20
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B12-0.5	Date Analyzed:	04/25/18 07:03
Lab Samp ID:	18D145-03	Dilution Factor:	1
Lab File ID:	LD24069A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	5.8
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	27	11	5.3
Motor Oil	280	21	5.3

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	100	106	95	50-130
Hexacosane	25.7	26.5	97	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume	: 10ml
Prepared by	: JVille/TW	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 09:25
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B12-2	Date Analyzed:	04/25/18 07:36
Lab Samp ID:	18D145-04	Dilution Factor:	1
Lab File ID:	LD24071A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	5.3
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	13	11	5.3
Motor Oil	270	21	5.3

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	99.0	106	94	50-130
Hexacosane	26.3	26.4	100	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 09:34
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B12-5	Date Analyzed:	04/25/18 07:52
Lab Samp ID:	18D145-05	Dilution Factor:	1
Lab File ID:	LD24072A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	12.5
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.7
Motor Oil	72	23	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	111	114	97	50-130
Hexacosane	29.2	28.6	102	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.03g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 09:42
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B12-10	Date Analyzed:	04/25/18 08:09
Lab Samp ID:	18D145-06	Dilution Factor:	1
Lab File ID:	LD24073A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	25.5
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	13	6.7
Motor Oil	ND	27	6.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	132	134	98	50-130
Hexacosane	37.0	33.6	110	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.03g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 08:39
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B13-0.5	Date Analyzed:	04/25/18 08:26
Lab Samp ID:	18D145-07	Dilution Factor:	1
Lab File ID:	LD24074A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	5.0
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.3
Motor Oil	130	21	5.3

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	96.5	105	92	50-130
Hexacosane	25.0	26.3	95	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: JVille/TW	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 08:50
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B13-2	Date Analyzed:	04/25/18 08:42
Lab Samp ID:	18D145-08	Dilution Factor:	1
Lab File ID:	LD24075A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	8.1
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	12	11	5.4
Motor Oil	160	22	5.4

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	105	109	96	50-130
Hexacosane	28.3	27.2	104	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume	: 10ml
Prepared by	: JVille/TW	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 08:57
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B13-5	Date Analyzed:	04/25/18 17:04
Lab Samp ID:	18D145-09	Dilution Factor:	1
Lab File ID:	LD24095A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	6.9
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.4
Motor Oil	ND	21	5.4

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	105	107	98	50-130
Hexacosane	29.8	26.9	111	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 08:20
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B11-10D	Date Analyzed:	04/25/18 08:59
Lab Samp ID:	18D145-10	Dilution Factor:	1
Lab File ID:	LD24076A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	21.7
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	13	6.4
Motor Oil	ND	26	6.4

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	118	128	92	50-130
Hexacosane	31.2	31.9	98	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume	: 10ml
Prepared by	: JVille/TW	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 09:06
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B13-10	Date Analyzed:	04/25/18 17:54
Lab Samp ID:	18D145-12	Dilution Factor:	1
Lab File ID:	LD24098A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	13.7
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	117	116	101	50-130
Hexacosane	31.6	29.0	109	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 07:32
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B11-0.5	Date Analyzed:	04/25/18 18:11
Lab Samp ID:	18D145-13	Dilution Factor:	1
Lab File ID:	LD24099A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	3.0
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	19	10	5.2
Motor Oil	340	21	5.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	105	103	101	50-130
Hexacosane	29.0	25.8	113	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: JVille/TW	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 07:36
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B11-2	Date Analyzed:	04/25/18 18:28
Lab Samp ID:	18D145-14	Dilution Factor:	1
Lab File ID:	LD24100A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	5.8
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	6.9J	11	5.3
Motor Oil	150	21	5.3

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	112	106	106	50-130
Hexacosane	31.1	26.5	117	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.04g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 08:05
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B11-5	Date Analyzed:	04/25/18 18:44
Lab Samp ID:	18D145-15I	Dilution Factor:	5
Lab File ID:	LD24101A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	10.8
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	56	28
Motor Oil	690	112	28

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	103	112	92	50-130
Hexacosane	27.6	28.0	98	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

QC SUMMARIES

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/24/18 11:45
Project	: POLA-1500 I STREET	Date Received:	04/24/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: MBLK1S	Date Analyzed:	04/25/18 05:07
Lab Samp ID:	DSD024SB	Dilution Factor:	1
Lab File ID:	LD24062A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	NA
Calib. Ref.:	LD24051A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.0
Motor Oil	ND	20	5.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	101	100	101	50-130
Hexacosane	26.8	25.0	107	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3550B/8015B

MATRIX : SOIL			% MOISTURE:NA
DILUTION FACTOR: 1		1	1
SAMPLE ID : MBLK1S		LCS1S	LCD1S
LAB SAMPLE ID : DSD024SB		DSD024SL	DSD024SC
LAB FILE ID : LD24062A		LD24063A	LD24064A
DATE PREPARED : 04/24/18 11:45		04/24/18 11:45	04/24/18 11:45
DATE ANALYZED : 04/25/18 05:07		04/25/18 05:23	04/25/18 05:40
PREP BATCH : 18DSD024S		18DSD024S	18DSD024S
CALIBRATION REF: LD24051A		LD24051A	LD24051A

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	500	518	104	500	529	106	2	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	QCLimit (%)
Bromobenzene	100	104	104	100	102	102	50-130
Hexacosane	25.0	27.5	110	25.0	26.7	107	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3550B/8015B

MATRIX	: SOIL		% MOISTURE:6.9
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B13-5	B13-5MS	B13-5MSD
LAB SAMPLE ID	: 18D145-09	18D145-09M	18D145-09S
LAB FILE ID	: LD24095A	LD24096A	LD24097A
DATE PREPARED	: 04/24/18 11:45	04/24/18 11:45	04/24/18 11:45
DATE ANALYZED	: 04/25/18 17:04	04/25/18 17:21	04/25/18 17:38
PREP BATCH	: 18DSD024S	18DSD024S	18DSD024S
CALIBRATION REF	: LD24093A	LD24093A	LD24093A

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	537	588	109	537	608	113	3	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	QCLimit (%)
Bromobenzene	107	112	104	107	113	105	50-130
Hexacosane	26.9	28.2	105	26.9	30.4	113	40-160

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW3550B/SW8082
PCBs

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD SW3550B/SW8082
PCBS

A total of three (3) soil samples were received on 04/18/18 to be analyzed for PCBs in accordance with Method SW3550B/SW8082 and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. 60D016SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. 60D016SL/60D016SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Relative percentage difference (RPD) between the two results was evaluated. If RPD is less than 40% and peaks are well defined the higher result is reported. Where RPD is greater than 40% the chromatogram was checked for anomalies and results were selected based on processed knowledge. If there is no evidence of any chromatographic ambiguity, the higher result is reported.

Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample extracts subjected to appropriate cleanup technique to reduce matrix interference are recorded in extraction log. Refer to extraction log for details.

LAB CHRONICLE
PCBs

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : 71

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	60D016SB	1	NA	04/24/1803:36	04/20/1815:05	KD23032A	KD23021A	CPD016S	Method Blank
LCS1S	60D016SL	1	NA	04/23/1819:32	04/20/1815:05	KD23008A	KD23005A	CPD016S	Lab Control Sample (LCS)
LCD1S	60D016SC	1	NA	04/23/1819:52	04/20/1815:05	KD23009A	KD23005A	CPD016S	LCS Duplicate
B12-0.5	D145-03	1	5.8	04/24/1802:35	04/20/1815:05	KD23029A	KD23021A	CPD016S	Field Sample
B13-0.5	D145-07	1	5.0	04/24/1802:55	04/20/1815:05	KD23030A	KD23021A	CPD016S	Field Sample
B11-0.5	D145-13	1	3.0	04/24/1803:15	04/20/1815:05	KD23031A	KD23021A	CPD016S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/20/18 15:05
Sample ID: B12-0.5	Date Analyzed: 04/24/18 02:35
Lab Samp ID: D145-03	Dilution Factor: 1
Lab File ID: KD23029A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 5.8
Calib. Ref.: KD23021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	53	18 | 18
PCB-1221	(ND) | ND	53	18 | 18
PCB-1232	(ND) | ND	53	18 | 18
PCB-1242	(ND) | ND	53	18 | 18
PCB-1248	(ND) | ND	53	18 | 18
PCB-1254	(ND) | ND	53	18 | 18
PCB-1260	(35J) | 33J	53	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(14.07) | 14.03	14.15	(99.4) | 99.1	50-130
DECACHLOROBIPHENYL	(15.48) | 14.47	14.15	(109) | 102	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/20/18 15:05
Sample ID: B13-0.5	Date Analyzed: 04/24/18 02:55
Lab Samp ID: D145-07	Dilution Factor: 1
Lab File ID: KD23030A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 5.0
Calib. Ref.: KD23021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	53	18 | 18
PCB-1221	(ND) | ND	53	18 | 18
PCB-1232	(ND) | ND	53	18 | 18
PCB-1242	(ND) | ND	53	18 | 18
PCB-1248	(ND) | ND	53	18 | 18
PCB-1254	(ND) | ND	53	18 | 18
PCB-1260	(45J) | 43J	53	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	14.17 | (14.35)	14.03	101 | (102)	50-130
DECACHLOROBIPHENYL	(16.39) | 13.98	14.03	(117) | 99.6	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/20/18 15:05
Sample ID: B11-0.5	Date Analyzed: 04/24/18 03:15
Lab Samp ID: D145-13	Dilution Factor: 1
Lab File ID: KD23031A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 3.0
Calib. Ref.: KD23021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	52	17 | 17
PCB-1221	(ND) | ND	52	17 | 17
PCB-1232	(ND) | ND	52	17 | 17
PCB-1242	(ND) | ND	52	17 | 17
PCB-1248	(ND) | ND	52	17 | 17
PCB-1254	(ND) | ND	52	17 | 17
PCB-1260	58 | (61)	52	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(13.84) | 13.61	13.74	(101) | 99.0	50-130
DECACHLOROBIPHENYL	(16.10) | 14.08	13.74	(117) | 102	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

QC SUMMARIES

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/20/18
Batch No. : 18D145	Date Extracted: 04/20/18 15:05
Sample ID: MBLK1S	Date Analyzed: 04/24/18 03:36
Lab Samp ID: 60D016SB	Dilution Factor: 1
Lab File ID: KD23032A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : NA
Calib. Ref.: KD23021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	50	17 | 17
PCB-1221	(ND) | ND	50	17 | 17
PCB-1232	(ND) | ND	50	17 | 17
PCB-1242	(ND) | ND	50	17 | 17
PCB-1248	(ND) | ND	50	17 | 17
PCB-1254	(ND) | ND	50	17 | 17
PCB-1260	(ND) | ND	50	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.79 | (14.15)	13.33	103 | (106)	60-130
DECACHLOROBIPHENYL	(17.67) | 14.59	13.33	(133) | 109	70-140

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D145
METHOD: SW3550B/SW8082

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: 60D016SB 60D016SL 60D016SC
LAB FILE ID: KD23032A KD23008A KD23009A
DATE EXTRACTED: 04/20/1815:05 04/20/1815:05 04/20/1815:05 DATE COLLECTED: NA
DATE ANALYZED: 04/24/1803:36 04/23/1819:32 04/23/1819:52 DATE RECEIVED: 04/20/18
PREP. BATCH: CPD016S CPD016S CPD016S
CALIB. REF: KD23021A KD23005A KD23005A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND)|ND	167	(154)|148	(92)|89	167	(171)|166	(103)|100	(10)|11	70-140	50
PCB-1260	(ND)|ND	167	(180)|150	(108)|90	167	(185)|166	(111)|100	(3)|10	70-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.33	(11.91)|10.98	(89.4)|82.4	13.33	(13.48)|12.98	(101)|97.4	60-130
Decachlorobiphenyl	13.33	(15.50)|13.26	(116)|99.5	13.33	(15.74)|14.20	(118)|107	70-140

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METALS / MERCURY

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 3010A/6010B
METALS BY TRACE ICP

One (1) water sample was received on 04/18/18 to be analyzed for Metals by Trace ICP in accordance with Method 3010A/6010B and project specific requirements.

Holding Time
The sample was digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD030WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD030WL/IPD030WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : ID8

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	IPD030WB	1.000	NA	04/23/1822:20	04/23/1810:17	ID8D018124	ID8D018122	IPD030W	Method Blank
LCS1W	IPD030WL	1.000	NA	04/23/1822:24	04/23/1810:17	ID8D018125	ID8D018122	IPD030W	Lab Control Sample (LCS)
LCD1W	IPD030WC	1.000	NA	04/23/1822:28	04/23/1810:17	ID8D018126	ID8D018122	IPD030W	LCS Duplicate
EB	D145-16	1.000	NA	04/23/1823:28	04/23/1810:17	ID8D018142	ID8D018132	IPD030W	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3010A/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: EB
Lab Samp ID: D145-16
Lab File ID: ID8D018142
Ext Btch ID: IPD030W
Calib. Ref.: ID8D018132

Date Collected: 04/18/18 08:15
Date Received: 04/18/18
Date Extracted: 04/23/18 10:17
Date Analyzed: 04/23/18 23:28
Dilution Factor: 1
Matrix: WATER
% Moisture: NA
Instrument ID: D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0300
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00300
Cobalt	ND	0.0100	0.00200
Copper	ND	0.0100	0.00300
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0100	0.00300
Nickel	ND	0.0100	0.00300
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00300
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00200
Zinc	ND	0.0200	0.0100

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 50ml
Prepared by : MCande

Final Volume:50ml
Analyzed by:MRomer

METHOD 3010A/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: MBLK1W
Lab Samp ID: IPD030WB
Lab File ID: ID8D018124
Ext Btch ID: IPD030W
Calib. Ref.: ID8D018122

Date Collected: NA
Date Received: NA
Date Extracted: 04/23/18 10:17
Date Analyzed: 04/23/18 22:20
Dilution Factor: 1
Matrix: WATER
% Moisture: NA
Instrument ID: D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0300
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00300
Cobalt	ND	0.0100	0.00200
Copper	ND	0.0100	0.00300
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0100	0.00300
Nickel	ND	0.0100	0.00300
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00300
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00200
Zinc	ND	0.0200	0.0100

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 50ml
Prepared by : MCande

Final Volume:50ml
Analyzed by:MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3010A/6010B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: IPD030WB	IPD030WL	IPD030WC
LAB FILE ID	: ID8D018124	ID8D018125	ID8D018126
DATE PREPARED	: 04/23/18 10:17	04/23/18 10:17	04/23/18 10:17
DATE ANALYZED	: 04/23/18 22:20	04/23/18 22:24	04/23/18 22:28
PREP BATCH	: IPD030W	IPD030W	IPD030W
CALIBRATION REF	: ID8D018122	ID8D018122	ID8D018122

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Antimony	ND	2.5	2.50	100	2.5	2.50	100	0	80-120	20
Arsenic	ND	0.5	0.509	102	0.5	0.510	102	0	80-120	20
Barium	ND	0.5	0.491	98	0.5	0.490	98	0	80-120	20
Beryllium	ND	0.5	0.462	92	0.5	0.466	93	1	80-120	20
Cadmium	ND	0.5	0.478	96	0.5	0.480	96	0	80-120	20
Chromium	ND	0.5	0.508	102	0.5	0.509	102	0	80-120	20
Cobalt	ND	0.5	0.479	96	0.5	0.482	96	1	80-120	20
Copper	ND	0.5	0.461	92	0.5	0.464	93	1	80-120	20
Lead	ND	0.5	0.483	97	0.5	0.486	97	1	80-120	20
Molybdenum	ND	0.5	0.520	104	0.5	0.523	105	1	80-120	20
Nickel	ND	0.5	0.472	94	0.5	0.475	95	1	80-120	20
Selenium	ND	0.5	0.486	97	0.5	0.487	97	0	80-120	20
Silver	ND	0.5	0.443	89	0.5	0.446	89	1	80-120	20
Thallium	ND	0.5	0.523	105	0.5	0.521	104	0	80-120	20
Vanadium	ND	0.5	0.509	102	0.5	0.512	102	1	80-120	20
Zinc	ND	0.5	0.510	102	0.5	0.512	102	0	80-120	20

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of thirteen (13) soil samples were received on 04/18/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD032SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD032SL/IPD032SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed and the following was noted: D145-01M/S - Percent recovery for Barium was not within MS QC limits. Presence of matrix interference was suspected. The rest of the analytes were in control. Analytical spike and serial dilution were analyzed and evaluated as appropriate. Results were within expected values. Refer to Matrix QC summary form for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD032SB	1.000	NA	04/25/1812:22	04/24/1810:21	ID8D020023	ID8D020018	IPD032S	Method Blank
LCS1S	IPD032SL	1.000	NA	04/25/1812:26	04/24/1810:21	ID8D020024	ID8D020018	IPD032S	Lab Control Sample (LCS)
LCD1S	IPD032SC	1.000	NA	04/25/1812:30	04/24/1810:21	ID8D020025	ID8D020018	IPD032S	LCS Duplicate
B11-10MS	D145-01M	1.000	22.7	04/25/1812:51	04/24/1810:21	ID8D020031	ID8D020029	IPD032S	Matrix Spike Sample (MS)
B11-10MSD	D145-01S	1.000	22.7	04/25/1812:55	04/24/1810:21	ID8D020032	ID8D020029	IPD032S	MS Duplicate (MSD)
B11-10	D145-01A	1.000	22.7	04/25/1812:59	04/24/1810:21	ID8D020033	ID8D020029	IPD032S	Analytical Spike Sample
B11-10	D145-01	1.000	22.7	04/25/1813:02	04/24/1810:21	ID8D020034	ID8D020029	IPD032S	Field Sample
B11-10	D145-01J	5.000	22.7	04/25/1813:06	04/24/1810:21	ID8D020035	ID8D020029	IPD032S	Diluted Sample
B11-15	D145-02	1.000	14.3	04/25/1813:10	04/24/1810:21	ID8D020036	ID8D020029	IPD032S	Field Sample
B12-0.5	D145-03	1.000	5.8	04/25/1813:14	04/24/1810:21	ID8D020037	ID8D020029	IPD032S	Field Sample
B12-2	D145-04	1.000	5.3	04/25/1813:17	04/24/1810:21	ID8D020038	ID8D020029	IPD032S	Field Sample
B12-5	D145-05	1.000	12.5	04/25/1813:21	04/24/1810:21	ID8D020039	ID8D020029	IPD032S	Field Sample
B12-10	D145-06	1.000	25.5	04/25/1813:25	04/24/1810:21	ID8D020040	ID8D020029	IPD032S	Field Sample
B13-0.5	D145-07	1.000	5.0	04/25/1813:36	04/24/1810:21	ID8D020043	ID8D020041	IPD032S	Field Sample
B13-2	D145-08	1.000	8.1	04/25/1813:39	04/24/1810:21	ID8D020044	ID8D020041	IPD032S	Field Sample
B13-5	D145-09	1.000	6.9	04/25/1813:43	04/24/1810:21	ID8D020045	ID8D020041	IPD032S	Field Sample
B13-10	D145-12	1.000	13.7	04/25/1813:47	04/24/1810:21	ID8D020046	ID8D020041	IPD032S	Field Sample
B11-0.5	D145-13	1.000	3.0	04/25/1813:51	04/24/1810:21	ID8D020047	ID8D020041	IPD032S	Field Sample
B11-2	D145-14	1.000	5.8	04/25/1813:54	04/24/1810:21	ID8D020048	ID8D020041	IPD032S	Field Sample
B11-5	D145-15	1.000	10.8	04/25/1813:58	04/24/1810:21	ID8D020049	ID8D020041	IPD032S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B11-10
Lab Samp ID: D145-01
Lab File ID: ID8D020034
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020029

Date Collected: 04/18/18 08:18
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:02
Dilution Factor: 1
Matrix: SOIL
% Moisture: 22.7
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	12.2	1.22
Arsenic	5.01	1.22	0.488
Barium	182	1.22	0.244
Beryllium	0.437J	1.22	0.244
Cadmium	0.519J	1.22	0.122
Chromium	25.4	1.22	0.244
Cobalt	16.8	1.22	0.244
Copper	21.7	1.22	0.244
Lead	4.79	1.22	0.244
Molybdenum	ND	6.10	0.610
Nickel	21.9	1.22	0.244
Selenium	ND	1.22	0.610
Silver	ND	1.22	0.305
Thallium	ND	1.22	0.610
Vanadium	50.9	1.22	0.610
Zinc	83.3	2.44	1.22

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.06g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B11-15
Lab Samp ID: D145-02
Lab File ID: ID8D020036
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020029

Date Collected: 04/18/18 08:34
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:10
Dilution Factor: 1
Matrix: SOIL
% Moisture: 14.3
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.7	1.07
Arsenic	2.82	1.07	0.428
Barium	86.7	1.07	0.214
Beryllium	0.452J	1.07	0.214
Cadmium	0.255J	1.07	0.107
Chromium	19.2	1.07	0.214
Cobalt	7.67	1.07	0.214
Copper	13.1	1.07	0.214
Lead	4.68	1.07	0.214
Molybdenum	ND	5.35	0.535
Nickel	14.1	1.07	0.214
Selenium	ND	1.07	0.535
Silver	ND	1.07	0.268
Thallium	ND	1.07	0.535
Vanadium	28.3	1.07	0.535
Zinc	39.4	2.14	1.07

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.09g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B12-0.5
Lab Samp ID: D145-03
Lab File ID: ID8D020037
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020029

Date Collected: 04/18/18 09:20
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:14
Dilution Factor: 1
Matrix: SOIL
% Moisture: 5.8
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.4	1.04
Arsenic	15.0	1.04	0.416
Barium	171	1.04	0.208
Beryllium	0.518J	1.04	0.208
Cadmium	1.42	1.04	0.104
Chromium	36.0	1.04	0.208
Cobalt	14.2	1.04	0.208
Copper	74.8	1.04	0.208
Lead	167	1.04	0.208
Molybdenum	2.12J	5.20	0.520
Nickel	31.2	1.04	0.208
Selenium	ND	1.04	0.520
Silver	ND	1.04	0.260
Thallium	ND	1.04	0.520
Vanadium	50.7	1.04	0.520
Zinc	157	2.08	1.04

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.02g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B12-2
Lab Samp ID: D145-04
Lab File ID: ID8D020038
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020029

Date Collected: 04/18/18 09:25
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:17
Dilution Factor: 1
Matrix: SOIL
% Moisture: 5.3
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.3	1.03
Arsenic	11.8	1.03	0.414
Barium	148	1.03	0.207
Beryllium	0.461J	1.03	0.207
Cadmium	1.30	1.03	0.103
Chromium	28.7	1.03	0.207
Cobalt	12.2	1.03	0.207
Copper	59.8	1.03	0.207
Lead	140	1.03	0.207
Molybdenum	1.44J	5.17	0.517
Nickel	24.2	1.03	0.207
Selenium	ND	1.03	0.517
Silver	ND	1.03	0.259
Thallium	ND	1.03	0.517
Vanadium	44.7	1.03	0.517
Zinc	148	2.07	1.03

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.02g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/18/18 09:34
Project : POLA-1500 I STREET	Date Received: 04/18/18
SDG NO. : 18D145	Date Extracted: 04/24/18 10:21
Sample ID: B12-5	Date Analyzed: 04/25/18 13:21
Lab Samp ID: D145-05	Dilution Factor: 1
Lab File ID: ID8D020039	Matrix: SOIL
Ext Btch ID: IPD032S	% Moisture: 12.5
Calib. Ref.: ID8D020029	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	1.09
Arsenic	7.12	1.09	0.435
Barium	182	1.09	0.218
Beryllium	0.505J	1.09	0.218
Cadmium	0.466J	1.09	0.109
Chromium	27.9	1.09	0.218
Cobalt	17.6	1.09	0.218
Copper	27.0	1.09	0.218
Lead	6.61	1.09	0.218
Molybdenum	ND	5.44	0.544
Nickel	24.0	1.09	0.218
Selenium	ND	1.09	0.544
Silver	ND	1.09	0.272
Thallium	ND	1.09	0.544
Vanadium	55.9	1.09	0.544
Zinc	92.7	2.18	1.09

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.05g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B12-10
Lab Samp ID: D145-06
Lab File ID: ID8D020040
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020029

Date Collected: 04/18/18 09:42
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:25
Dilution Factor: 1
Matrix: SOIL
% Moisture: 25.5
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	12.9	1.29
Arsenic	3.48	1.29	0.517
Barium	108	1.29	0.258
Beryllium	0.281J	1.29	0.258
Cadmium	0.208J	1.29	0.129
Chromium	17.2	1.29	0.258
Cobalt	10.7	1.29	0.258
Copper	12.7	1.29	0.258
Lead	3.25	1.29	0.258
Molybdenum	ND	6.46	0.646
Nickel	14.3	1.29	0.258
Selenium	ND	1.29	0.646
Silver	ND	1.29	0.323
Thallium	ND	1.29	0.646
Vanadium	34.9	1.29	0.646
Zinc	56.8	2.58	1.29

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.04g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B13-0.5
Lab Samp ID: D145-07
Lab File ID: ID8D020043
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020041

Date Collected: 04/18/18 08:39
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:36
Dilution Factor: 1
Matrix: SOIL
% Moisture: 5.0
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	1.83J	10.3	1.03
Arsenic	22.5	1.03	0.413
Barium	153	1.03	0.206
Beryllium	0.444J	1.03	0.206
Cadmium	0.774J	1.03	0.103
Chromium	27.1	1.03	0.206
Cobalt	12.2	1.03	0.206
Copper	35.8	1.03	0.206
Lead	50.0	1.03	0.206
Molybdenum	1.81J	5.16	0.516
Nickel	23.3	1.03	0.206
Selenium	ND	1.03	0.516
Silver	ND	1.03	0.258
Thallium	ND	1.03	0.516
Vanadium	40.7	1.03	0.516
Zinc	182	2.06	1.03

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.02g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B13-2
Lab Samp ID: D145-08
Lab File ID: ID8D020044
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020041

Date Collected: 04/18/18 08:50
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:39
Dilution Factor: 1
Matrix: SOIL
% Moisture: 8.1
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	3.01J	10.6	1.06
Arsenic	31.7	1.06	0.423
Barium	153	1.06	0.211
Beryllium	0.386J	1.06	0.211
Cadmium	0.614J	1.06	0.106
Chromium	28.0	1.06	0.211
Cobalt	11.2	1.06	0.211
Copper	32.2	1.06	0.211
Lead	53.9	1.06	0.211
Molybdenum	1.63J	5.28	0.528
Nickel	21.9	1.06	0.211
Selenium	ND	1.06	0.528
Silver	ND	1.06	0.264
Thallium	ND	1.06	0.528
Vanadium	38.8	1.06	0.528
Zinc	102	2.11	1.06

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.03g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/18/18 08:57
Project	: POLA-1500 I STREET	Date Received:	04/18/18
SDG NO.	: 18D145	Date Extracted:	04/24/18 10:21
Sample ID:	B13-5	Date Analyzed:	04/25/18 13:43
Lab Samp ID:	D145-09	Dilution Factor:	1
Lab File ID:	ID8D020045	Matrix:	SOIL
Ext Btch ID:	IPD032S	% Moisture:	6.9
Calib. Ref.:	ID8D020041	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.1	1.01
Arsenic	5.18	1.01	0.405
Barium	152	1.01	0.203
Beryllium	0.364J	1.01	0.203
Cadmium	0.477J	1.01	0.101
Chromium	22.9	1.01	0.203
Cobalt	14.6	1.01	0.203
Copper	19.4	1.01	0.203
Lead	7.32	1.01	0.203
Molybdenum	ND	5.06	0.506
Nickel	19.7	1.01	0.203
Selenium	ND	1.01	0.506
Silver	ND	1.01	0.253
Thallium	ND	1.01	0.506
Vanadium	44.1	1.01	0.506
Zinc	78.2	2.03	1.01

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.06g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B13-10
Lab Samp ID: D145-12
Lab File ID: ID8D020046
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020041

Date Collected: 04/18/18 09:06
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:47
Dilution Factor: 1
Matrix: SOIL
% Moisture: 13.7
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.3	1.13
Arsenic	86.5	1.13	0.450
Barium	70.1	1.13	0.225
Beryllium	0.316J	1.13	0.225
Cadmium	0.281J	1.13	0.113
Chromium	15.8	1.13	0.225
Cobalt	8.89	1.13	0.225
Copper	10.6	1.13	0.225
Lead	3.46	1.13	0.225
Molybdenum	0.762J	5.63	0.563
Nickel	12.0	1.13	0.225
Selenium	ND	1.13	0.563
Silver	ND	1.13	0.281
Thallium	ND	1.13	0.563
Vanadium	26.5	1.13	0.563
Zinc	30.2	2.25	1.13

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.03g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B11-0.5
Lab Samp ID: D145-13
Lab File ID: ID8D020047
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020041

Date Collected: 04/18/18 07:32
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:51
Dilution Factor: 1
Matrix: SOIL
% Moisture: 3.0
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	1.34J	9.92	0.992
Arsenic	12.5	0.992	0.397
Barium	190	0.992	0.198
Beryllium	0.530J	0.992	0.198
Cadmium	2.60	0.992	0.0992
Chromium	62.1	0.992	0.198
Cobalt	14.5	0.992	0.198
Copper	74.6	0.992	0.198
Lead	124	0.992	0.198
Molybdenum	8.08	4.96	0.496
Nickel	40.0	0.992	0.198
Selenium	ND	0.992	0.496
Silver	ND	0.992	0.248
Thallium	ND	0.992	0.496
Vanadium	50.8	0.992	0.496
Zinc	476	1.98	0.992

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.04g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B11-2
Lab Samp ID: D145-14
Lab File ID: ID8D020048
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020041

Date Collected: 04/18/18 07:36
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:54
Dilution Factor: 1
Matrix: SOIL
% Moisture: 5.8
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.1	1.01
Arsenic	14.7	1.01	0.404
Barium	142	1.01	0.202
Beryllium	0.429J	1.01	0.202
Cadmium	1.01J	1.01	0.101
Chromium	32.5	1.01	0.202
Cobalt	11.3	1.01	0.202
Copper	35.5	1.01	0.202
Lead	47.1	1.01	0.202
Molybdenum	1.55J	5.05	0.505
Nickel	23.5	1.01	0.202
Selenium	ND	1.01	0.505
Silver	ND	1.01	0.253
Thallium	ND	1.01	0.505
Vanadium	39.1	1.01	0.505
Zinc	154	2.02	1.01

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.05g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/18/18 08:05
Project	: POLA-1500 I STREET	Date Received:	04/18/18
SDG NO.	: 18D145	Date Extracted:	04/24/18 10:21
Sample ID:	B11-5	Date Analyzed:	04/25/18 13:58
Lab Samp ID:	D145-15	Dilution Factor:	1
Lab File ID:	ID8D020049	Matrix:	SOIL
Ext Btch ID:	IPD032S	% Moisture:	10.8
Calib. Ref.:	ID8D020041	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.6	1.06
Arsenic	7.70	1.06	0.423
Barium	173	1.06	0.211
Beryllium	0.451J	1.06	0.211
Cadmium	0.562J	1.06	0.106
Chromium	25.7	1.06	0.211
Cobalt	16.7	1.06	0.211
Copper	24.2	1.06	0.211
Lead	8.54	1.06	0.211
Molybdenum	0.722J	5.29	0.529
Nickel	23.2	1.06	0.211
Selenium	ND	1.06	0.529
Silver	ND	1.06	0.264
Thallium	ND	1.06	0.529
Vanadium	51.5	1.06	0.529
Zinc	94.1	2.11	1.06

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.06g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: MBLK1S
Lab Samp ID: IPD032SB
Lab File ID: ID8D020023
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020018

Date Collected: NA
Date Received: NA
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 12:22
Dilution Factor: 1
Matrix: SOIL
% Moisture: NA
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.0	1.00
Arsenic	ND	1.00	0.400
Barium	ND	1.00	0.200
Beryllium	ND	1.00	0.200
Cadmium	ND	1.00	0.100
Chromium	ND	1.00	0.200
Cobalt	ND	1.00	0.200
Copper	ND	1.00	0.200
Lead	ND	1.00	0.200
Molybdenum	ND	5.00	0.500
Nickel	ND	1.00	0.200
Selenium	ND	1.00	0.500
Silver	ND	1.00	0.250
Thallium	ND	1.00	0.500
Vanadium	ND	1.00	0.500
Zinc	ND	2.00	1.00

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPD032SB	IPD032SL	IPD032SC
LAB FILE ID	: ID8D020023	ID8D020024	ID8D020025
DATE PREPARED	: 04/24/18 10:21	04/24/18 10:21	04/24/18 10:21
DATE ANALYZED	: 04/25/18 12:22	04/25/18 12:26	04/25/18 12:30
PREP BATCH	: IPD032S	IPD032S	IPD032S
CALIBRATION REF	: ID8D020018	ID8D020018	ID8D020018

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Antimony	ND	250	234	94	250	231	92	1	80-120	20
Arsenic	ND	50	46.8	94	50	46.0	92	2	80-120	20
Barium	ND	50	47.8	96	50	47.3	95	1	80-120	20
Beryllium	ND	50	48.4	97	50	48.1	96	1	80-120	20
Cadmium	ND	50	45.9	92	50	45.3	91	1	80-120	20
Chromium	ND	50	48.5	97	50	47.8	96	1	80-120	20
Cobalt	ND	50	48.2	96	50	47.7	95	1	80-120	20
Copper	ND	50	45.9	92	50	45.7	91	0	80-120	20
Lead	ND	50	47.1	94	50	46.6	93	1	80-120	20
Molybdenum	ND	50	49.9	100	50	49.4	99	1	80-120	20
Nickel	ND	50	49.7	99	50	48.9	98	2	80-120	20
Selenium	ND	50	47.0	94	50	46.3	93	2	80-120	20
Silver	ND	50	41.6	83	50	41.3	83	1	80-120	20
Thallium	ND	50	43.8	88	50	43.4	87	1	80-120	20
Vanadium	ND	50	50.8	102	50	50.1	100	1	80-120	20
Zinc	ND	50	52.6	105	50	52.0	104	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE: 22.7
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B11-10	B11-10MS	B11-10MSD
LAB SAMPLE ID	: D145-01	D145-01M	D145-01S
LAB FILE ID	: ID8D020034	ID8D020031	ID8D020032
DATE PREPARED	: 04/24/18 10:21	04/24/18 10:21	04/24/18 10:21
DATE ANALYZED	: 04/25/18 13:02	04/25/18 12:51	04/25/18 12:55
PREP BATCH	: IPD032S	IPD032S	IPD032S
CALIBRATION REF	: ID8D020029	ID8D020029	ID8D020029

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Antimony	ND	314	269	85.7	302	252	83.4	7	75-125	20
Arsenic	5.01	62.8	64.8	95.2	60.5	63.8	97.2	2	75-125	20
Barium	182	62.8	210	44.6*	60.5	232	82.6	10	75-125	20
Beryllium	0.437J	62.8	59.7	94.4	60.5	58.7	96.3	2	75-125	20
Cadmium	0.519J	62.8	59.1	93.3	60.5	58.0	95.0	2	75-125	20
Chromium	25.4	62.8	80.9	88.4	60.5	81.3	92.4	0	75-125	20
Cobalt	16.8	62.8	75.6	93.6	60.5	76.0	97.9	1	75-125	20
Copper	21.7	62.8	77.5	88.9	60.5	78.1	93.2	1	75-125	20
Lead	4.79	62.8	64.1	94.4	60.5	63.2	96.5	1	75-125	20
Molybdenum	ND	62.8	63.1	100	60.5	60.1	99.3	5	75-125	20
Nickel	21.9	62.8	81.2	94.4	60.5	81.9	99.2	1	75-125	20
Selenium	ND	62.8	61.5	97.9	60.5	60.4	99.8	2	75-125	20
Silver	ND	62.8	56.5	90.0	60.5	55.7	92.1	1	75-125	20
Thallium	ND	62.8	53.7	85.5	60.5	52.4	86.6	2	75-125	20
Vanadium	50.9	62.8	105	86.1	60.5	107	92.7	2	75-125	20
Zinc	83.3	62.8	142	93.5	60.5	147	105	3	75-125	20

PSResult - Parent Sample Result
* Out of QC limit

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3050B/6010B

MATRIX	: SOIL	% MOISTURE: 22.7
DILUTION FACTOR	: 1	5
SAMPLE ID	: B11-10	B11-10
LAB SAMPLE ID	: D145-01	D145-01J
LAB FILE ID	: ID8D020034	ID8D020035
DATE PREPARED	: 04/24/18 10:21	04/24/18 10:21
DATE ANALYZED	: 04/25/18 13:02	04/25/18 13:06
PREP BATCH	: IPD032S	IPD032S
CALIBRATION REF	: ID8D020029	ID8D020029

ACCESSION:

PARAMETERS	Sample Result (mg/kg)	SD Result (mg/kg)	%Difference (%)	Max %D (%)
Antimony	ND	ND	0	10
Arsenic	5.01	4.40J	NA	10
Barium	182	187	3	10
Beryllium	0.437J	ND	NA	10
Cadmium	0.519J	ND	NA	10
Chromium	25.4	26.3	4	10
Cobalt	16.8	17.0	1	10
Copper	21.7	24.2	12*	10
Lead	4.79	4.47J	NA	10
Molybdenum	ND	ND	0	10
Nickel	21.9	21.9	0	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Thallium	ND	ND	0	10
Vanadium	50.9	52.6	3	10
Zinc	83.3	82.2	1	10

SD - Serial Dilution
* Out of QC limit

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3050B/6010B

MATRIX	: SOIL	% MOISTURE: 22.7
DILUTION FACTOR	: 1	1
SAMPLE ID	: B11-10	B11-10
LAB SAMPLE ID	: D145-01	D145-01A
LAB FILE ID	: ID8D020034	ID8D020033
DATE PREPARED	: 04/24/18 10:21	04/24/18 10:21
DATE ANALYZED	: 04/25/18 13:02	04/25/18 12:59
PREP BATCH	: IPD032S	IPD032S
CALIBRATION REF	: ID8D020029	ID8D020029

ACCESSION:

PARAMETERS	Sample Result (mg/kg)	Spike Amt (mg/kg)	AS Result (mg/kg)	AS Rec (%)	QC Limit (%)
Antimony	ND	305	317	104	75-125
Arsenic	5.01	61	72.7	111	75-125
Barium	182	61	255	120	75-125
Beryllium	0.437J	61	66.9	109	75-125
Cadmium	0.519J	61	65.9	107	75-125
Chromium	25.4	61	91.1	108	75-125
Cobalt	16.8	61	84.9	112	75-125
Copper	21.7	61	88.2	109	75-125
Lead	4.79	61	71.9	110	75-125
Molybdenum	ND	61	65.7	108	75-125
Nickel	21.9	61	92.0	115	75-125
Selenium	ND	61	68.4	112	75-125
Silver	ND	61	61.9	101	75-125
Thallium	ND	61	59.7	98	75-125
Vanadium	50.9	61	119	112	75-125
Zinc	83.3	61	160	126*	75-125

AS - Analytical Spike
* Out of QC limit

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 7470A
MERCURY BY COLD VAPOR

One (1) water sample was received on 04/18/18 to be analyzed for Mercury by Cold Vapor in accordance with Method 7470A and project specific requirements.

Holding Time
The sample was digested and analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. Mercury was not detected in HGD026WB. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. HGD026WL/HGD026WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : 47

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	HGD026WB	1	NA	04/26/1816:18	04/26/1813:00	M47D016011	M47D016	18HGD026W	Method Blank
LCS1W	HGD026WL	1	NA	04/26/1816:20	04/26/1813:00	M47D016012	M47D016	18HGD026W	Lab Control Sample (LCS)
LCD1W	HGD026WC	1	NA	04/26/1816:22	04/26/1813:00	M47D016013	M47D016	18HGD026W	LCS Duplicate
EB	D145-16	1	NA	04/26/1817:13	04/26/1813:00	M47D016037	M47D016	18HGD026W	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7470A
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET
Batch No. : 18D145

Matrix : WATER
InstrumentID : 47

CLIENT SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DILT'N FACTOR	MOIST (%)	RL (ug/L)	MDL (ug/L)	ANALYSIS DATETIME	PREPARATION DATETIME	DATA FILE ID	CAL REF	PREP BATCH	COLLECTION DATETIME	RECEIVED DATETIME
MBLK1W	HGD026WB	ND	1	NA	0.500	0.100	04/26/1816:18	04/26/1813:00	M47D016011	M47D016	18HGD026W	NA	NA
LCS1W	HGD026WL	2.46	1	NA	0.500	0.100	04/26/1816:20	04/26/1813:00	M47D016012	M47D016	18HGD026W	NA	NA
LCD1W	HGD026WC	2.47	1	NA	0.500	0.100	04/26/1816:22	04/26/1813:00	M47D016013	M47D016	18HGD026W	NA	NA
EB	D145-16	ND	1	NA	0.500	0.100	04/26/1817:13	04/26/1813:00	M47D016037	M47D016	18HGD026W	04/18/1808:15	04/18/18

Note: Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : METHOD 7470A

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: HGD026WB	HGD026WL	HGD026WC
LAB FILE ID	: M47D016011	M47D016012	M47D016013
DATE PREPARED	: 04/26/1813:00	04/26/1813:00	04/26/1813:00
DATE ANALYZED	: 04/26/1816:18	04/26/1816:20	04/26/1816:22
PREP BATCH	: 18HGD026W	18HGD026W	18HGD026W
CALIBRATION REF:	M47D016	M47D016	M47D016

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Mercury	ND	2.50	2.46	98.4	2.50	2.47	98.8	0	80-120	20

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 7471A
MERCURY BY COLD VAPOR

A total of thirteen (13) soil samples were received on 04/18/18 to be analyzed for Mercury by Cold Vapor in accordance with Method 7471A and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. Mercury was not detected in HGD028SB. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. HGD028SL/HGD028SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Mercury was within MS QC limits in 145-08M/S. Refer to Matrix QC summary form for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : 47

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	HGD028SB	1	NA	04/30/1819:30	04/30/1815:50	M47D017041	M47D017	18HGD028S	Method Blank
LCS1S	HGD028SL	1	NA	04/30/1819:32	04/30/1815:50	M47D017042	M47D017	18HGD028S	Lab Control Sample (LCS)
LCD1S	HGD028SC	1	NA	04/30/1819:35	04/30/1815:50	M47D017043	M47D017	18HGD028S	LCS Duplicate
B13-2	D145-08	1	8.1	04/30/1819:43	04/30/1815:50	M47D017047	M47D017	18HGD028S	Field Sample
B13-2MS	D145-08M	1	8.1	04/30/1819:47	04/30/1815:50	M47D017049	M47D017	18HGD028S	Matrix Spike Sample (MS)
B13-2MSD	D145-08S	1	8.1	04/30/1819:49	04/30/1815:50	M47D017050	M47D017	18HGD028S	MS Duplicate (MSD)
B11-10	D145-01	1	22.7	04/30/1819:51	04/30/1815:50	M47D017051	M47D017	18HGD028S	Field Sample
B11-15	D145-02	1	14.3	04/30/1819:53	04/30/1815:50	M47D017052	M47D017	18HGD028S	Field Sample
B12-0.5	D145-03	1	5.8	04/30/1819:55	04/30/1815:50	M47D017053	M47D017	18HGD028S	Field Sample
B12-2	D145-04	1	5.3	04/30/1819:57	04/30/1815:50	M47D017054	M47D017	18HGD028S	Field Sample
B12-5	D145-05	1	12.5	04/30/1819:59	04/30/1815:50	M47D017055	M47D017	18HGD028S	Field Sample
B12-10	D145-06	1	25.5	04/30/1820:01	04/30/1815:50	M47D017056	M47D017	18HGD028S	Field Sample
B13-0.5	D145-07	1	5.0	04/30/1820:07	04/30/1815:50	M47D017059	M47D017	18HGD028S	Field Sample
B13-5	D145-09	1	6.9	04/30/1820:09	04/30/1815:50	M47D017060	M47D017	18HGD028S	Field Sample
B13-10	D145-12	1	13.7	04/30/1820:11	04/30/1815:50	M47D017061	M47D017	18HGD028S	Field Sample
B11-5	D145-15	1	10.8	04/30/1820:18	04/30/1815:50	M47D017064	M47D017	18HGD028S	Field Sample
B11-0.5	D145-13I	50	3.0	05/01/1810:56	04/30/1815:50	M47E001011	M47E001	18HGD028S	Diluted Sample
B11-2	D145-14I	10	5.8	05/01/1810:58	04/30/1815:50	M47E001012	M47E001	18HGD028S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7471A
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET
Batch No. : 18D145

Matrix : SOIL
InstrumentID : 47

CLIENT SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/Kg)	DILT'N FACTOR	MOIST (%)	RL (mg/Kg)	MDL (mg/Kg)	ANALYSIS DATETIME	PREPARATION DATETIME	DATA FILE ID	CAL REF	PREP BATCH	COLLECTION DATETIME	RECEIVED DATETIME
MBLK1S	HGD028SB	ND	1	NA	0.100	0.0200	04/30/1819:30	04/30/1815:50	M47D017041	M47D017	18HGD028S	NA	NA
LCS1S	HGD028SL	0.417	1	NA	0.100	0.0200	04/30/1819:32	04/30/1815:50	M47D017042	M47D017	18HGD028S	NA	NA
LCD1S	HGD028SC	0.407	1	NA	0.100	0.0200	04/30/1819:35	04/30/1815:50	M47D017043	M47D017	18HGD028S	NA	NA
B13-2	D145-08	0.0423J	1	8.1	0.107	0.0214	04/30/1819:43	04/30/1815:50	M47D017047	M47D017	18HGD028S	04/18/1808:50	04/18/18
B13-2MS	D145-08M	0.506	1	8.1	0.107	0.0215	04/30/1819:47	04/30/1815:50	M47D017049	M47D017	18HGD028S	04/18/1808:50	04/18/18
B13-2MSD	D145-08S	0.530	1	8.1	0.106	0.0212	04/30/1819:49	04/30/1815:50	M47D017050	M47D017	18HGD028S	04/18/1808:50	04/18/18
B11-10	D145-01	ND	1	22.7	0.122	0.0245	04/30/1819:51	04/30/1815:50	M47D017051	M47D017	18HGD028S	04/18/1808:18	04/18/18
B11-15	D145-02	ND	1	14.3	0.116	0.0231	04/30/1819:53	04/30/1815:50	M47D017052	M47D017	18HGD028S	04/18/1808:34	04/18/18
B12-0.5	D145-03	0.0639J	1	5.8	0.103	0.0206	04/30/1819:55	04/30/1815:50	M47D017053	M47D017	18HGD028S	04/18/1809:20	04/18/18
B12-2	D145-04	0.0731J	1	5.3	0.0995	0.0199	04/30/1819:57	04/30/1815:50	M47D017054	M47D017	18HGD028S	04/18/1809:25	04/18/18
B12-5	D145-05	0.0313J	1	12.5	0.114	0.0227	04/30/1819:59	04/30/1815:50	M47D017055	M47D017	18HGD028S	04/18/1809:34	04/18/18
B12-10	D145-06	0.0421J	1	25.5	0.134	0.0267	04/30/1820:01	04/30/1815:50	M47D017056	M47D017	18HGD028S	04/18/1809:42	04/18/18
B13-0.5	D145-07	0.123	1	5.0	0.104	0.0208	04/30/1820:07	04/30/1815:50	M47D017059	M47D017	18HGD028S	04/18/1808:39	04/18/18
B13-5	D145-09	0.0362J	1	6.9	0.107	0.0214	04/30/1820:09	04/30/1815:50	M47D017060	M47D017	18HGD028S	04/18/1808:57	04/18/18
B13-10	D145-12	ND	1	13.7	0.113	0.0226	04/30/1820:11	04/30/1815:50	M47D017061	M47D017	18HGD028S	04/18/1809:06	04/18/18
B11-5	D145-15	0.0261J	1	10.8	0.109	0.0219	04/30/1820:18	04/30/1815:50	M47D017064	M47D017	18HGD028S	04/18/1808:05	04/18/18
B11-0.5	D145-13I	38.6	50	3.0	5.06	1.01	05/01/1810:56	04/30/1815:50	M47E001011	M47E001	18HGD028S	04/18/1807:32	04/18/18
B11-2	D145-14I	3.59	10	5.8	1.04	0.207	05/01/1810:58	04/30/1815:50	M47E001012	M47E001	18HGD028S	04/18/1807:36	04/18/18

Note: Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : METHOD 7471A

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: HGD028SB	HGD028SL	HGD028SC
LAB FILE ID	: M47D017041	M47D017042	M47D017043
DATE PREPARED	: 04/30/1815:50	04/30/1815:50	04/30/1815:50
DATE ANALYZED	: 04/30/1819:30	04/30/1819:32	04/30/1819:35
PREP BATCH	: 18HGD028S	18HGD028S	18HGD028S
CALIBRATION REF:	M47D017	M47D017	M47D017

ACCESSION:

PARAMETERS	MBResult (mg/Kg)	SpikeAmt (mg/Kg)	LCSResult (mg/Kg)	LCSRec (%)	SpikeAmt (mg/Kg)	LCDResult (mg/Kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Mercury	ND	0.417	0.417	100	0.417	0.407	97.6	2	80-120	20

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : METHOD 7471A

MATRIX	: SOIL		% MOISTURE:8.1
DILUTION FACTOR:	1	1	1
SAMPLE ID	: B13-2	B13-2MS	B13-2MSD
LAB SAMPLE ID	: D145-08	D145-08M	D145-08S
LAB FILE ID	: M47D017047	M47D017049	M47D017050
DATE PREPARED	: 04/30/1815:50	04/30/1815:50	04/30/1815:50
DATE ANALYZED	: 04/30/1819:43	04/30/1819:47	04/30/1819:49
PREP BATCH	: 18HGD028S	18HGD028S	18HGD028S
CALIBRATION REF:	M47D017	M47D017	M47D017

ACCESSION:

PARAMETERS	PSResult (mg/Kg)	SpikeAmt (mg/Kg)	MSResult (mg/Kg)	MSRec (%)	SpikeAmt (mg/Kg)	MSDResult (mg/Kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Mercury	0.0423J	0.448	0.506	104	0.442	0.530	110	5	75-125	20

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/18/18 07:32
Project	: POLA-1500 I STREET	Date Received:	04/18/18
SDG NO.	: 18D145A	Date Extracted:	05/24/18 10:18
Sample ID:	B11-0.5	Date Analyzed:	05/24/18 16:48
Lab Samp ID:	D145-13I	Dilution Factor:	5
Lab File ID:	ID8E019060	Matrix:	LEACHATE
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019055	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Chromium	0.389	0.250	0.0750
Copper	3.23	0.250	0.0750
Lead	7.79	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/18/18 07:32
Project	: POLA-1500 I STREET	Date Received:	04/18/18
SDG NO.	: 18D145A	Date Extracted:	05/24/18 10:18
Sample ID:	B11-0.5	Date Analyzed:	05/24/18 16:52
Lab Samp ID:	D145-13J	Dilution Factor:	25
Lab File ID:	ID8E019061	Matrix:	LEACHATE
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019055	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Chromium	ND	1.25	0.375
Copper	3.14	1.25	0.375
Lead	7.64	1.25	0.375

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D145A	Date Extracted:	05/24/18 10:18
Sample ID:	MBLK1W	Date Analyzed:	05/24/18 15:58
Lab Samp ID:	IPE028WB	Dilution Factor:	1
Lab File ID:	ID8E019047	Matrix:	WATER
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Chromium	ND	0.0100	0.00300
Copper	ND	0.0100	0.00300
Lead	ND	0.0100	0.00300

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 50ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D145A	Date Extracted:	05/24/18 10:18
Sample ID	: MBLK2W	Date Analyzed:	05/24/18 16:09
Lab Samp ID	: WTE003SB	Dilution Factor:	5
Lab File ID	: ID8E019050	Matrix:	LEACHATE
Ext Btch ID	: IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Chromium	ND	0.250	0.0750
Copper	ND	0.250	0.0750
Lead	ND	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

D145-13A.TXT
D145-13I.TXT
D145-13J.TXT
D145-13M.TXT
D145-13S.TXT
IPE028WB.TXT
IPE028WC.TXT
IPE028WL.TXT
WTE003SB.TXT

```
00  ID8E019014  ICV        |
00  ID8E019015  ICB        |
00  ID8E019016  ICSA1      |
00  ID8E019017  ICSAB1     |
00  ID8E019019  CCV1       |
00  ID8E019020  CCB1       |
00  ID8E019045  CCV4       |
00  ID8E019046  CCB4       |
00  ID8E019047  IPE028WB   |
00  ID8E019048  IPE028WL   |
00  ID8E019049  IPE028WC   |
00  ID8E019050  WTE003SB   |
00  ID8E019055  CCV5       |
00  ID8E019056  CCB5       |
00  ID8E019057  D145-13M   |
00  ID8E019058  D145-13S   |
00  ID8E019059  D145-13A   |
00  ID8E019060  D145-13I   |
00  ID8E019061  D145-13J   |
00  ID8E019062  CCV6       |
00  ID8E019063  CCB6       |
```

"1","IPE028WB","ID8E019047"
"2","IPE028WL","ID8E019048"
"3","IPE028WC","ID8E019049"
"4","WTE003SB","ID8E019050"
"5","D145-13M","ID8E019057"
"6","D145-13I","ID8E019060"
"7","D145-13S","ID8E019058"
"8","D145-13A","ID8E019059"
"9","D145-13J","ID8E019061"

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145A
METHOD : WET/3010A/6010B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: IPE028WB	IPE028WL	IPE028WC
LAB FILE ID	: ID8E019047	ID8E019048	ID8E019049
DATE PREPARED	: 05/24/18 10:18	05/24/18 10:18	05/24/18 10:18
DATE ANALYZED	: 05/24/18 15:58	05/24/18 16:02	05/24/18 16:06
PREP BATCH	: IPE028W	IPE028W	IPE028W
CALIBRATION REF	: ID8E019045	ID8E019045	ID8E019045

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Chromium	ND	0.5	0.482	96	0.5	0.487	97	1	80-120	20
Copper	ND	0.5	0.458	92	0.5	0.464	93	1	80-120	20
Lead	ND	0.5	0.460	92	0.5	0.465	93	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145A
METHOD : WET/3010A/6010B

MATRIX : LEACHATE % MOISTURE: NA
DILUTION FACTOR: 5 5 5
SAMPLE ID : B11-0.5 B11-0.5MS B11-0.5MSD
LAB SAMPLE ID : D145-13I D145-13M D145-13S
LAB FILE ID : ID8E019060 ID8E019057 ID8E019058
DATE PREPARED : 05/24/18 10:18 05/24/18 10:18 05/24/18 10:18
DATE ANALYZED : 05/24/18 16:48 05/24/18 16:36 05/24/18 16:40
PREP BATCH : IPE028W IPE028W IPE028W
CALIBRATION REF: ID8E019055 ID8E019055 ID8E019055

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Chromium	0.389	2.5	2.80	96.4	2.5	2.73	93.6	3	75-125	20
Copper	3.23	2.5	5.26	81.2	2.5	5.24	80.4	0	75-125	20
Lead	7.79	2.5	9.50	68.4*	2.5	9.32	61.2*	2	75-125	20

PSResult - Parent Sample Result
* Out of QC limit

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145A
METHOD : WET/3010A/6010B

MATRIX	: LEACHATE	% MOISTURE: NA
DILUTION FACTOR	: 5	5
SAMPLE ID	: B11-0.5	B11-0.5
LAB SAMPLE ID	: D145-13I	D145-13A
LAB FILE ID	: ID8E019060	ID8E019059
DATE PREPARED	: 05/24/18 10:18	05/24/18 10:18
DATE ANALYZED	: 05/24/18 16:48	05/24/18 16:44
PREP BATCH	: IPE028W	IPE028W
CALIBRATION REF	: ID8E019055	ID8E019055

ACCESSION:

PARAMETERS	Sample Result (mg/L)	Spike Amt (mg/L)	AS Result (mg/L)	AS Rec (%)	QC Limit (%)
Chromium	0.389	12.5	14.2	110	75-125
Copper	3.23	12.5	16.6	107	75-125
Lead	7.79	12.5	20.6	102	75-125

AS - Analytical Spike

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145A
METHOD : WET/3010A/6010B

MATRIX	: LEACHATE	% MOISTURE: NA
DILUTION FACTOR	: 5	25
SAMPLE ID	: B11-0.5	B11-0.5
LAB SAMPLE ID	: D145-13I	D145-13J
LAB FILE ID	: ID8E019060	ID8E019061
DATE PREPARED	: 05/24/18 10:18	05/24/18 10:18
DATE ANALYZED	: 05/24/18 16:48	05/24/18 16:52
PREP BATCH	: IPE028W	IPE028W
CALIBRATION REF	: ID8E019055	ID8E019055

ACCESSION:

PARAMETERS	Sample Result (mg/L)	SD Result (mg/L)	%Difference (%)	Max %D (%)
Chromium	0.389	ND	NA	10
Copper	3.23	3.14	3	10
Lead	7.79	7.64	2	10

SD - Serial Dilution

APPENDIX D

Jones Environmental Soil Gas Analytical Reports

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LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/23/2018
Client Address:	100 W Walnut St Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref.No:**	D-1460 451077
Attn:	Jim Goepel	**Date Sampled:** **Date Received:**	4/23/2018 4/23/2018
Project Name:	1517-1520 E I Street	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I Street Wilmington, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval:

Colby Wakeman
QA/QC Manager

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/23/2018
Client Address:	100 W Walnut St Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	D-1460 451077
Attn:	Jim Goepel	**Date Sampled:** **Date Received:**	4/23/2018 4/23/2018
Project:	1517-1520 E I Street	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I Street Wilmington, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**B2-5**	**SG7-5**	**B1-5**	**B1-5 REP**	**B8-5**		
Jones ID:	**D-1460-01**	**D-1460-02**	**D-1460-03**	**D-1460-04**	**D-1460-05**	**Practical Quantitation Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	**0.566**	ND	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**B2-5**	**SG7-5**	**B1-5**	**B1-5 REP**	**B8-5**		
Jones ID:	**D-1460-01**	**D-1460-02**	**D-1460-03**	**D-1460-04**	**D-1460-05**	**Practical Quantitation Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Freon 113	ND	ND	ND	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	µg/L
Isopropylbenzene	**0.407**	ND	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.100	µg/L
n-Propylbenzene	**0.455**	ND	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Tetrachloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Toluene	ND	ND	ND	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	ND	ND	ND	0.020	µg/L
o-Xylene	ND	ND	ND	ND	ND	0.020	µg/L
MTBE	ND	ND	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	1.000	µg/L
TIC:							
n-Pentane	ND	ND	ND	ND	ND	1.000	µg/L
n-Hexane	ND	ND	ND	ND	ND	1.000	µg/L
n-Heptane	ND	ND	ND	ND	ND	1.000	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	100%	103%	106%	105%	106%	60 - 140	
Toluene-d_8	79%	81%	84%	74%	83%	60 - 140	
4-Bromofluorobenzene	●	81%	84%	82%	82%	60 - 140	
	D1-042318-CHECKS	D1-042318-CHECKS	D1-042318-CHECKS	D1-042318-CHECKS	D1-042318-CHECKS		

ND= Not Detected

● = High Hydrocarbon concentration in this sample prevented adequate surrogate recovery

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/23/2018
Client Address:	100 W Walnut St Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	D-1460 451077
Attn:	Jim Goepel	**Date Sampled:**	4/23/2018
		Date Received:	4/23/2018
Project:	1517-1520 E I Street	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I Street Wilmington, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**B14-5**	**B10-5**	**B12-5**		
Jones ID:	**D-1460-06**	**D-1460-07**	**D-1460-08**	**Practical Quantitation Limit**	**Units**
Analytes:					
Benzene	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**B14-5**	**B10-5**	**B12-5**		
Jones ID:	**D-1460-06**	**D-1460-07**	**D-1460-08**	**Practical Quantitation Limit**	**Units**
Analytes:					
cis-1,3-Dichloropropene	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	ND	0.020	µg/L
Freon 113	ND	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.020	µg/L
Tetrachloroethene	ND	ND	ND	0.020	µg/L
Toluene	ND	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	ND	0.020	µg/L
o-Xylene	ND	ND	ND	0.020	µg/L
MTBE	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	1.000	µg/L
TIC:					
n-Pentane	ND	ND	ND	1.000	µg/L
n-Hexane	ND	ND	ND	1.000	µg/L
n-Heptane	ND	ND	ND	1.000	µg/L
Dilution Factor	1	1	1		
Surrogate Recoveries:				**QC Limits**	
Dibromofluoromethane	104%	107%	104%	60 - 140	
Toluene-d_8	83%	84%	83%	60 - 140	
4-Bromofluorobenzene	82%	83%	80%	60 - 140	
	D1-042318-CHECKS	D1-042318-CHECKS	D1-042318-CHECKS		

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	4/23/2018
Client Address:	100 W Walnut St Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	D-1460 451077
Attn:	Jim Goepel	**Date Sampled:**	4/23/2018
		Date Received:	4/23/2018
Project:	1517-1520 E I Street	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I Street Wilmington, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**	**SAMPLING BLANK**		
Jones ID:	**042318-D1MB1**	**042318-D1SB1**	**Practical Quantitation Limit**	**Units**
Analytes:				
Benzene	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	0.020	µg/L
Bromoform	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	0.020	µg/L
Chloroform	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
Jones ID:	**042318-D1MB1**	**042318-D1SB1**	**Practical Quantitation Limit**	**Units**
Analytes:				
cis-1,3-Dichloropropene	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	0.020	µg/L
Freon 113	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	0.020	µg/L
Naphthalene	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	0.020	µg/L
Styrene	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	0.020	µg/L
Tetrachloroethene	ND	ND	0.020	µg/L
Toluene	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	0.020	µg/L
o-Xylene	ND	ND	0.020	µg/L
MTBE	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	1.000	µg/L
TIC:				
n-Pentane	ND	ND	1.000	µg/L
n-Hexane	ND	ND	1.000	µg/L
n-Heptane	ND	ND	1.000	µg/L
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	104%	105%	60 - 140	
Toluene-d_8	78%	81%	60 - 140	
4-Bromofluorobenzene	80%	80%	60 - 140	
	D1-042318-CHECKS	D1-042318-CHECKS		

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	4/23/2018
Client Address:	100 W Walnut St Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	D-1460 451077
Attn:	Jim Goepel	**Date Sampled:**	4/23/2018
		Date Received:	4/23/2018
Project:	1517-1520 E I Street	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I Street Wilmington, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: D1-042318-D-1460

Jones ID:	**042318-D1LCS1**	**042318-D1LCSD1**			**042318-D1CCV1**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	191%	194%	1.8%	70 - 130	123%	80 - 120
1,1-Dichloroethene	121%	121%	0.3%	70 - 130	105%	80 - 120
Cis-1,2-Dichloroethene	128%	127%	0.4%	70 - 130	113%	80 - 120
1,1,1-Trichloroethane	109%	109%	0.4%	70 - 130	100%	80 - 120
Benzene	130%	131%	1.0%	70 - 130	101%	80 - 120
Trichloroethene	129%	128%	1.0%	70 - 130	115%	80 - 120
Toluene	115%	118%	2.5%	70 - 130	105%	80 - 120
Tetrachloroethene	116%	114%	1.4%	70 - 130	99%	80 - 120
Chlorobenzene	129%	129%	0.6%	70 - 130	118%	80 - 120
Ethylbenzene	129%	130%	0.3%	70 - 130	114%	80 - 120
1,2,4 Trimethylbenzene	122%	126%	3.3%	70 - 130	117%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	106%	108%		60 - 140	107%	60 - 140
Toluene-d_8	84%	83%		60 - 140	87%	60 - 140
4-Bromofluorobenzene	85%	84%		60 - 140	88%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client: PARSONS
Project Name: 1517-1520 E I STREET
Project Address: 1517 E I STREET, WILMINGTON, CA
Email:
Phone:
Report To: JIM GOEPEL
Sampler: ANNALISE O'TOOLE

Date: 4/23/2018
Client Project #: 451077

Purge Number: □ 1P □ 3P □ 7P □ 10P
Shut-In Test: (Y) / N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID _____

Turn Around Requested: □ Immediate Attention □ Rush 24 Hours □ Rush 48 Hours □ Rush 72 Hours □ Normal ☒ Mobile Lab

Tracer: ☒ n-pentane ☒ n-hexane ☒ n-heptane □ Helium □ 1,1-DFA □ _____

Reporting Limits Requested: ☒ Commercial □ Residential **Units:** ug/L

LAB USE ONLY
Jones Project # D-1460
Page 1 of 1
Sample Container: GAS TIGHT GLASS SYRINGE
If different than above, see Notes.

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	Analysis Requested: EPA 8260B					Magnehelic Vacuum (in/H_2O)	Number of Containers	Notes & Special Instructions
B2-5	3	1980	4/23/18	6:43	6:45	D-1460-01	~200	ANNALISE.1	TSS 118007	SG	X					<2	1	
SG7-5	3	1980	4/23/18	6:56	7:00	D-1460-02	~200	ANGELA.2	M100.106	SG	X					2	1	
B1-5	3	1980	4/23/18	7:13	7:17	D-1460-03	~200	ANNALISE.1	TSS 118007	SG	X					<2	1	
B1-5 REP	3	1980	4/23/18	7:29	7:32	D-1460-04	~200	ANNALISE.1	TSS 118007	SG	X					<2	1	
B8-5	3	1980	4/23/18	8:03	8:04	D-1460-05	~200	ANNALISE.1	TSS 118007	SG	X					2	1	
B14-5	3	1980	4/23/18	8:15	8:19	D-1460-06	~200	ANGELA.2	M100.106	SG	X					10	1	
B10-5	3	1980	4/23/18	8:31	8:36	D-1460-07	~200	ANNALISE.1	TSS 118007	SG	X					<2	1	
B12-5	3	1980	4/23/18	8:44	8:54	D-1460-08	~200	ANGELA.2	M100.106	SG	X					<2	1	

Relinquished By (Signature): [signature] **Printed Name:** Carrie Cortes
Company: Parsons **Date:** 4/23/18 **Time:** 0917

Received By (Signature): [signature] **Printed Name:** Annalise O'Toole
Company: Jones Environmental **Date:** 4-23-18 **Time:** 0917

Relinquished By (Signature): **Printed Name:**
Company: **Date:** **Time:**

Received By Laboratory (Signature): **Printed Name:**
Company: **Date:** **Time:**

8 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.

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562-646-1611
805-399-0060

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SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/24/2018
Client Address:	100 W. Walnut St Pasadena, CA 91124	**JEL Ref. No.:**	ST-12034
		Client Ref.No.:	451077
Attn:	Jim Goepel	**Date Sampled:**	4/23/2018
		Date Received:	4/23/2018
Project:	1517-1520 E I St.	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I St. Wilmington, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. ASTM D1946 – Methane

Approval:

Colby Wakeman
QA/QC Manager

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/24/2018
Client Address:	100 W. Walnut St Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	ST-12034 451077
Attn:	Jim Goepel	**Date Sampled:** **Date Received:**	4/23/2018 4/23/2018
Project:	1517-1520 E I St.	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I St. Wilmington, CA	**Physical State:**	Soil Gas

ASTM D1946 – Methane

Sample ID:	**B1-5**	**B1-5 REP**	**SG7-5**	**B2-5**	**B8-5**		
JEL ID:	**ST-12034-01**	**ST-12034-02**	**ST-12034-03**	**ST-12034-04**	**ST-12034-05**	**Practical Quantitation Limit**	**Units**
Methane (CH_4)	ND	ND	ND	**0.1**	ND	0.01	%
Dilution Factor	1	1	1	1	1		
	ASTM-042318_01	ASTM-042318_01	ASTM-042318_01	ASTM-042318_01	ASTM-042318_01		

ND = Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/24/2018
Client Address:	100 W. Walnut St Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	ST-12034 1/2/3135
Attn:	Jim Goepel	**Date Sampled:**	4/23/2018
		Date Received:	4/23/2018
Project:	1517-1520 E I St.	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I St. Wilmington, CA	**Physical State:**	Soil Gas

ASTM D1946 – Methane

Sample ID:	**B14-5**	**B10-5**	**B12-5**		
JEL ID:	**ST-12034-06**	**ST-12034-07**	**ST-12034-08**	**Practical Quantitation Limit**	**Units**
Methane (CH_4)	ND	ND	ND	0.01	%
Dilution Factor	1	1	1		
	ASTM-042318_01	ASTM-042318_01	ASTM-042318_01		

ND = Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/24/2018
Client Address:	100 W. Walnut St Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	ST-12034 1/2/3135
Attn:	Jim Goepel	**Date Sampled:**	4/23/2018
		Date Received:	4/23/2018
Project:	1517-1520 E I St.	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I St. Wilmington, CA	**Physical State:**	Soil Gas

ASTM D1946 – Methane

Sample ID:	**AMBIENT AIR**		
JEL ID:	**AA-042318_01**	**Practical Quantitation Limit**	**Units**
Methane (CH_4)	ND	0.01	%
Dilution Factor	1		
	ASTM-042318_01		

ND = Not Detected

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JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	4/24/2018
Client Address:	100 W. Walnut St Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	ST-12034 1/2/3135
Attn:	Jim Goepel	**Date Sampled:**	4/23/2018
		Date Received:	4/23/2018
Project:	1517-1520 E I St.	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I St. Wilmington, CA	**Physical State:**	Soil Gas

ASTM D1946 – Methane

GC#: ASTM-042318_01

JEL ID:	**LCS-042318_01**	**LCSD_042318_01**		
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)
Methane (CH_4)	100%	100%		60 - 140

LCS = Lab Control Sample
LCSD = Lab Control Sample Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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Fax (714) 449-9685
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Chain-of-Custody Record

Client Parsons
Date 4-23-18
Project Name 1517 - 1520 E I St.
Client Project # 451077
Project Address 1517 E I St.
Wilmington, CA
Email
Phone
Report To Jim Goepel
Sampler Annalise O.

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24 Hours
- ☐ Rush 48 Hours
- ☐ Rush 72 Hours
- ☐ Normal

Report Options
EDD ____
EDF* - 10% Surcharge____
*Global ID _____

LAB USE ONLY
Jones Project # ST-12034
Page 1 of 1

Sample Condition as Recieved:
Chilled ☐ yes ☐ no
Sealed ☐ yes ☐ no

Sample Container / Preservative Abbreviations

AS - Acetate Sleeve
SS - Stainless Steel Sleeve
BS - Brass Sleeve
G - Glass
AB - Amber Bottle
P - Plastic
SOBI - Sodium Bisulfate
MeOH - Methanol
HCl - Hydrochloric Acid
HNO3 - Nitric Acid
O - Other (See Notes)

Analysis Requested

Sample ID	Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Methane										Number of Containers	Notes & Special Instructions
B1-S	4/23	0737	ST-12034-01	-	tedlar	S	X										1	
B1-S REP	4/23	0739	ST-12034-02	-	tedlar	S	X										1	
SG7-S	4/23	0742	ST-12034-03	-	tedlar	S	X										1	
B2-S	4/23	0744	ST-12034-04	-	tedlar	S	X										1	
B8-S	4/23	0858	ST-12034-05	-	tedlar	S	X										1	
B14-S	4/23	0856	ST-12034-06	-	tedlar	S	X										1	
B10-S	4/23	0901	ST-12034-07	-	tedlar	S	X										1	
B12-S	4/23	0903	ST-12034-08	-	tedlar	S	X										1	

Relinquished By (Signature)	**Printed Name**	**Received By (Signature)**	**Printed Name**	8	Total Number of Containers
	Carrie Crozier		Annalise O'Toole		
Company	**Date** / **Time**	**Company**	**Date** / **Time**		
Parsons	4/23/18 0917	Jones Environmental	4-23-18 0917		
Relinquished By (Signature)	**Printed Name**	**Received By Laboratory (Signature)**	**Printed Name**		
	Annalise O'Toole		Madeline Worshin		
Company	**Date:** / **Time**	**Company**	**Date** / **Time**		
Jones Environmental	4-23-18 1011	Jones Env.	4/23/18 1015		

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

EXHIBIT H – ACCEPTABLE ENVIRONMENTALLY REGULATED MATERIAL

PLACEHOLDER. TO BE PROVIDED BY TENANT

EXHIBIT I – PORT ENVIRONMENTAL POLICIES

APPLICABLE ENVIRONMENTAL POLICIES, RULES AND DIRECTIVES OF CITY'S HARBOR DEPARTMENT

1. Port of Los Angeles Environmental Management Policy, as amended, or its successor policy. Environmental Management Policy | Environment | Port of Los Angeles | Port of Los Angeles
Available at: https://www.portoflosangeles.org/environment/environmental-management-policy

~~1.~~2. San Pedro Bay Ports Clean Air Action Plan, as amended, or its successor plan/document. Available at: http://www.cleanairactionplan.org.

~~2.~~3. Port of Los Angeles and Port of Long Beach Water Resources Action Plan or its successor plan/document. Available at https://www.portoflosangeles.org/environment/water-and-sediment-quality/water-resources-action-plan.

~~3.~~4. Port of Los Angeles Green Building Policy (2007), as amended, or its successor policy.

~~4.~~5. Port of Los Angeles Sustainable Construction Guidelines (2008), as amended, or its successor document.

~~5.~~6. Resolution No. 5317 – Policy for Operation of Hazardous Waste Transfer, Storage and Disposal (TSD) Facilities on Harbor Department Property and any amendments or successor resolution.

~~6.~~7. Tenant shall implement the Harbor Department's policies, known as Best Management Practices, in order to reduce the potential for pollutants to enter Harbor waters, as follows: Facility Operations. Tenant shall clean and maintain its facilities regularly using dry cleaning methods whenever possible and avoiding washing areas down. Tenant shall not allow sweepings or sediment to enter the storm drain or the Harbor. Tenant shall collect wash water for disposal or direct it to a clarifier. Tenant shall not encourage scavengers and shall not feed birds, feral cats, sea lions, or other scavengers. Tenant shall recycle whenever possible.

As to maintenance operations, Tenant shall use drip pans to prevent any drips or leaks from contacting the ground during maintenance and fueling operations. Tenant shall clean spills or drips immediately using dry methods and use spill cleanup kits to confine or contain spills. Tenant shall not hose down equipment or allow process water to enter the storm drain or the Harbor. Tenant shall place tarps beneath maintenance and repair operations to prevent materials such as paint chips and metals from contacting the ground.

As to material and waste handling and storage. Tenant shall train employees responsible for waste management on handling and disposal procedures. Tenant shall store all hazardous and universal waste in accordance with all federal, state, and local regulations. Tenant shall store all materials and waste inside and in secondary containment. If hazardous and universal waste is stored outside, it shall be stored only in designated, covered, and contained areas. Tenant shall store waste in covered, leak proof, labeled containers. Tenant shall keep lids closed on all outdoor containers including dumpsters. Tenant shall store all oily products (e.g. engines), batteries, tires, and metal off the ground and under cover when stored outdoors.

~~7.~~8. Tenant acknowledges that City has provided copies or made copies available via the Port's website, of the above policies to the Tenant.

[Note: This Exhibit I will also contain any additional Environmental Compliance Requirements resulting from appropriate environmental review (see more specifically Section 104.3.1.3 of this Agreement). A Soil Management Plan will be a requirement imposed either as a term and condition of this Agreement and contained in this Exhibit I and/or as a Permit condition [TBD prior to finalization of Agreement].

EXHIBIT J – CITY MAINTENANCE ITEMS

NONE

EXHIBIT K – INSURANCE

☐ No insurance required, only indemnification ☐ Amendment does not require change to existing contract's insurance requirements	
INSURANCE REQUIREMENTS	**LIMITS (Per Occurrence)**
■General Liability ☐ Deletion of railroad exclusion ☐ Terminal Operator's Liability ☐ Garage keepers Legal Liability ☐ Host Liquor Liability ☐ Explosion, collapse and underground hazards ■ Fire Legal Liability (Limits $500K per occ)	$5M
■Auto Liability (all autos) ☐ On Hook Coverage	$5M
■Workers' Compensation/Employer's Liability ☐ USL&H ■Waiver of Subrogation	STATUTORY
☐ Professional Liability ☐ Medical Malpractice ☐ Law Enforcement Legal Liability ☐ Technology Errors & Omissions (E&O)	$
☐ Railroad Protective Liability	$
☐ Ocean Marine Liability ☐ Protective & Indemnity ☐ Jones Act ☐ Hull & Machinery ☐ Ship Builders/Repairers Liability	$
■Property/All Risk Insurance	100% replacement value over $500K
■Environmental Impairment Liability	$1M
☐ Builder's Risk (Reference Specification for exclusions)	Value of the project
☐ Fine Arts Insurance	Actual cash value
☐ Aircraft Liability ☐ Passenger Liability for manned aircraft (Limit $1M per seat) ☐ Airport Liability	$

Date Reviewed: 7/5/2023

By: Chrizelle Makaena for:
Risk Manager

RM Staff:RM

EXHIBIT L – LOS ANGELES ADMINISTRATIVE CODE: AFFIRMATIVE ACTION
(These provisions are attached for Tenant reference only)

Sec. 10.8.4 Affirmative Action Program Provisions.

Every non-construction contract with or on behalf of the City of Los Angeles for which the consideration is $100,000 or more and every construction contract with or on behalf of the City of Los Angeles for which the consideration is $5,000 or more shall contain the following provisions which shall be designated as the **AFFIRMATIVE ACTION PROGRAM** provisions of such contract:

A. During the performance of a City contract, the contractor certifies and represents that the contractor and each subcontractor hereunder will adhere to an affirmative action program to ensure that in its employment practices, persons are employed and employees are treated equally and without regard to or because of race, religion, ancestry, national origin, sex, sexual orientation, age, disability, marital status or medical condition.

1. This provision applies to work or services performed or materials manufactured or assembled in the United States.

2. Nothing in this section shall require or prohibit the establishment of new classifications of employees in any given craft, work or service category.

3. The contractor shall post a copy of Paragraph A hereof in conspicuous places at its place of business available to employees and applicants for employment.

B. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to their race, religion, ancestry, national origin, sex, sexual orientation, age, disability, marital status or medical condition.

C. As part of the City's supplier registration process, and/or at the request of the awarding authority or the Office of Contract Compliance, the contractor shall certify on an electronic or hard copy form to be supplied, that the contractor has not discriminated in the performance of City contracts against any employee or applicant for employment on the basis or because of race, religion, ancestry, national origin, sex, sexual orientation, age, disability, marital status or medical condition.

D**.** The contractor shall permit access to and may be required to provide certified copies of all of its records pertaining to employment and to its employment practices by the awarding authority or the Office of Contract Compliance, for the purpose

of investigation to ascertain compliance with the Affirmative Action Program provisions of City contracts, and on their or either of their request to provide evidence that it has or will comply therewith.

E. The failure of any contractor to comply with the Affirmative Action Program provisions of City contracts may be deemed to be a material breach of contract. Such failure shall only be established upon a finding to that effect by the awarding authority, on the basis of its own investigation or that of the Board of Public Works, Office of Contract Compliance. No such finding shall be made except upon a full and fair hearing after notice and an opportunity to be heard has been given to the contractor.

F. Upon a finding duly made that the contractor has breached the Affirmative Action Program provisions of a City contract, the contract may be forthwith cancelled, terminated or suspended, in whole or in part, by the awarding authority, and all monies due or to become due hereunder may be forwarded to and retained by the City of Los Angeles. In addition thereto, such breach may be the basis for a determination by the awarding authority or the Board of Public Works that the said contractor is an irresponsible bidder or proposer pursuant to the provisions of Section 371 of the Los Angeles City Charter. In the event of such determination, such contractor shall be disqualified from being awarded a contract with the City of Los Angeles for a period of two years, or until he or she shall establish and carry out a program in conformance with the provisions hereof.

G. In the event of a finding by the Fair Employment and Housing Commission of the State of California, or the Board of Public Works of the City of Los Angeles, or any court of competent jurisdiction, that the contractor has been guilty of a willful violation of the California Fair Employment and Housing Act, or the Affirmative Action Program provisions of a City contract, there may be deducted from the amount payable to the contractor by the City of Los Angeles under the contract, a penalty of TEN DOLLARS ($10.00) for each person for each calendar day on which such person was discriminated against in violation of the provisions of a City contract.

H. Notwithstanding any other provisions of a City contract, the City of Los Angeles shall have any and all other remedies at law or in equity for any breach hereof.

I. The Public Works Board of Commissioners shall promulgate rules and regulations through the Office of Contract Compliance and provide to the awarding authorities electronic and hard copy forms for the implementation of the Affirmative Action Program provisions of City contracts, and rules and regulations and forms shall, so far as practicable, be similar to those adopted in applicable Federal Executive Orders.

No other rules, regulations or forms may be used by an awarding authority of the City to accomplish this contract compliance program.

J. Nothing contained in City contracts shall be construed in any manner so as to require or permit any act which is prohibited by law.

K. The contractor shall submit an Affirmative Action Plan, which shall meet the requirements of this chapter at the time it submits its bid or proposal or at the time it registers to do business with the City. The plan shall be subject to approval by the Office of Contract Compliance prior to award of the contract. The awarding authority may also require contractors and suppliers to take part in a pre-registration, pre-bid, pre-proposal, or pre-award conference in order to develop, improve or implement a qualifying Affirmative Action Plan. Affirmative Action Programs developed pursuant to this section shall be effective for a period of twelve months from the date of approval by the Office of Contract Compliance. In case of prior submission of a plan, the contractor may submit documentation that it has an Affirmative Action Plan approved by the Office of Contract Compliance within the previous twelve months. If the approval is 30 days or less from expiration, the contractor must submit a new Plan to the Office of Contract Compliance and that Plan must be approved before the contract is awarded.

(1) Every contract of $5,000 or more which may provide construction, demolition, renovation, conservation or major maintenance of any kind shall in addition comply with the requirements of Section 10.13 of the Los Angeles Administrative Code.

(2) A contractor may establish and adopt as its own Affirmative Action Plan, by affixing his or her signature thereto, an Affirmative Action Plan prepared and furnished by the Office of Contract Compliance, or it may prepare and submit its own Plan for approval.

L. The Office of Contract Compliance shall annually supply the awarding authorities of the City with a list of contractors and suppliers who have developed Affirmative Action Programs. For each contractor and supplier the Office of Contract Compliance shall state the date the approval expires. The Office of Contract Compliance shall not withdraw its approval for any Affirmative Action Plan or change the Affirmative Action Plan after the date of contract award for the entire contract term without the mutual agreement of the awarding authority and the contractor.

M. The Affirmative Action Plan required to be submitted hereunder and the pre-registration, pre-bid, pre-proposal or pre-award conference which may be required by the Board of Public Works, Office of Contract Compliance or the awarding authority

shall, without limitation as to the subject or nature of employment activity, be concerned with such employment practices as:

1. Apprenticeship where approved programs are functioning, and other on-the-job training for non-apprenticeable occupations;

2. Classroom preparation for the job when not apprenticeable;

3. Pre-apprenticeship education and preparation;

4. Upgrading training and opportunities;

5. Encouraging the use of contractors, subcontractors and suppliers of all racial and ethnic groups, provided, however, that any contract subject to this ordinance shall require the contractor, subcontractor or supplier to provide not less than the prevailing wage, working conditions and practices generally observed in private industries in the contractor's, subcontractor's or supplier's geographical area for such work;

6. The entry of qualified women, minority and all other journeymen into the industry; and

7. The provision of needed supplies or job conditions to permit persons with disabilities to be employed, and minimize the impact of any disability.

N. Any adjustments which may be made in the contractor's or supplier's work force to achieve the requirements of the City's Affirmative Action Contract Compliance Program in purchasing and construction shall be accomplished by either an increase in the size of the work force or replacement of those employees who leave the work force by reason of resignation, retirement or death and not by termination, layoff, demotion or change in grade.

O. Affirmative Action Agreements resulting from the proposed Affirmative Action Plan or the pre-registration, pre-bid, pre-proposal or pre-award conferences shall not be confidential and may be publicized by the contractor at his or her discretion. Approved Affirmative Action Agreements become the property of the City and may be used at the discretion of the City in its Contract Compliance Affirmative Action Program.

P. This ordinance shall not confer upon the City of Los Angeles or any Agency, Board or Commission thereof any power not otherwise provided by law to determine the legality of any existing collective bargaining agreement and shall have application only to discriminatory employment practices by contractors or suppliers engaged in the performance of City contracts.

EXHIBIT C – APPRAISER QUALIFICATIONS

Any appraisals that provide opinions of market value shall be performed by an appraiser whose business is located in Los Angeles or Orange Counties and hold a Certified General Appraiser classification within the State of California obtained through the qualification procedures set forth by the California Office of Real Estate Appraisers (OREA) and be a member in good standing with the Appraisal Institute and hold the designation of MAI. A copy of all licenses and certifications shall be submitted prior to commencement of work.

Any appraiser selected to perform an appraisal of Harbor Department related properties (total property, land and/or improvements) shall evidence have working knowledge of port related properties that is appropriate for the work being performed, as well as have geographic market knowledge of the Los Angeles County area, knowledge of the entire Southern California real estate market is preferred.

EXHIBIT D – LIMITATIONS ON USE

Load Limits. City warrants and represents that wharfs and paving on the Premises will support the load limits, if any, specified in Exhibit "B." Tenant shall allow no loading in excess of such limits without the prior written consent of the Harbor Department, which consent may be provided by a Harbor Engineer's Permit or a Heavy Lift Permit. Upon receipt of a notice from City that the load limits on Exhibit "B" have been exceeded, Tenant immediately shall take all appropriate steps to correct such condition and, irrespective of such notice, shall, as between City and Tenant, be solely responsible for any cost, expense, or damage resulting from exceeding the load limits.

Wilmington Truck Route. City and Tenant acknowledge that Tenant does not directly control the trucks serving the Premises. However, Tenant shall make its best efforts to notify truck drivers, truck brokers and trucking companies that trucks serving the Premises must confine their route to the designated Wilmington Truck Route ("Wilmington Truck Route") as depicted on the map attached hereto as Exhibit "E." The Wilmington Truck Route may be modified from time to time at the sole and absolute discretion of the Executive Director. The Harbor Department shall provide Tenant with notice of any modifications to the Wilmington Truck Route.

Pipelines. Tenant shall maintain on the Premises as-built drawings that identify the precise position of any pipelines, utilities or improvements of any type Tenant places on the Premises, whether placed above or below ground, if any. Upon twenty-four (24) hours' written notice by the Executive Director, Tenant shall undertake at its sole cost and expense whatever measures are reasonably necessary, including subsurface exploration for any pipeline or any other substructure under Tenant's control or servicing Tenant's operation within the Premises granted herein, to precisely locate the position of such items if City considers such as-built drawings insufficient to locate such items. Tenant agrees any work necessary to locate such items or any damage that may result from the location being incorrectly described, whether incurred by Tenant or City, shall be borne exclusively by Tenant. Exploration and preparation of all documentation recording the location of lines or structures shall be completed within the time specified in said notice. The subsurface exploration shall verify the vertical as well as horizontal location of all pipelines and substructures. Documentation reflecting the results of said exploration shall be filed with the Harbor Engineer.

As to locating and location, if Tenant neglects, fails or refuses within the time specified in said notice to begin or fails to prosecute diligently to complete the work of locating any pipeline or any other substructure under Tenant's control or servicing Tenant's operation within the Premises , City shall have the right to enter onto the Premises and perform the work designated in the notice. All subsurface exploration required by the provisions contained herein whether

performed by Tenant or City shall be performed at Tenant's expense. In addition, Tenant agrees to bear the cost of any and all damage of whatever nature caused by any act, omission, or negligence of City and any and all of its boards, officers, agents, consultants, and employees in the performance of said subsurface exploration as required by this provision. Work performed by City or City's contractors under this provision does not alter Tenant's obligation to maintain the Premises in a safe condition, both during and after completion of the work.

After installation, and in any event for the duration of this Agreement, Tenant shall comply with pipeline testing and inspection requirements, as well as the laws and regulations under CFR Title 49, Subtitle B, Chapter 1 Subchapter D, the Pipeline Safety Act, the California Public Utilities Code, the California Public Utilities Commission regulations for pipelines, the California State Lands Commission Marine Facilities Division ("CSLC/MFD"), the State of California Bureau of Conservation/Division of Oil, Gas, and Geothermal Resources ("DOGGR"), and any other federal, state, or local agency not mentioned above, and as required by the California State Fire Marshall ("CSFM") under the Pipeline Safety Act. The City reserves the right to request tests for facilities not under the direct authority of the CSFM, the CSLC/MFD, the DOGGR, the California Public Utilities Commission, and the Federal Office of Pipeline Safety ("FOPS").

As to pipeline tests or inspections, Tenant shall comply with the following:

(a) Within thirty (30) days from the Effective Date of this Agreement, and at least annually thereafter, Tenant shall provide the Director of Real Estate of the Harbor Department and the Director of Environmental Management of the Harbor Department with a master schedule showing dates for pipeline testing and inspection(s) in accordance with the requirements referenced above. The master schedule shall include an itemized list with corresponding line item reference numbers for each pipeline covered under this Agreement, corresponding required test(s) or inspection(s), date(s) of test(s) or inspection(s), method(s) of test(s) or inspection(s), applicable agency, the frequency of required test(s) or inspection(s), and the California State Fire Marshall Line Number and the California State Fire Marshall Test ID Number, if applicable. If Tenant’s existing pipelines are modified, or new pipelines are added to Tenant’s Premises, Tenant shall follow the authorization procedure required by Applicable Law, and provide an updated master schedule with any addition or subtraction of pipelines. .

(b) If Tenant’s pipeline test(s) or inspection(s) are approved by the applicable agency requiring or overseeing the test(s) or inspections(s), Tenant shall confirm in writing to the Harbor Department approval of the test(s) or inspections(s) and/or submit documentation including master schedule reference number for pipeline(s) being reported on, date(s) of test(s) or inspection(s), method(s) of test(s) or inspection(s) and a general non-technical summary of results.

(c) Tenant shall submit a summary of its certified test or inspection approval results to the Director of Environmental Management of the Harbor Department within thirty (30) days after they have been approved by the agencies which required the pipeline testing or inspection(s), and the records of such test(s) shall be retained by Tenant for as long as is required by Applicable Law, but in any event not less than three (3) years. Records of all tests will be made available for inspection by the Executive Director.

(d) If Tenant's pipeline test(s) or inspection(s) are disapproved, and/or there are irregularities with Tenant's pipeline test(s) or inspection(s), indicating a leak or other operational deficiency, Tenant shall notify the Director of Environmental Management of the Harbor Department within three (3) days of disapproval and/or receipt of test(s) or inspection(s) results with a non-technical summary of the results including the circumstances that resulted in the disapproval or test(s)/inspection(s) irregularities as well as all test documentation produced and a description and schedule for implementation of corrective action as directed by the applicable agency requiring or overseeing the test(s) or inspection(s).

As to relocation of pipelines, at any time during the term of this Agreement, the Board shall have the right to make any change in the route or location of any pipeline constructed or maintained on the Premises by Tenant pursuant to the authority of this Agreement as may be required or made necessary for the progress of harbor development or the performance of any work or improvement within the jurisdiction of the Board. If the Board shall determine that any such change or relocation is necessary, the Board shall give at least ninety (90) days' written notice to Tenant and the work of removal and relocation shall be completed within such time after said written notice as shall be fixed in said notice. The cost of any such removal and relocation shall be borne by Tenant. If Tenant neglects, fails or refuses within the time specified in said notice to begin or fails to prosecute diligently to complete the work of relocating the pipelines, the Harbor Department shall provide written notice to Tenant which shall specify such neglect, failure or refusal. Upon delivery of the notice specifying Tenant's neglect, failure or refusal, Tenant shall have such time as is reasonably necessary to cure such neglect, failure or refusal so long as Tenant commences the cure within a thirty (30) day period and thereafter diligently prosecutes such cure to completion. If Tenant fails to cure in a timely and diligent manner, City shall have the right to enter the Premises and relocate the pipelines. Tenant shall be solely responsible for City Costs associated with the right set forth herein, and shall pay City, as Additional Rent, within thirty (30) days of receiving an invoice for payment from City. Tenant hereby waives the provisions of the Water Resources Development Act of 1980, and as amended, pertaining to cost allocation for pipeline relocation.

EXHIBIT E – WILMINGTON TRUCK ROUTE

TRUCKS ENTERING AND LEAVING THE PORT MUST USE THE ROUTE SHOWN BELOW.
CAMIÓNES ENTRANDO Y SALIENDO EL PORTO DEVEN DE USAR LA RUTA INDICADO ABAJO.

EXHIBIT F – SPECIFICALLY IDENTIFIED APPLICABLE LAWS

Local Job Participation; Living Wage. In furtherance of the policies of the Board and the Council, Tenant shall strive to achieve the goals of local job participation in the use and operation of the Premises and the Living Wage Ordinance of the City of Los Angeles as defined in the City of Los Angeles Administrative Code Section 10.37. The Tenant is obligated to make that determination, and shall be bound by and comply with provisions of the Applicable Law, including, but not limited to, the California Labor Code.

Business Tax Registration Certification.

(a) Tenant. Tenant represents that it has registered its business with the Office of Finance of the City of Los Angeles and has obtained and presently holds from that Office a Business Tax Registration Certificate, or a Business Tax Exemption Number, required by City's Business Tax Ordinance (Article I, Chapter 2, Sections 21.00, *et seq.,* of City's Municipal Code, or its successor). Tenant shall maintain, or obtain as necessary, all such Certificates required of it under said Ordinance and shall not allow any such Certificate to be revoked or suspended during the Term of this Agreement. See https://business.lacity.org/start/BTRC.

(b) Contractors. Tenant represents that it shall require its contractors and subcontractors to register their business with the Office of Finance of the City of Los Angeles and to obtained and hold from that Office a Business Tax Registration Certificate, or a Business Tax Exemption Number, required by City's Business Tax Ordinance (Article 1, Chapter 2, Sections 21.00, *et seq.* of City's Municipal Code, or its successor) for all work done on the Premises.

(c) Subtenants. Tenant represents that it shall include in all its subleases the requirement that the subtenant register its business with the Office of Finance of the City of Los Angeles and obtain and hold from that Office a Business Tax Registration Certificate, or a Business Tax Exemption Number, required by City's Business Tax Ordinance (Article 1, Chapter 2, Sections 21.00, *et seq.* of City's Municipal Code, or its successor) and further require that the subtenant maintain, or obtain as necessary, all such Certificates required of it under said Ordinance and not allow any such Certificate to be revoked or suspended during the Term of its sublease.

Nondiscrimination and Affirmative Action. Tenant agrees not to discriminate in its employment practices against any employee or applicant for employment because of the employee's or applicant's race, religion, ancestry, national origin, sex, sexual orientation, age, disability, marital

status, domestic partner status or medical condition. All assignments, subleases and transfers of interest in this Agreement under or pursuant to this Agreement shall contain this provision. The provisions of Section 10.8.4 of the Los Angeles Administrative Code as set forth in the attached Exhibit "L" are incorporated herein and made a part hereof.

Service Contractor Worker Retention Policy and Living Wage Policy Requirements. The Board adopted Resolution No. 5771 on January 3, 1999, agreeing to adopt the provisions of Los Angeles City Ordinance No. 171004 relating to Service Contractor Worker Retention ("SCWR"), set forth at Section 10.36, *et seq.* of the Los Angeles Administrative Code, as the policy of City's Harbor Department. Further, Charter Section 378 requires compliance with the City's Living Wage requirements as set forth by ordinance, set forth at Section 10.37, *et seq.* of the Los Angeles Administrative Code. Tenant shall comply with the policy wherever applicable. Violation of this provision, where applicable, shall entitle the City to terminate this Agreement and otherwise pursue legal remedies that may be available. See https://bca.lacity.org/service-contract-worker-retention-ordinance-scwro.

Wage and Earnings Assignment Orders/Notices of Assignments. Tenant is obligated to fully comply with all applicable state and federal employment reporting requirements for the Tenant and/or its employees. Tenant shall certify that the principal owner(s) are in compliance with any Wage and Earnings Assignment Orders/Notices of Assignments applicable to them personally. Tenant shall fully comply with all lawfully served Wage and Earnings Assignment Orders and Notices of Assignments in accordance with California Family Code Section 5230, *et seq.* Tenant shall maintain such compliance throughout the term of this Agreement.

Equal Benefits Policy. The Board adopted Resolution No. 6328 on January 12, 2005, agreeing to adopt the provisions of Los Angeles City Ordinance No. 172,908, as amended, relating to Equal Benefits, set forth at Section 10.8.2.1, *et seq.* of the Los Angeles Administrative Code, as a policy of City's Harbor Department. Tenant shall comply with the policy wherever applicable. Violation of the policy shall entitle the City to terminate any Agreement with Tenant and pursue any and all other legal remedies that may be available. See https://bca.lacity.org/equal-benefits-ordinance-ebo.

Minority, Women, and Oher Business Enterprise (MBE/WBE/OBE) Outreach Program. It is the policy of the City to provide minority business enterprises ("MBEs"), women's business enterprises ("WBEs"), and all other business enterprises ("OBEs") an equal opportunity to participate in the performance of all City contracts in all areas where such contracts afford such participation opportunities. Tenant shall assist City in implementing this policy and shall use its best efforts to afford the opportunity for MBEs, WBEs, and OBEs to achieve participation in

subcontracts where such participation opportunities present themselves and attempt to ensure that all available business enterprises, including MBEs, WBEs, and OBEs, have an equal opportunity to compete for, and participate in, any such participation opportunity which might be presented under this Agreement.

Applicable Law and Third-Party approval or Consent. The City shall have no liability to the Tenant or any third party if this transaction does not comply with any Applicable Laws or any third-party compliance or approval process. The city is not liable or responsible to the Tenant or any third party for any damages to the Tenant or the third party if this Agreement is terminated due to a violation of Applicable Laws or any third party compliance or approval process.

EXHIBIT I – PORT ENVIRONMENTAL POLICIES

APPLICABLE ENVIRONMENTAL POLICIES, RULES AND DIRECTIVES OF CITY'S HARBOR DEPARTMENT

1. Port of Los Angeles Environmental Management Policy, as amended, or its successor policy. Environmental Management Policy | Environment | Port of Los Angeles | Port of Los Angeles
   Available at: https://www.portoflosangeles.org/environment/environmental-management-policy

2. San Pedro Bay Ports Clean Air Action Plan, as amended, or its successor plan/document. Available at: http://www.cleanairactionplan.org.

3. Port of Los Angeles and Port of Long Beach Water Resources Action Plan or its successor plan/document. Available at https://www.portoflosangeles.org/environment/water-and-sediment-quality/water-resources-action-plan.

4. Port of Los Angeles Green Building Policy (2007), as amended, or its successor policy.

5. Port of Los Angeles Sustainable Construction Guidelines (2008), as amended, or its successor document.

6. Resolution No. 5317 – Policy for Operation of Hazardous Waste Transfer, Storage and Disposal (TSD) Facilities on Harbor Department Property and any amendments or successor resolution.

7. Tenant shall implement the Harbor Department's policies, known as Best Management Practices, in order to reduce the potential for pollutants to enter Harbor waters, as follows: Facility Operations. Tenant shall clean and maintain its facilities regularly using dry cleaning methods whenever possible and avoiding washing areas down. Tenant shall not allow sweepings or sediment to enter the storm drain or the Harbor. Tenant shall collect wash water for disposal or direct it to a clarifier. Tenant shall not encourage scavengers and shall not feed birds, feral cats, sea lions, or other scavengers. Tenant shall recycle whenever possible.

   As to maintenance operations, Tenant shall use drip pans to prevent any drips or leaks from contacting the ground during maintenance and fueling operations. Tenant shall

clean spills or drips immediately using dry methods and use spill cleanup kits to confine or contain spills. Tenant shall not hose down equipment or allow process water to enter the storm drain or the Harbor. Tenant shall place tarps beneath maintenance and repair operations to prevent materials such as paint chips and metals from contacting the ground.

As to material and waste handling and storage. Tenant shall train employees responsible for waste management on handling and disposal procedures. Tenant shall store all hazardous and universal waste in accordance with all federal, state, and local regulations. Tenant shall store all materials and waste inside and in secondary containment. If hazardous and universal waste is stored outside, it shall be stored only in designated, covered, and contained areas. Tenant shall store waste in covered, leak proof, labeled containers. Tenant shall keep lids closed on all outdoor containers including dumpsters. Tenant shall store all oily products (e.g. engines), batteries, tires, and metal off the ground and under cover when stored outdoors.

8. Tenant acknowledges that City has provided copies or made copies available via the Port's website, of the above policies to the Tenant.

[Note: This Exhibit I will also contain any additional Environmental Compliance Requirements resulting from appropriate environmental review (see more specifically Section 104.3.1.3 of this Agreement). A Soil Management Plan will be a requirement imposed either as a term and condition of this Agreement and contained in this Exhibit I and/or as a Permit condition [TBD prior to finalization of Agreement].

EXHIBIT L – LOS ANGELES ADMINISTRATIVE CODE: AFFIRMATIVE ACTION

(These provisions are attached for Tenant reference only)

Sec. 10.8.4 Affirmative Action Program Provisions.

Every non-construction contract with or on behalf of the City of Los Angeles for which the consideration is $100,000 or more and every construction contract with or on behalf of the City of Los Angeles for which the consideration is $5,000 or more shall contain the following provisions which shall be designated as the **AFFIRMATIVE ACTION PROGRAM** provisions of such contract:

A. During the performance of a City contract, the contractor certifies and represents that the contractor and each subcontractor hereunder will adhere to an affirmative action program to ensure that in its employment practices, persons are employed and employees are treated equally and without regard to or because of race, religion, ancestry, national origin, sex, sexual orientation, age, disability, marital status or medical condition.

1. This provision applies to work or services performed or materials manufactured or assembled in the United States.

2. Nothing in this section shall require or prohibit the establishment of new classifications of employees in any given craft, work or service category.

3. The contractor shall post a copy of Paragraph A hereof in conspicuous places at its place of business available to employees and applicants for employment.

B. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to their race, religion, ancestry, national origin, sex, sexual orientation, age, disability, marital status or medical condition.

C. As part of the City's supplier registration process, and/or at the request of the awarding authority or the Office of Contract Compliance, the contractor shall certify on an electronic or hard copy form to be supplied, that the contractor has not discriminated in the performance of City contracts against any employee or applicant for employment on the basis or because of race, religion, ancestry, national origin, sex, sexual orientation, age, disability, marital status or medical condition.

D**.** The contractor shall permit access to and may be required to provide certified copies of all of its records pertaining to employment and to its employment practices by the awarding authority or the Office of Contract Compliance, for the purpose

of investigation to ascertain compliance with the Affirmative Action Program provisions of City contracts, and on their or either of their request to provide evidence that it has or will comply therewith.

E. The failure of any contractor to comply with the Affirmative Action Program provisions of City contracts may be deemed to be a material breach of contract. Such failure shall only be established upon a finding to that effect by the awarding authority, on the basis of its own investigation or that of the Board of Public Works, Office of Contract Compliance. No such finding shall be made except upon a full and fair hearing after notice and an opportunity to be heard has been given to the contractor.

F. Upon a finding duly made that the contractor has breached the Affirmative Action Program provisions of a City contract, the contract may be forthwith cancelled, terminated or suspended, in whole or in part, by the awarding authority, and all monies due or to become due hereunder may be forwarded to and retained by the City of Los Angeles. In addition thereto, such breach may be the basis for a determination by the awarding authority or the Board of Public Works that the said contractor is an irresponsible bidder or proposer pursuant to the provisions of Section 371 of the Los Angeles City Charter. In the event of such determination, such contractor shall be disqualified from being awarded a contract with the City of Los Angeles for a period of two years, or until he or she shall establish and carry out a program in conformance with the provisions hereof.

G. In the event of a finding by the Fair Employment and Housing Commission of the State of California, or the Board of Public Works of the City of Los Angeles, or any court of competent jurisdiction, that the contractor has been guilty of a willful violation of the California Fair Employment and Housing Act, or the Affirmative Action Program provisions of a City contract, there may be deducted from the amount payable to the contractor by the City of Los Angeles under the contract, a penalty of TEN DOLLARS ($10.00) for each person for each calendar day on which such person was discriminated against in violation of the provisions of a City contract.

H. Notwithstanding any other provisions of a City contract, the City of Los Angeles shall have any and all other remedies at law or in equity for any breach hereof.

I. The Public Works Board of Commissioners shall promulgate rules and regulations through the Office of Contract Compliance and provide to the awarding authorities electronic and hard copy forms for the implementation of the Affirmative Action Program provisions of City contracts, and rules and regulations and forms shall, so far as practicable, be similar to those adopted in applicable Federal Executive Orders.

No other rules, regulations or forms may be used by an awarding authority of the City to accomplish this contract compliance program.

J. Nothing contained in City contracts shall be construed in any manner so as to require or permit any act which is prohibited by law.

K. The contractor shall submit an Affirmative Action Plan, which shall meet the requirements of this chapter at the time it submits its bid or proposal or at the time it registers to do business with the City. The plan shall be subject to approval by the Office of Contract Compliance prior to award of the contract. The awarding authority may also require contractors and suppliers to take part in a pre-registration, pre-bid, pre-proposal, or pre-award conference in order to develop, improve or implement a qualifying Affirmative Action Plan. Affirmative Action Programs developed pursuant to this section shall be effective for a period of twelve months from the date of approval by the Office of Contract Compliance. In case of prior submission of a plan, the contractor may submit documentation that it has an Affirmative Action Plan approved by the Office of Contract Compliance within the previous twelve months. If the approval is 30 days or less from expiration, the contractor must submit a new Plan to the Office of Contract Compliance and that Plan must be approved before the contract is awarded.

(1) Every contract of $5,000 or more which may provide construction, demolition, renovation, conservation or major maintenance of any kind shall in addition comply with the requirements of Section 10.13 of the Los Angeles Administrative Code.

(2) A contractor may establish and adopt as its own Affirmative Action Plan, by affixing his or her signature thereto, an Affirmative Action Plan prepared and furnished by the Office of Contract Compliance, or it may prepare and submit its own Plan for approval.

L. The Office of Contract Compliance shall annually supply the awarding authorities of the City with a list of contractors and suppliers who have developed Affirmative Action Programs. For each contractor and supplier the Office of Contract Compliance shall state the date the approval expires. The Office of Contract Compliance shall not withdraw its approval for any Affirmative Action Plan or change the Affirmative Action Plan after the date of contract award for the entire contract term without the mutual agreement of the awarding authority and the contractor.

M. The Affirmative Action Plan required to be submitted hereunder and the pre-registration, pre-bid, pre-proposal or pre-award conference which may be required by the Board of Public Works, Office of Contract Compliance or the awarding authority

shall, without limitation as to the subject or nature of employment activity, be concerned with such employment practices as:

1. Apprenticeship where approved programs are functioning, and other on-the-job training for non-apprenticeable occupations;

2. Classroom preparation for the job when not apprenticeable;

3. Pre-apprenticeship education and preparation;

4. Upgrading training and opportunities;

5. Encouraging the use of contractors, subcontractors and suppliers of all racial and ethnic groups, provided, however, that any contract subject to this ordinance shall require the contractor, subcontractor or supplier to provide not less than the prevailing wage, working conditions and practices generally observed in private industries in the contractor's, subcontractor's or supplier's geographical area for such work;

6. The entry of qualified women, minority and all other journeymen into the industry; and

7. The provision of needed supplies or job conditions to permit persons with disabilities to be employed, and minimize the impact of any disability.

N. Any adjustments which may be made in the contractor's or supplier's work force to achieve the requirements of the City's Affirmative Action Contract Compliance Program in purchasing and construction shall be accomplished by either an increase in the size of the work force or replacement of those employees who leave the work force by reason of resignation, retirement or death and not by termination, layoff, demotion or change in grade.

O. Affirmative Action Agreements resulting from the proposed Affirmative Action Plan or the pre-registration, pre-bid, pre-proposal or pre-award conferences shall not be confidential and may be publicized by the contractor at his or her discretion. Approved Affirmative Action Agreements become the property of the City and may be used at the discretion of the City in its Contract Compliance Affirmative Action Program.

P. This ordinance shall not confer upon the City of Los Angeles or any Agency, Board or Commission thereof any power not otherwise provided by law to determine the legality of any existing collective bargaining agreement and shall have application only to discriminatory employment practices by contractors or suppliers engaged in the performance of City contracts.

Q. All contractors subject to the provisions of this section shall include a like provision in all subcontracts awarded for work to be performed under the contract with the City and shall impose the same obligations, including but not limited to filing and reporting obligations, on the subcontractors as are applicable to the contractor. Failure of the contractor to comply with this requirement or to obtain the compliance of its subcontractors with all such obligations shall subject the contractor to the imposition of any and all sanctions allowed by law, including but not limited to termination of the contractor's contract with the City.