FINAL REPORT
HARBOR TOXICS TOTAL MAXIMUM DAILY LOAD
WATERSHED LOADING ESTIMATION—STORM WATER MONITORING

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IMPORTANT NOTICE

EXECUTIVE SUMMARY

In 2011, the Final Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters Toxic Pollutants Total Maximum Daily Load (TMDL) (Harbor Toxics TMDL) was adopted by the Los Angeles Regional Water Quality Control Board (LARWQCB) and the United States Environmental Protection Agency (USEPA) (LARWQCB and USEPA, 2011). The City of Long Beach (including the Port of Long Beach [POLB]) and the City of Los Angeles (including the Port of Los Angeles [POLA]) are identified in the Harbor Toxics TMDL as two of the responsible parties. In support of the TMDL implementation process, the Ports of Long Beach and Los Angeles (Ports) are performing special studies using integrated scientific and data-based models of the hydrodynamic, sediment transport, chemical fate, and bioaccumulation conditions in the harbor and the food web to help identify the sources of elevated toxic concentrations in fish tissues. These harbor-specific models seek to identify the in-harbor and out-of-harbor sources of contaminants that would need to be reduced so that concentrations of TMDL chemicals of concern in fish tissue are effectively reduced. This special study (herein referred to as *Watershed Loading Estimation—Storm Water Monitoring*) was planned and conducted to support these harbor-specific models by filling critical data gaps and providing calibration and validation data points (Anchor QEA, 2013).

This Watershed Loading Estimation—Storm Water Monitoring study has two primary elements:

- ***Primary Study:*** The Watershed Loading Estimation—Storm Water project is a special study that was designed to provide high-resolution data of polychlorinated biphenyl (PCB) and dichlorodiphenyltrichloroethane (DDT) concentrations in storm water and dry weather flows into the Ports' jurisdictions from the watersheds of the Los Angeles River and the Dominguez Channel. The goals of this project, as well as the basic methods, were vetted through the Harbor Technical Working Group (HTWG), which is composed of the Ports, the LARWQCB, the State Water Resources Control Board (SWRCB), and the Southern California Coastal Water Research Project (SCCWRP).
- ***Mid-Column Sediment Study:*** Samples were collected in close temporal proximity at both the existing monitoring location (using a pump and the intake from the channel bottom) and from the horizontal and vertical center of the channel so that a correlation between the two sampling locations could be determined. The high velocities and significant debris during storm flows made commercially available samplers impractical for collection of the mid-column water quality sample. Thus, a proprietary sampler was designed that could deflect debris, function in high velocities, adjust the intake depth, and collect water into a container at the water's surface to minimize loss of suspended sediments.

The results of the Watershed Loading Estimation—Storm Water Monitoring study, which are presented in this report, are intended to refine boundary conditions for the Harbor Toxics TMDL model. Data on DDTs, PCBs, metals, and suspended sediment were collected as part of this study. Monitoring was conducted at the identified monitoring sites on February 18–19, 2014; February 27, 2014; December 12–13, 2014; and April 7, 2015.

The monitoring site coordinates and the site identifications (IDs) are presented in Table ES-1.

Table ES-1.
Monitoring Site Locations

Site Name	Site ID	Latitude	Longitude
Dominguez Channel	DC	33.872594	–118.311344
Los Angeles River	LAR	33.817357	–118.205521
Torrance Lateral	TL	33.844618	–118.279871
Port Land Use (Pier A)	PLU	33.773787	–118.230840
Machado Lake	ML	33.779351	–118.230840
Freshwater Lens	FWL	33.835469	–118.257888

Three sampling methodologies were used to collect water quality samples, based on the study objectives: (1) grab sampling, (2) composite sampling, and (3) pollutograph sampling. Additionally, in-situ water quality and salinity measurements were collected.

Table ES-2 indicates the sampling methodologies used at each site.

Table ES-2.
Sampling Methodology

Site	Grab Sample	Flow-Weighted Composite Sample	Pollutograph Sample	In-Situ Sample	Salinity Measurement
Dominguez Channel	—	X	X	X	—
Los Angeles River	—	X	X	X	—
Torrance Lateral	—	X	—	X	—
Port Land Use (Pier A)	—	X	—	X	—
Machado Lake	X	—	—	—	—
Freshwater Lens	X	—	—	—	X

Four separate monitoring events were completed over the course of this study. These monitoring events are summarized in Table ES-3.

Table ES-3.
Monitoring Event Summary

Site	Event Type and Date			
	Dry Weather	Wet Weather		
	Dry Event 18–19 Feb. 2014	Storm Event 1 27 Feb. 2014	Storm Event 2 12–13 Dec. 2014	Storm Event 3 7 Apr. 2015
Dominguez Channel	X	X	X	—
Los Angeles River	X	X	X	—
Torrance Lateral	—	—	X	—
Port Land Use (Pier A)	—	—	X	X
Machado Lake	—	X	—	—
Freshwater Lens	—	X	X	—

Primary Study Results

The reported analytical laboratory results for total PCBs and total DDTs are in Table ES-4 and Table ES-5, respectively.

Table ES-4.
Total PCB Results

Site	Event Total PCB (pg/L)			
	Dry Event Feb. 18–19, 2014	Storm Event 1 Feb. 27, 2014	Storm Event 2 Dec. 12–13, 2014	Storm Event 3 Apr. 7, 2015
Dominguez Channel	1,140	20,300	76,966	—
Los Angeles River	3,380	37,400	63,564	—
Torrance Lateral	—	—	32,912	—
Port Land Use (Pier A)	—	—	26,620	38,744
Machado Lake	—	1,190	—	—
Freshwater Lens	—	12,300	11,496	—

pg/L = picograms per liter

Table ES-5.
Total DDT Results

Site	Event Total DDT (pg/L)			
	Dry Event	Storm Event 1	Storm Event 2	Storm Event 3
	Feb. 18–19, 2014	Feb. 27, 2014	Dec. 12–13, 2014	Apr. 7, 2015
Dominguez Channel	411	25,619	62,180	—
Los Angeles River	1,076	20,232	37,716	—
Torrance Lateral	—	—	515,280	—
Port Land Use (Pier A)	—	—	3,358	4,606
Machado Lake	—	1,243	—	—
Freshwater Lens	—	55,591	38,858	—

pg/L = picograms per liter

The data obtained during this special study indicate that PCBs and DDTs are still being sourced to San Pedro Bay from watershed sources.

Mid-Column Sediment Study Results

The average reported TSS and turbidity values are presented in Table ES-6 and Table ES-7, for Dominguez Channel and the Los Angeles River, respectively.

Table ES-6.
Dominguez Channel Mid-Column Sampling Average Results

Analyte	Bottom (MES)	Mid Water Column (Bridge)
Total Suspended Solids (mg/L)	94	111
Turbidity (NTU)	64	58

mg/L = milligrams per liter; NTU = nephelometric turbidity units

Table ES-7.
Los Angeles River Mid-Column Sampling Average Results

Analyte	Bottom (MES)	Mid Water Column (Bridge)
Total Suspended Solids (mg/L)	258	357
Turbidity (NTU)	137	202

mg/L = milligrams per liter; NTU = nephelometric turbidity units

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ACRONYMS AND ABBREVIATIONS

%	percent
°C	degrees Celsius
Amec Foster Wheeler	Amec Foster Wheeler Environment & Infrastructure, Inc.
Anchor QEA	Anchor QEA, LLC
ASTM	American Society for Testing and Materials (now ASTM International)
AVB	area velocity bubbler
Calscience	Eurofins Calscience Environmental Laboratories, Inc.
cf	cubic feet
cm	centimeters
DC	Dominguez Channel
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
EM	estimated maximum
EMC	event mean concentration
Everest	Everest International Consultants, Inc.
FWL	Freshwater Lens
G	grab (sample)
Harbor Toxics TMDL	Final Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters Toxic Pollutants Total Maximum Daily Load
HDPE	high-density polyethylene
HTWG	Harbor Toxics Working Group
ID	(site) identification
Inc.	incorporated
L	liters
LACDPW	Los Angeles County Department of Public Works
LACFCD	Los Angeles County Flood Control District
LAR	Los Angeles River
LARWQCB	Los Angeles Regional Water Quality Control Board
LCS	laboratory control sample
LLC	limited liability corporation
µg	micrograms
µm	micrometers
µS	microsiemens
MDL	method detection limit
mg	milligrams
ML	Machado Lake

ACRONYMS AND ABBREVIATIONS (Cont.)

mm	millimeters
MQO	method quality objective
N/A	not applicable
ng	nanograms
NM	not measured
NTU	nephelometric turbidity units
NWS	National Weather Service
PCB	polychlorinated biphenyl
pg	picograms
pH	hydrogen potential (indicator of acidity or basicity)
Physis	Physis Environmental Laboratory, Inc.
PLU	Port Land Use (Pier A)
POC	particulate organic carbon
POLA	Port of Los Angeles
POLB	Port of Long Beach
Ports	Port of Long Beach and the Port of Los Angeles
ppm	parts per million
PQAPP	programmatic quality assurance project plan
QA	quality assurance
QC	quality control
R	recovery
RL	reporting limit
RPD	relative percent difference
SAP	sampling and analysis plan
SCCWRP	Southern California Coastal Water Research Project
Section 303(d)	Section 303(d) of the Clean Water Act
SM	standard method
SRM	standard reference material
SWAMP	Surface Water Ambient Monitoring Program
SWRCB	State Water Resources Control Board
TL	Torrance Lateral
TMDL	total maximum daily load
TSS	total suspended solids
USEPA	United States Environmental Protection Agency
Vista	Vista Analytical Laboratory, Inc.
YSI	Yellow Springs Instruments

1.0 INTRODUCTION

1.1 Project Background

In 2011, the Final Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters Toxic Pollutants Total Maximum Daily Load (TMDL) (Harbor Toxics TMDL) was adopted by the Los Angeles Regional Water Quality Control Board (LARWQCB) and the United States Environmental Protection Agency (USEPA) (LARWQCB and USEPA, 2011). The Harbor Toxics TMDL includes contaminant limits (surface sediment, storm water effluent, and fish tissues) that are defined as target loads (concentrations) for compliance by 2032. The Harbor Toxics TMDL was established to protect marine life and minimize human health risks from the consumption of fish (Anchor QEA, 2013).

The City of Long Beach (including the Port of Long Beach [POLB]) and the City of Los Angeles (including the Port of Los Angeles [POLA]) are identified in the Harbor Toxics TMDL as two of the responsible parties. Consequently, the Ports of Long Beach and Los Angeles (Ports) are, together with other stakeholders, responsible for complying with the Harbor Toxics TMDL and for ultimately identifying and reducing sediment and fish tissue toxic concentrations in harbor waters to levels that do not cause further social or environmental harm (Anchor QEA, 2013).

The Implementation Plan, which guides actions and compliance monitoring required to meet the TMDL, was developed as part of the TMDL. In addition to compliance monitoring, the Ports are performing special studies using integrated scientific and data-based models of the hydrodynamic, sediment transport, chemical fate, and bioaccumulation conditions in the harbor and the food web to evaluate the causes of elevated toxic concentrations in fish tissue. These models seek to identify the in-harbor and out-of-harbor sources of toxics that need to be reduced so that toxic concentrations in fish tissue are effectively reduced. This special study (Watershed Loading Estimation—Storm Water Monitoring) supports these models by filling data gaps and provides calibration and validation data points (Anchor QEA, 2013).

1.2 Scope of Work

The original scope of work for the Watershed Loading Estimation—Storm Water Monitoring study was dynamic and evolved into two distinct phases: (1) Primary Study and (2) Mid-Column Sediment Study.

1.2.1 Primary Study

The Watershed Loading Estimation—Storm Water Monitoring project is a special study that was designed to provide higher-resolution data of polychlorinated biphenyl (PCB) and dichlorodiphenyltrichloroethane (DDT) concentrations in storm water and dry weather flows into the Ports' jurisdictions from the watersheds of the Los Angeles River and the Dominguez Channel.

The goals of this study, as well as its basic methods, were vetted through the Harbor Technical Working Group (HTWG), which is composed of the Ports, the LARWQCB, the State Water Resources Control Board (SWRCB), and the Southern California Coastal Water Research Project (SCCWRP).

Typically, results reported below the method detection limit (MDL) by analytical laboratories are assumed to be one-half of the MDL for use in modeling (Tetra Tech, 2006). Modeling was ultimately used in the development of the Harbor Toxics TMDL (Tetra Tech, 2010).

This project differed from previous studies by using high-volume sampling (a recently emerged technology), which enabled attaining ultra-low detection limit analysis for project-specific contaminants of concern. For this study, the identified contaminants of concern and the target reporting limits were as follows:

- PCB congeners at a reporting limit (RL) of 1 picogram per liter (pg/L) and a sub-pg/L MDL (USEPA, 2010)
- DDTs at sub-nanogram per liter (ng/L) RL and MDL (USEPA, 2007a)
- Metals at a sub-microgram per liter (µg/L) RL and MDL (USEPA, 2007b)

The results of the Watershed Loading Estimation—Storm Water Monitoring study (presented in this report) are intended to refine boundary conditions for the TMDL model by informing the bioaccumulation model for DDTs and PCBs. Metals and suspended sediment data were also collected as an opportunity to inform the broader TMDL.

1.2.2 Mid-Column Sediment Study

Best practice for automated composite sampling is to locate the sample intake on the bottom of a channel to avoid debris. Following the first two monitoring events (Dry Event and Storm Event 1), it was determined that the data being collected in this manner were not ideal for model calibration. Thus, the Mid-Column Sediment Study was developed as a second watershed study to collect pollutograph samples during a storm event simultaneously from the bottom and mid-column water of the Los Angeles River and the Dominguez Channel.

Water quality grab samples were collected in close temporal proximity at both the existing monitoring location (using a pump and the intake from the channel bottom) and from the horizontal and vertical center of the channel, to determine a correlation between the two sampling locations. This special study was conducted during the third monitoring event (Storm Event 2).

The high velocities and significant debris during storm flows made commercially available samplers impractical for collecting the mid-column water quality sample. Thus, a proprietary sampler was designed that can deflect debris, function in high velocities, adjust the intake depth, and collect water into a container at the water’s surface to minimize loss of sediments.

2.0 MONITORING METHODS

Sampling and analysis were conducted by Amec Foster Wheeler Environment & Infrastructure Inc. (Amec Foster Wheeler) in general accordance with the requirement of the Final Sampling and Analysis Plan Harbor Toxics Total Maximum Daily Load Watershed Loading Estimation—Storm Water (SAP) (Amec Foster Wheeler, 2013) and also in line with the Programmatic Quality Assurance Project Plan (PQAPP) (Anchor QEA, 2013). The SAP is included as Appendix A for reference. The PQAPP is maintained by Anchor QEA.

2.1 Monitoring Sites

Water quality monitoring was conducted at six sites, based on the SAP. Monitoring events were conducted on February 18–19, 2014 (Dry Event); February 27, 2014 (Storm Event 1); December 12–13, 2014 (Storm Event 2); and April 7, 2015 (Storm Event 3).

The monitoring site coordinates and the site identifications (IDs) are presented in Table 2-1, and an aerial view of the monitoring site locations is presented in Figure 2-1.

Table 2-1.
Monitoring Site Locations

Site Name	Site	Latitude	Longitude
Dominguez Channel	DC	33.872594	–118.311344
Los Angeles River	LAR	33.817357	–118.205521
Torrance Lateral	TL	33.844618	–118.279871
Port Land Use (Pier A)	PLU	33.773787	–118.230840
Machado Lake	ML	33.779351	–118.230840
Freshwater Lens	FWL	33.835469	–118.257888

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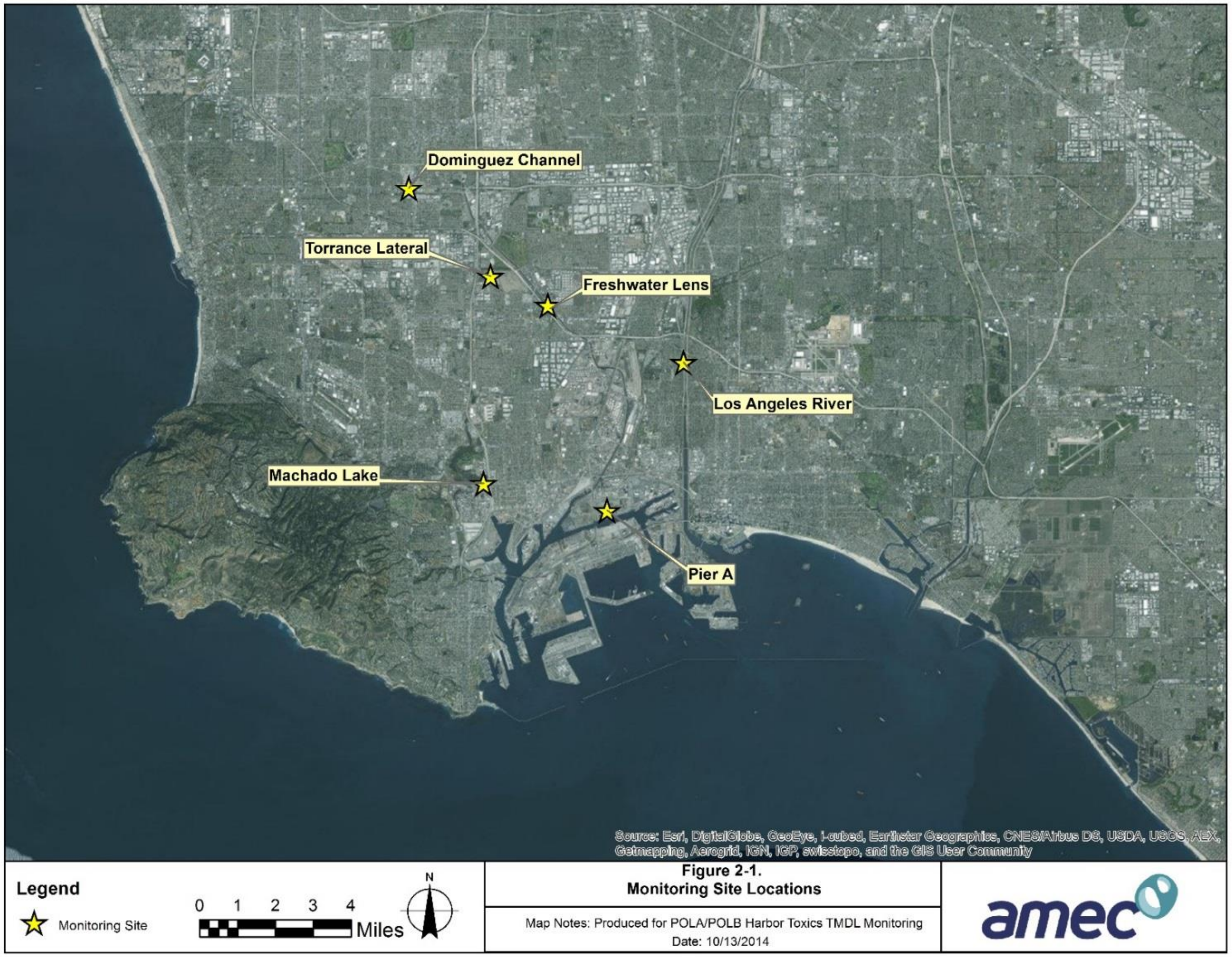
Figure 2-1. Monitoring Site Locations



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2.2 Sampling Methodology

Based on the study objectives, three sampling methodologies were used to collect water quality samples: (1) grab sampling, (2) composite sampling, and (3) pollutograph sampling. Additionally, in-situ water quality measurements and salinity measurements were collected.

Table 2-2 indicates the sampling methodology that was used at each site.

Table 2-2.
Sampling Methodology

Site	Grab Sample	Flow-Weighted Composite Sample	Pollutograph Sample	In-Situ Sample	Salinity Measurement
Dominguez Channel (DC)	—	X	X	X	—
Los Angeles River (LAR)	—	X	X	X	—
Torrance Lateral (TL)	—	X	—	X	—
Port Land Use (Pier A) (PLU)	—	X	—	X	—
Machado Lake (ML)	X	—	—	—	—
Freshwater Lens (FWL)	X	—	—	—	X

2.3 Monitoring Equipment

Table 2-3 specifies the monitoring equipment used at each site. Please refer to the SAP for a more detailed explanation of monitoring equipment and installation methods, as required. (The equipment has since been removed from the monitoring sites, in accordance with the SAP.)

Table 2-3.
Monitoring Equipment

Equipment	Site					
	DC	LAR	TL	PLU	ML	FWL
Safety Enclosure	X	X	X	X	—	—
Area Velocity Bubbler (AVB) Flow Meter, American Sigma 950	X	X	X	X	—	—
Bubbler Pressure Transducer	X	X	—	—	—	—
AVB Sensor	—	—	X	X	—	—
Automated Composite Sampler, Hach SD900	X	X	X	X	X	X
Remote Pump	—	X	—	—	—	—
Peristaltic Tubing	X	X	X	X	X	X
Intake Tubing, Teflon-Lined	X	X	X	X	X	X
Intake Strainer, Stainless Steel	X	X	X	X	—	—
Marine Battery, 12-Volt Direct Current Deep-Cycle	X	X	X	X	X	X
Water Quality Sonde, Yellow Springs Instruments (YSI) 6-Series	X	X	X	X	—	—
pH, Conductivity, and Temperature Meter, Oakton CON10	—	—	—	—	—	X
Glass Bottles, 19-Liter Borosilicate	X	X	X	X	X	X
Mid-Column Water Quality Sampler (Proprietary)	—	X	—	—	—	—

DC = Dominguez Channel; FWL = Freshwater Lens; LAR = Los Angeles River; ML = Machado Lake; PLU = Port Land Use (Pier A); TL = Torrance Lateral

2.4 Flow Estimation Methodology

Stream rating curves for monitoring the DC and LAR sites were developed, based on historical data[1] provided to Amec Foster Wheeler by Everest International Consultants (Everest).

The developed rating curves are provided in Appendix B. Table 2-4 presents the flow estimation methodology that was used at each site. Please refer to the SAP for more detailed information.

1 Via email from Ying Poon (Everest) to Tommy Wells (Amec Foster Wheeler) on November 19, 2013.

Table 2-4.
Flow Estimation Methodology

Site	Flow Measurement Method		
	Head Versus Flow Table	Area Velocity	No Flow Measurement
Dominguez Channel (DC)	X	—	—
Los Angeles River (LAR)	X	—	—
Torrance Lateral (TL)	—	X	—
Port Land Use (Pier A) (PLU)	—	X	—
Machado Lake (ML)	—	—	X
Freshwater Lens (FWL)	—	—	X

2.5 Permits and Permissions

Encroachment permits were obtained from the Los Angeles County Flood Control District (LACFCD) for installation and monitoring activities conducted on the Los Angeles River, Dominguez Channel, and Torrance Lateral. Permission for access to Machado Lake was obtained from the City of Los Angeles Department of Recreation and Parks. The Port of Long Beach provided permission to access the Pier A site and coordinated monitoring events directly with Port security staff.

2.6 Monitoring Events

Four monitoring events were completed over the course of this study. The monitoring events are summarized in Table 2-5.

Table 2-5.
Monitoring Event Summary

Site	Dry Weather	Wet Weather		
	Dry Event Feb. 18–19, 2014	Storm Event 1 Feb. 27, 2014	Storm Event 2 Dec. 12–13, 2014	Storm Event 3 Apr. 7, 2015
Dominguez Channel (DC)	X	X	X	—
Los Angeles River (LAR)	X	X	X	—
Torrance Lateral (TL)	—	—	X	—
Port Land Use (Pier A) (PLU)	—	—	X	X
Machado Lake (ML)	—	X	—	—
Freshwater Lens (FWL)	—	X	X	—

2.6.1 In-Situ Water Quality Measurements

During monitoring events, in-situ water quality measurements were collected at LAR, DC, TL, and PLU, except that at PLU no in-situ water quality measurements were collected during the April 7, 2015, monitoring event. Table 2-6 provides the in-situ water quality measurements that were collected during monitoring events.

Table 2-6.
In-Situ Field Measurements

Constituent	Method	Units
pH	YSI 6600 Series Sonde	pH units
Electrical Conductivity		Microsiemens per centimeter (µS/cm)
Temperature		Degrees Celsius (°C)
Dissolved Oxygen		Milligrams per liter (mg)/L
Turbidity		Nephelometric turbidity units (NTU)

2.6.2 Dry Weather Water Quality Monitoring

A dry weather monitoring event was performed on the following date in accordance with the methods described in the SAP:

- February 18–19, 2014—Dry Event

2.6.3 Storm Water Quality Monitoring

Storm monitoring events were performed on the following dates in accordance with the methods described in the SAP:

- February 27, 2014—Storm Event 1
- December 12–13, 2014—Storm Event 2
- April 7, 2015—Storm Event 3

2.7 Mid-Column Sediment Sampling

This component was designed to compare sediment concentrations and size distribution between the bottom of the water column (where flow-weighted composite samples are typically collected) and the horizontal and vertical center of the water column (which is considered ideal for modeling). This was conducted on December 12–13, 2014, during the Storm Event 2 monitoring.

This study used temporally paired grab samples collected throughout a storm event (pollutograph grab sampling) from both the bottom of the channel and the horizontal and vertical center of the water column. This allowed comparison between the sediment composition in the bottom of the water column versus that in the horizontal and vertical center of the water column. This sampling was undertaken at monitoring sites DC and LAR.

2.7.1 Intake Battery at DC

For the DC monitoring site, Amec Foster Wheeler installed a "battery" of sample intakes on the Artesia Boulevard Bridge. Four intakes were installed at one-foot intervals. During each pollutograph grab sampling, the depth displayed on the flow meter was used to determine which intake tube from the battery to use for collecting the mid-column sample. A peristaltic pump was then attached to the corresponding intake tube and a sample was collected. Simultaneously, a grab sample was collected from the bottom of the water column, using the automated sampler that was collecting the composite sample.

Figure 2-2 illustrates the sample intake battery.

Figure 2-2. DC Sample Intake Battery

A battery of sample intakes was installed on the Artesia Blvd. Bridge.

2.7.2 Proprietary Sampler at LAR

The LAR monitoring site is at the Wardlow Street Bridge at its crossing over the Los Angeles River, where it is higher than sampling pumps can operate, based on current technology. Thus, Amec Foster Wheeler developed and tested a proprietary sampling apparatus to collect the mid-column sample from this site. An automated sampler was mounted inside the bottom half of a plastic 55-gallon drum. The intake tubing followed a stainless steel post below the bottom of the drum. The bottom of the post contained a stainless steel weight, fins, and torpedo-shaped guide rods (designed to quickly clear debris) where the intake strainer was mounted. The structure was designed to allow movement forward, back, left, and right, which facilitates clearing debris if needed during sampling. A level sensor was mounted on the bottom of the torpedo so that the operator could determine when the sampler entered the water and its approximate depth. This sampling apparatus was mounted on and deployed from a truck-mounted crane. A delay timer was used to collect samples.

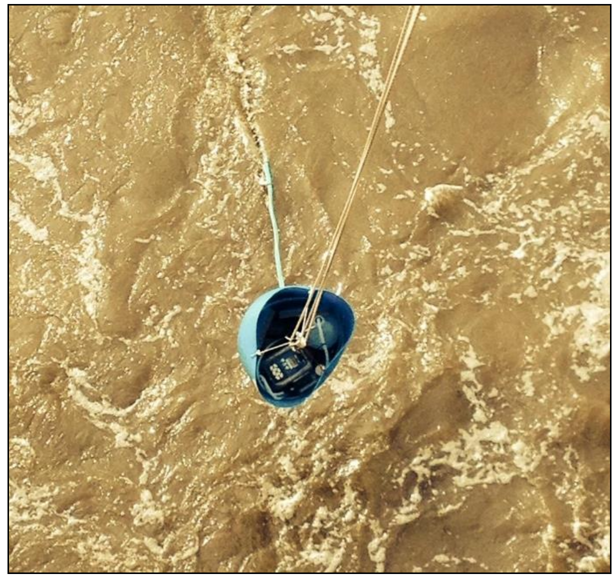
Figure 2-3 shows the proprietary sampler and Figure 2-4 shows it during sampling activities.

Figure 2-3. Proprietary Sampler

A proprietary sampler was developed to sample from the Wardlow St. Bridge.

Figure 2-4. Proprietary Sampler Deployed

The sampler was mounted on a crane.



The sampler moved freely to clear debris.

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3.0 ANALYTICAL METHODS

Three analytical laboratories were used to meet the analysis requirements of this project:

- Physis Environmental Laboratory, Inc (Physis) of Anaheim, CA
- Eurofins Calscience Environmental Laboratories, Inc. (Calscience) of Garden Grove, CA
- Vista Analytical Laboratory (Vista) of El Dorado Hills, CA

3.1 Compositing and Subsampling

Following completion of monitoring activities, samples were transported on ice to Physis under chain-of-custody procedures. Upon receipt of samples, Physis performed the required sample compositing as directed by Amec Foster Wheeler. Physis conducted subsampling, sample filtering, and preservation of samples as required. Table 3-1 presents the selected analytical parameters, sample volumes, containers, holding times, and preservation methods.

Table 3-1.
Sample Volumes, Containers, Holding Times, and Preservatives

Parameter	Sample Size	Container Size and Type	Holding Time	Preservative
Polychlorinated Biphenyl (PCB) Congeners	5 L	10-L glass	1 year	<4 °C
DDT (Organochlorine Pesticides)	5 L	10-L glass	14 days until extraction	<4 °C; pH, 5–9
			40 days after extraction	
Total Metals	1 L	1-L plastic	48 hours until preservation	<4 °C
			6 months until analysis	HNO_3 <pH 2
Dissolved Metals	1 L	1-L plastic	48 hours until laboratory filtration and preservation	<4 °C
			6 months to analysis	HNO_3 <pH 2
Total Suspended Solids (TSS)	1 L	1-L high-density polyethylene (HDPE)	7 days	<4 °C
Particle Size	1 L	1-L HDPE	7 days	<4 °C
Particulate Organic Carbon (POC)	5 L	10-L glass	48 hours until filtration	<4 °C
			28 days until analysis	
Turbidity (at grab sites only)	1 L	1-L plastic	As soon as possible	<4 °C

°C = degrees Celsius; DDT = dichlorodiphenyltrichloroethane; L = liter(s)

3.2 Sample Delivery

Following completion of compositing and subsampling by Physis, an Amec Foster Wheeler courier picked up samples to be analyzed by Eurofins Calscience and Vista and delivered them within their holding time to the appropriate lab. Samples were maintained on ice and under chain-of-custody procedures at all times. Table 3-2 lists the holding times and analytical laboratories employed for the study.

Table 3-2.
Sample Holding Times and Analytical Laboratories

<table>
<tr><th>Parameter</th><th>Analytical Laboratory</th><th>Holding Time</th></tr>
<tr><td>Polychlorinated Biphenyl (PCB) Congeners</td><td rowspan="3">Vista Analytical Laboratory</td><td>1 year</td></tr>
<tr><td rowspan="2">DDT
(Organochlorine Pesticides)</td><td>14 days until extraction</td></tr>
<tr><td>40 days after extraction</td></tr>
<tr><td rowspan="2">Total Metals</td><td rowspan="4">Physis Environmental Laboratory</td><td>48 hours until preservation</td></tr>
<tr><td>6 months until analysis</td></tr>
<tr><td rowspan="2">Dissolved Metals</td><td>48 hours until laboratory filtration and preservation</td></tr>
<tr><td>6 months until analysis</td></tr>
<tr><td>Total Suspended Solids (TSS)</td><td rowspan="5">Eurofins Calscience Environmental Laboratories</td><td>7 days</td></tr>
<tr><td>Particle Size</td><td>7 days</td></tr>
<tr><td rowspan="2">Particulate Organic Carbon (POC)</td><td>48 hours until filtration</td></tr>
<tr><td>28 days until analysis</td></tr>
<tr><td>Turbidity</td><td>As short as possible</td></tr>
</table>

DDT = dichlorodiphenyltrichloroethane

3.3 Laboratory Analysis

Samples were analyzed by the respective laboratories within the required holding times. Table 3-3 presents the analytical methods and target reporting limits.

Table 3-3.
Analytical Methods and Target Reporting Limits

Parameter	Analytical Method	Target Reporting Limit
Total and Dissolved Metals (µg/L)		
Cadmium	USEPA 200.8	0.01
Chromium	USEPA 200.8	0.1
Copper	USEPA 200.8	0.01
Lead	USEPA 200.8	0.01
Mercury	USEPA 1631E	0.0002
Zinc	USEPA 200.8	0.10
General Chemistry		
TSS (mg/L)	Standard Method (SM) 2540 D	0.5
POC (mg/L)	USEPA 440	0.1
Particle Size Determination (percent)	American Society for Testing and Materials (ASTM) D4464M	0.1
Turbidity (NTU)	SM 2130 B	1.0
Organochlorine Pesticides (ng/L)—High-Resolution Analytical Method		
2,4’-DDD	USEPA 1699	0.50
2,4’-DDE	USEPA 1699	0.50
2,4’-DDT	USEPA 1699	0.50
4,4’-DDD	USEPA 1699	0.50
4,4’-DDE	USEPA 1699	0.50
4,4’-DDT	USEPA 1699	0.50
4,4'-DDMU	USEPA 1699	0.50
PCB Congeners (ng/L)—High-Resolution Analytical Method		
CL1-PCB-1	USEPA 1668C	0.001
CL1-PCB-2	USEPA 1668C	0.001
CL1-PCB-3	USEPA 1668C	0.001
CL2-PCB-4	USEPA 1668C	0.001
CL2-PCB-5	USEPA 1668C	0.001
CL2-PCB-6	USEPA 1668C	0.001
CL2-PCB-7	USEPA 1668C	0.001
CL2-PCB-8	USEPA 1668C	0.001
CL2-PCB-9	USEPA 1668C	0.001
CL2-PCB-10	USEPA 1668C	0.001
CL2-PCB-11	USEPA 1668C	0.001
CL2-PCB-12	USEPA 1668C	0.001
CL2-PCB-13	USEPA 1668C	0.001
CL2-PCB-14	USEPA 1668C	0.001
CL2-PCB-15	USEPA 1668C	0.001
CL3-PCB-16	USEPA 1668C	0.001

Table 3.3
Analytical Methods and Target Reporting Limits (Cont.)

Parameter	Analytical Method	Target Reporting Limit
CL3-PCB-17	USEPA 1668C	0.001
CL3-PCB-18	USEPA 1668C	0.001
CL3-PCB-19	USEPA 1668C	0.001
CL3-PCB-20	USEPA 1668C	0.001
CL3-PCB-21	USEPA 1668C	0.001
CL3-PCB-22	USEPA 1668C	0.001
CL3-PCB-23	USEPA 1668C	0.001
CL3-PCB-24	USEPA 1668C	0.001
CL3-PCB-25	USEPA 1668C	0.001
CL3-PCB-26	USEPA 1668C	0.001
CL3-PCB-27	USEPA 1668C	0.001
CL3-PCB-28	USEPA 1668C	0.001
CL3-PCB-29	USEPA 1668C	0.001
CL3-PCB-30	USEPA 1668C	0.001
CL3-PCB-31	USEPA 1668C	0.001
CL3-PCB-32	USEPA 1668C	0.001
CL3-PCB-33	USEPA 1668C	0.001
CL3-PCB-34	USEPA 1668C	0.001
CL3-PCB-35	USEPA 1668C	0.001
CL3-PCB-36	USEPA 1668C	0.001
CL3-PCB-37	USEPA 1668C	0.001
CL3-PCB-38	USEPA 1668C	0.001
CL3-PCB-39	USEPA 1668C	0.001
CL4-PCB-40	USEPA 1668C	0.001
CL4-PCB-41	USEPA 1668C	0.001
CL4-PCB-42	USEPA 1668C	0.001
CL4-PCB-43	USEPA 1668C	0.001
CL4-PCB-44	USEPA 1668C	0.001
CL4-PCB-45	USEPA 1668C	0.001
CL4-PCB-46	USEPA 1668C	0.001
CL4-PCB-47	USEPA 1668C	0.001
CL4-PCB-48	USEPA 1668C	0.001
CL4-PCB-49	USEPA 1668C	0.001
CL4-PCB-50	USEPA 1668C	0.001
CL4-PCB-51	USEPA 1668C	0.001
CL4-PCB-52	USEPA 1668C	0.001
CL4-PCB-53	USEPA 1668C	0.001
CL4-PCB-54	USEPA 1668C	0.001
CL4-PCB-55	USEPA 1668C	0.001
CL4-PCB-56	USEPA 1668C	0.001
CL4-PCB-57	USEPA 1668C	0.001
CL4-PCB-58	USEPA 1668C	0.001
CL4-PCB-59	USEPA 1668C	0.001
CL4-PCB-60	USEPA 1668C	0.001
CL4-PCB-61	USEPA 1668C	0.001

Table 3.3
Analytical Methods and Target Reporting Limits (Cont.)

Parameter	Analytical Method	Target Reporting Limit
CL4-PCB-62	USEPA 1668C	0.001
CL4-PCB-63	USEPA 1668C	0.001
CL4-PCB-64	USEPA 1668C	0.001
CL4-PCB-65	USEPA 1668C	0.001
CL4-PCB-66	USEPA 1668C	0.001
CL4-PCB-67	USEPA 1668C	0.001
CL4-PCB-68	USEPA 1668C	0.001
CL4-PCB-69	USEPA 1668C	0.001
CL4-PCB-70	USEPA 1668C	0.001
CL4-PCB-71	USEPA 1668C	0.001
CL4-PCB-72	USEPA 1668C	0.001
CL4-PCB-73	USEPA 1668C	0.001
CL4-PCB-74	USEPA 1668C	0.001
CL4-PCB-75	USEPA 1668C	0.001
CL4-PCB-76	USEPA 1668C	0.001
CL4-PCB-77	USEPA 1668C	0.001
CL4-PCB-78	USEPA 1668C	0.001
CL4-PCB-79	USEPA 1668C	0.001
CL4-PCB-80	USEPA 1668C	0.001
CL4-PCB-81	USEPA 1668C	0.001
CL5-PCB-82	USEPA 1668C	0.001
CL5-PCB-83	USEPA 1668C	0.001
CL5-PCB-84	USEPA 1668C	0.001
CL5-PCB-85	USEPA 1668C	0.001
CL5-PCB-86	USEPA 1668C	0.001
CL5-PCB-87	USEPA 1668C	0.001
CL5-PCB-88	USEPA 1668C	0.001
CL5-PCB-89	USEPA 1668C	0.001
CL5-PCB-90	USEPA 1668C	0.001
CL5-PCB-91	USEPA 1668C	0.001
CL5-PCB-92	USEPA 1668C	0.001
CL5-PCB-93	USEPA 1668C	0.001
CL5-PCB-94	USEPA 1668C	0.001
CL5-PCB-95	USEPA 1668C	0.001
CL5-PCB-96	USEPA 1668C	0.001
CL5-PCB-97	USEPA 1668C	0.001
CL5-PCB-98	USEPA 1668C	0.001
CL5-PCB-99	USEPA 1668C	0.001
CL5-PCB-100	USEPA 1668C	0.001
CL5-PCB-101	USEPA 1668C	0.001
CL5-PCB-102	USEPA 1668C	0.001
CL5-PCB-103	USEPA 1668C	0.001
CL5-PCB-104	USEPA 1668C	0.001
CL5-PCB-105	USEPA 1668C	0.001
CL5-PCB-106	USEPA 1668C	0.001

Table 3.3
Analytical Methods and Target Reporting Limits (Cont.)

Parameter	Analytical Method	Target Reporting Limit
CL5-PCB-107	USEPA 1668C	0.001
CL5-PCB-108	USEPA 1668C	0.001
CL5-PCB-109	USEPA 1668C	0.001
CL5-PCB-110	USEPA 1668C	0.001
CL5-PCB-111	USEPA 1668C	0.001
CL5-PCB-112	USEPA 1668C	0.001
CL5-PCB-113	USEPA 1668C	0.001
CL5-PCB-114	USEPA 1668C	0.001
CL5-PCB-115	USEPA 1668C	0.001
CL5-PCB-116	USEPA 1668C	0.001
CL5-PCB-117	USEPA 1668C	0.001
CL5-PCB-118	USEPA 1668C	0.001
CL5-PCB-119	USEPA 1668C	0.001
CL5-PCB-120	USEPA 1668C	0.001
CL5-PCB-121	USEPA 1668C	0.001
CL5-PCB-122	USEPA 1668C	0.001
CL5-PCB-123	USEPA 1668C	0.001
CL5-PCB-124	USEPA 1668C	0.001
CL5-PCB-125	USEPA 1668C	0.001
CL5-PCB-126	USEPA 1668C	0.001
CL5-PCB-127	USEPA 1668C	0.001
CL6-PCB-128	USEPA 1668C	0.001
CL6-PCB-129	USEPA 1668C	0.001
CL6-PCB-130	USEPA 1668C	0.001
CL6-PCB-131	USEPA 1668C	0.001
CL6-PCB-132	USEPA 1668C	0.001
CL6-PCB-133	USEPA 1668C	0.001
CL6-PCB-134	USEPA 1668C	0.001
CL6-PCB-135	USEPA 1668C	0.001
CL6-PCB-136	USEPA 1668C	0.001
CL6-PCB-137	USEPA 1668C	0.001
CL6-PCB-138	USEPA 1668C	0.001
CL6-PCB-139	USEPA 1668C	0.001
CL6-PCB-140	USEPA 1668C	0.001
CL6-PCB-141	USEPA 1668C	0.001
CL6-PCB-142	USEPA 1668C	0.001
CL6-PCB-143	USEPA 1668C	0.001
CL6-PCB-144	USEPA 1668C	0.001
CL6-PCB-145	USEPA 1668C	0.001
CL6-PCB-146	USEPA 1668C	0.001
CL6-PCB-147	USEPA 1668C	0.001
CL6-PCB-148	USEPA 1668C	0.001
CL6-PCB-149	USEPA 1668C	0.001
CL6-PCB-150	USEPA 1668C	0.001
CL6-PCB-151	USEPA 1668C	0.001

Table 3.3
Analytical Methods and Target Reporting Limits (Cont.)

Parameter	Analytical Method	Target Reporting Limit
CL6-PCB-152	USEPA 1668C	0.001
CL6-PCB-153	USEPA 1668C	0.001
CL6-PCB-154	USEPA 1668C	0.001
CL6-PCB-155	USEPA 1668C	0.001
CL6-PCB-156	USEPA 1668C	0.001
CL6-PCB-157	USEPA 1668C	0.001
CL6-PCB-158	USEPA 1668C	0.001
CL6-PCB-159	USEPA 1668C	0.001
CL6-PCB-160	USEPA 1668C	0.001
CL6-PCB-161	USEPA 1668C	0.001
CL6-PCB-162	USEPA 1668C	0.001
CL6-PCB-163	USEPA 1668C	0.001
CL6-PCB-164	USEPA 1668C	0.001
CL6-PCB-165	USEPA 1668C	0.001
CL6-PCB-166	USEPA 1668C	0.001
CL6-PCB-167	USEPA 1668C	0.001
CL6-PCB-168	USEPA 1668C	0.001
CL6-PCB-169	USEPA 1668C	0.001
CL7-PCB-170	USEPA 1668C	0.001
CL7-PCB-171	USEPA 1668C	0.001
CL7-PCB-172	USEPA 1668C	0.001
CL7-PCB-173	USEPA 1668C	0.001
CL7-PCB-174	USEPA 1668C	0.001
CL7-PCB-175	USEPA 1668C	0.001
CL7-PCB-176	USEPA 1668C	0.001
CL7-PCB-177	USEPA 1668C	0.001
CL7-PCB-178	USEPA 1668C	0.001
CL7-PCB-179	USEPA 1668C	0.001
CL7-PCB-180	USEPA 1668C	0.001
CL7-PCB-181	USEPA 1668C	0.001
CL7-PCB-182	USEPA 1668C	0.001
CL7-PCB-183	USEPA 1668C	0.001
CL7-PCB-184	USEPA 1668C	0.001
CL7-PCB-185	USEPA 1668C	0.001
CL7-PCB-186	USEPA 1668C	0.001
CL7-PCB-187	USEPA 1668C	0.001
CL7-PCB-188	USEPA 1668C	0.001
CL7-PCB-189	USEPA 1668C	0.001
CL7-PCB-190	USEPA 1668C	0.001
CL7-PCB-191	USEPA 1668C	0.001
CL7-PCB-192	USEPA 1668C	0.001
CL7-PCB-193	USEPA 1668C	0.001
CL8-PCB-194	USEPA 1668C	0.001
CL8-PCB-195	USEPA 1668C	0.001
CL8-PCB-196	USEPA 1668C	0.001

Table 3.3
Analytical Methods and Target Reporting Limits (Cont.)

Parameter	Analytical Method	Target Reporting Limit
CL8-PCB-197	USEPA 1668C	0.001
CL8-PCB-198	USEPA 1668C	0.001
CL8-PCB-199	USEPA 1668C	0.001
CL8-PCB-200	USEPA 1668C	0.001
CL8-PCB-201	USEPA 1668C	0.001
CL8-PCB-202	USEPA 1668C	0.001
CL8-PCB-203	USEPA 1668C	0.001
CL8-PCB-204	USEPA 1668C	0.001
CL8-PCB-205	USEPA 1668C	0.001
CL9-PCB-206	USEPA 1668C	0.001
CL9-PCB-207	USEPA 1668C	0.001
CL9-PCB-208	USEPA 1668C	0.001
CL10-PCB-209	USEPA 1668C	0.001

µg/L = micrograms per liter; ASTM = ASTM International; DDD = dichlorodiphenyldichloroethane; DDE = dichlorodiphenyldichloroethylene; DDT = dichlorodiphenyltrichloroethane; mg/L = milligrams per liter; ng/L = nanograms per liter; NTU = nephelometric turbidity units; PCB = polychlorinated biphenyl; SM = Standard Method; USEPA = United States Environmental Protection Agency

4.0 MEASUREMENT QUALITY OBJECTIVES, QUALITY ASSURANCE, AND QUALITY CONTROL

This section addresses quality assurance and quality control (QA/QC) activities associated with monitoring, including the relevant measurement quality objectives (MQOs), field QA/QC, and laboratory procedures QA/QC. This section details the methods that were used to meet the QA/QC program requirements of the SAP and PQAPP.

Appendix C provides an assessment of the QA/QC program (including MQOs). (Please refer to the SAP and PQAPP for more detailed summaries of the QA/QC program).

4.1 Measurement Quality Objectives

Data were collected to be of acceptable quality so that project objectives were achievable. Guidance for MQOs was derived from the Surface Water Ambient Monitoring Program (SWAMP) (SWRCB, 2008). The MQO definitions are as follows:

- **Precision** is the ability of an instrument to reproduce its own measurement; it measures the variability (random error) in sampling, sample handling, and analysis.
- **Accuracy** measures the closeness of an individual measurement (or an average of multiple measurements) to the true or expected value.
- **Representativeness** expresses the degree to which data accurately and precisely represent an environmental condition.
- **Comparability** expresses the confidence with which one data set can be evaluated in relation to another dataset; for this project, comparability of data is established by using standard analytical methodologies and reporting formats and by using common, traceable calibration and reference materials.
- **Completeness** measures the amount of data that is determined to be valid in proportion to the amount of data collected.
- **Sensitivity** assesses the instrument calibration low-level standard.

4.2 Field Quality Assurance and Quality Control

A daily log book was maintained per the requirements of the PQAPP. Appendix D presents the entries recorded in this log book.

Table 4-1 presents the QA/QC program elements that were conducted during this study.

Table 4-1.
Field QA/QC Program

Event Date	Site	QA/QC Element				
		Equipment Blank Sample	Field Duplicate Sample	Field Blank Sample	Temporal Contamination Measures	Composite Sample Representativeness
February 18–19, 2014	Dominguez Channel	X	—	—	X	X
	Los Angeles River	X	—	X	X	X
	Torrance Lateral	Not Sampled				
	Port Land Use(Pier A)					
	Machado Lake					
	Freshwater Lens					
February 27, 2014	Dominguez Channel	X	—	—	X	X
	Los Angeles River	X	—	—	X	X
	Torrance Lateral	Not Sampled				
	Port Land Use(Pier A)					
	Machado Lake	X	—	—	X	G
	Freshwater Lens	X	X	—	X	G
December 12–13, 2014	Dominguez Channel	X	—	—	X	X
	Los Angeles River	X	—	—	X	X
	Torrance Lateral	X	—	—	X	X
	Port Land Use (Pier A)	X	—	—	X	X
	Machado Lake	Not Sampled				
	Freshwater Lens	X	—	—	X	G
April 7, 2015	Dominguez Channel	Not Sampled				
	Los Angeles River					
	Torrance Lateral					
	Port Land Use(Pier A)	X	—	—	X	X
	Machado Lake	Not Sampled				
	Freshwater Lens					

G = grab sample

4.3 Laboratory Quality Assurance and Quality Control

The PQAPP was distributed to the analytical laboratories and provided the guidance for the laboratory QA/QC program for this study. Please refer to the PQAPP for a more detailed summary of the laboratory QA/QC program.

Table 4-2 and Table 4-3 present the PQAPP requirements for the study-specific analytes that were adhered to by the analytical laboratories.

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Table 4-2.
Analysis Frequencies for Laboratory QA/QC Samples

Analysis Type	Initial Calibration[a,b]	Continuing Calibration Verification	LCS or SRM[c]	Replicates	Matrix Spikes	Matrix Spike Duplicates	Method Blanks	Surrogate Spikes	Internal Standard
Particle Size Determination	Daily or each batch	N/A	N/A	1 per 20 samples	N/A	N/A	N/A	N/A	N/A
Total Suspended and Dissolved Solids	Daily or each batch	N/A	N/A	1 per 20 samples	N/A	N/A	N/A	N/A	N/A
Particulate Organic Carbon	Daily or each batch	1 per 10 samples	1 per 20 samples	1 per 20 samples	1 per 20 samples	N/A	Each batch	N/A	N/A
Total Metals	Daily or each batch	Per 10 analytical runs	1 per 20 samples or 1 per batch	1 per 20 samples	1 per 20 samples	N/A	Each batch	N/A	Per method
PCB Congeners by High-Resolution Method	As needed	Every 12 hours	1 per 20 samples	N/A	N/A[d]	N/A[d]	1 per 20 samples	N/A[d]	Every sample
Organochlorine Pesticides by High-Resolution Method	As needed	Every 12 hours	1 per 20 samples	N/A	N/A[d]	N/A[d]	1 per 20 samples	N/A[d]	Every sample

LCS = laboratory control sample; N/A = not applicable; PCB = polychlorinated biphenyl; SRM = standard reference material
Primary column is considered the column that contains the highest value with the least interference.
Values should have relative percent differences (RPDs) less than 40 percent or they are P flagged. Initial calibrations = 20 percent or less and Continuing Calibrations = 15 percent or less.

a. For physical tests, drying ovens and weighing scales are calibrated and certified annually.
b. Calibrations are conducted per analytical methods or the instrument manufacturer's specifications.
c. When no standard reference material is available, a laboratory control sample is analyzed.
d. The isotope dilution quantitation technique accounts for matrix interferences, so no matrix spikes/matrix spike duplicates are required.

Table 4-3.
Laboratory Data Quality Objectives

Parameter	Precision[a]	Accuracy[b]	Completeness[c]
Particle Size Determination	± 25% RPD	N/A	90%
Total Suspended and Dissolved Solids	± 25% RPD	N/A	90%
Particulate Organic Carbon	± 25% RPD	80–120% R	90%
Total and Dissolved Metals	± 25% RPD	75–125% R	90%
Organochlorine Pesticides[d]	± 25% RPD	50–150% R	90%
Polychlorinated Biphenyl Congeners[d]	± 25% RPD	50–150% R	90%

% = percent; PCB = polychlorinated biphenyl; RPD = relative percent difference; R = Recovery
a. Not applicable if native concentration of either sample is greater than the reporting limit.
b. Laboratory control sample, certified reference material, and matrix spike/matrix spike duplicate percentage recovery.
c. Percentage of each class of analytes that are not rejected after data validation, conducted in accordance with the Technical Support Manual (Bay et al., 2009).
d. The accuracy goal is 70–130 percent recovery if certified reference material is used.

5.0 RESULTS

This section presents the flow, in-situ, and analytical results. Field data sheets are provided in Appendix E.

5.1 Dry Weather Event—February 18–19, 2014

A dry weather event was monitored on February 18–19, 2014.

5.1.1 Flow Estimations—Dry Event

The total recorded flow volume and percentage captured during the dry weather sampling event are presented in Table 5-1. Monitoring event hydrographs are presented in Figure 5-1 and Figure 5-2 for monitoring sites DC and LAR, respectively. Flow estimates are presented in tabular form in Appendix F.

Table 5-1.
Total Recorded Flow—Dry Event

Site	Dry Weather Event Recorded Flow (cubic feet [cf])	Monitored Event Flow (cf)	Capture
Dominguez Channel	566,612	566,612	100%
Los Angeles River	23,117,152	23,117,152	100%

The rating curves developed and used by Amec Foster Wheeler for monitoring sites DC and LAR are considered robust, defensible, and sufficient for flow estimation and use in collecting flow-weighted composite samples. However, Amec Foster Wheeler considers LACFCD flow data to be more robust and more defensible; this is based on the following.

- The rating curves used by Amec Foster Wheeler to conduct this monitoring event were based on historical LACFCD gauging station data.
- Amec Foster Wheeler installed a temporary gauging station collocated with the existing LACFCD permanent gauging station in an attempt to mimic those gauging stations.

Thus, Amec Foster Wheeler advises that, if available, LACFCD flow data should be used instead of the flow data contained within this report.

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Figure 5-1. DC Dry Event Hydrograph

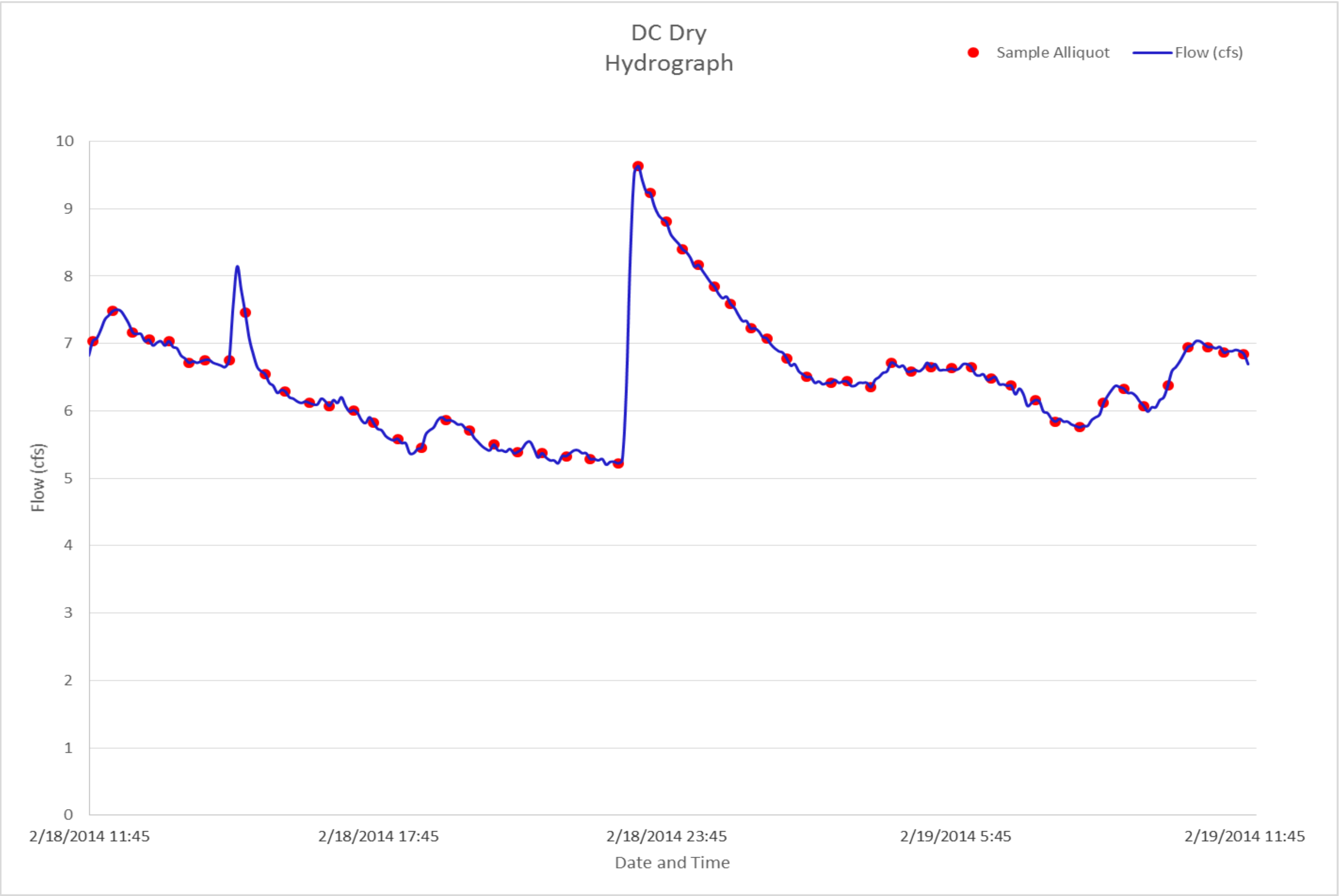

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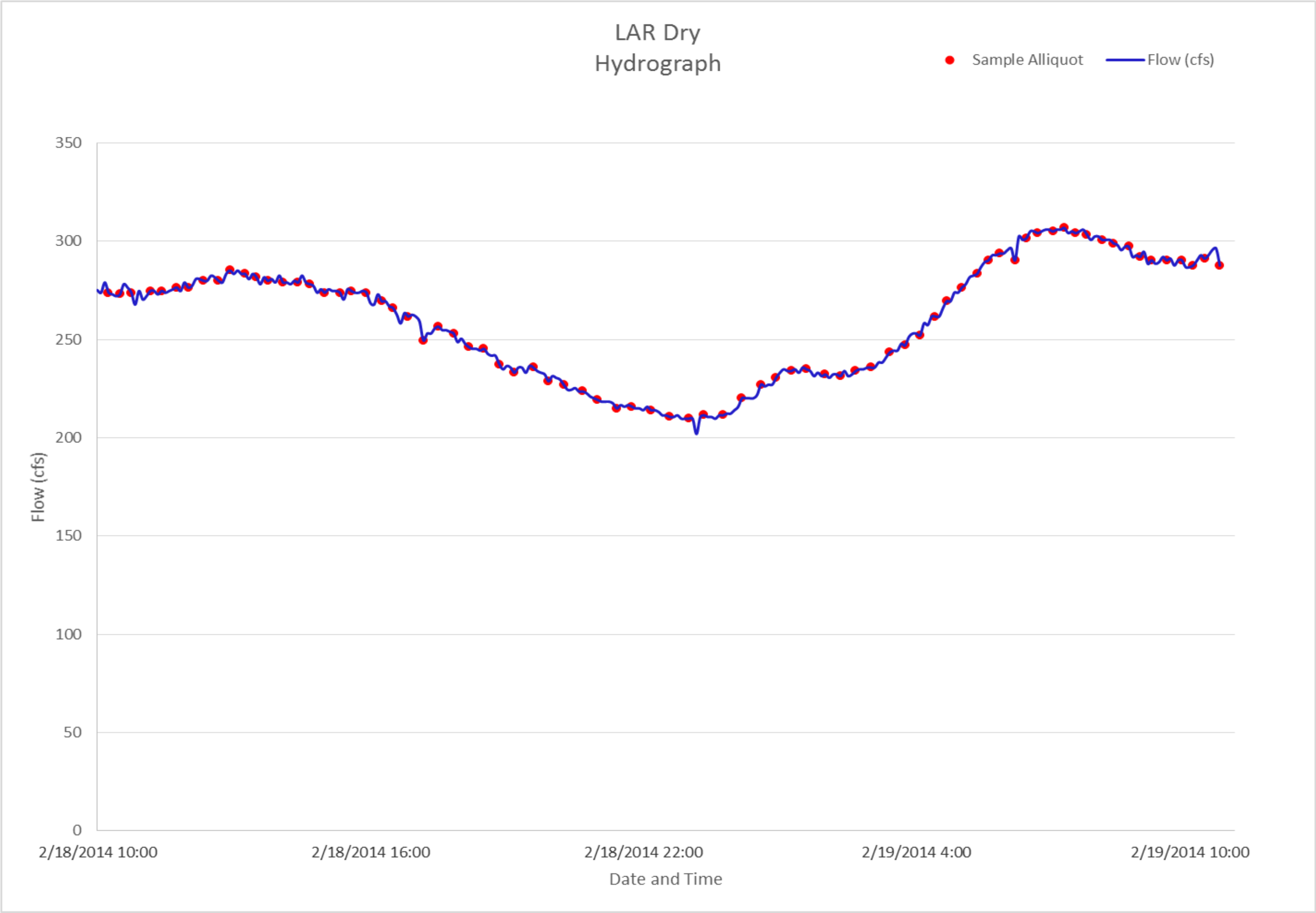
Figure 5-2. LAR Dry Event Hydrograph



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5.1.2 Reported Rainfall—Dry Event

Per the SAP, no site-specific or event-specific rainfall data were collected. Third-party rainfall data (from the Los Angeles County Department of Public Works [LACDPW] and the National Weather Service [NWS]) were obtained by Everest and used for this study.

For the Dry Event, the most recent recorded rainfall at the Long Beach Airport NWS[2] rain gauge occurred on February 6–7, 2014. This rain gauge is assumed to represent rainfall in the lower watershed of the study area; it recorded 0.18 inches of rainfall. The most recent recorded rainfall at the Downtown Los Angeles NWS rain gauge occurred on February 6, 2014. This rain gauge is assumed to represent rainfall in the upper watershed of the study area; it recorded 0.09 inches of rainfall.

5.1.3 In-Situ Water Quality Results—Dry Event

Temperature, pH, dissolved oxygen, and turbidity data were collected every 15 minutes during the dry weather monitoring event. In-situ water quality monitoring results are presented in Figure 5-3 through Figure 5-10.

No conductivity data were collected during the dry weather monitoring event. The conductivity probe is significantly shorter than the other probes in the YSI 6600 V2 array. The balance between the security of the sonde and the safety of Amec Foster Wheeler staff during installation of the sonde dictated where the sonde could be installed, and so limited the collection of conductivity data to storm flows only. The DC and LAR monitoring sites are located above tidal influence, so samples are considered to represent freshwater flow from the Dominguez Channel and Los Angeles River, respectively.

Sonde data in tabular form are presented as Appendix G. Sonde calibration logs are provided in Appendix H.

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[2] http://www.nws.noaa.gov/climate/index.php?wfo=lox, accessed on June 13, 2014.

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Figure 5-3. DC Dry Event Temperature

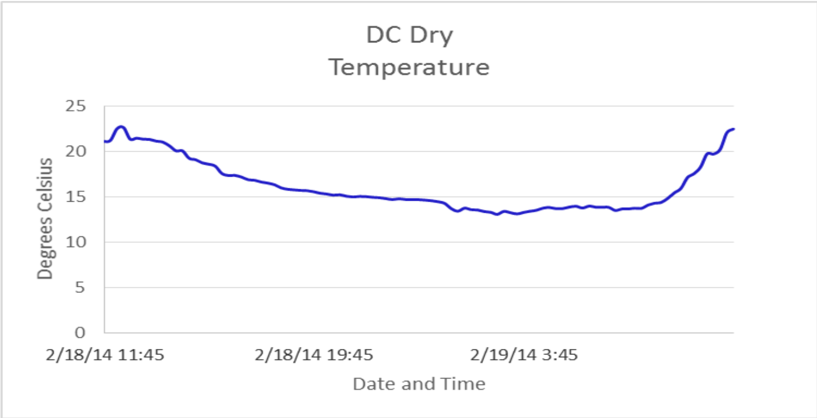


Figure 5-4. DC Dry Event Dissolved Oxygen

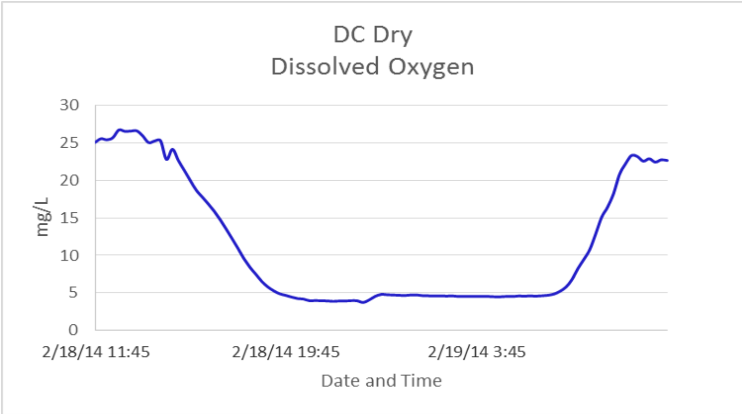


Figure 5-5. DC Dry Event pH

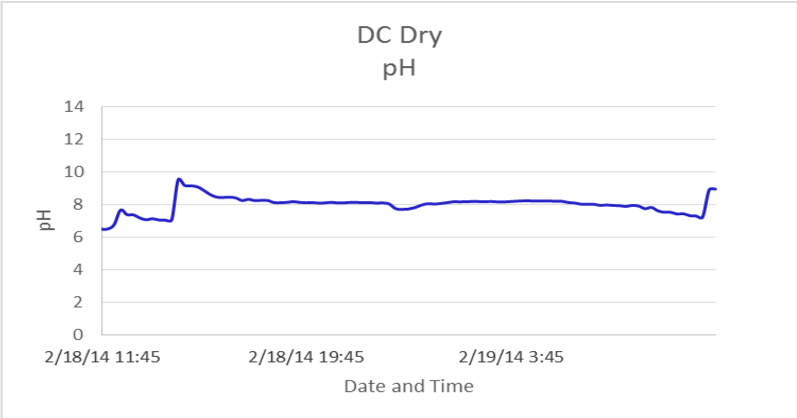
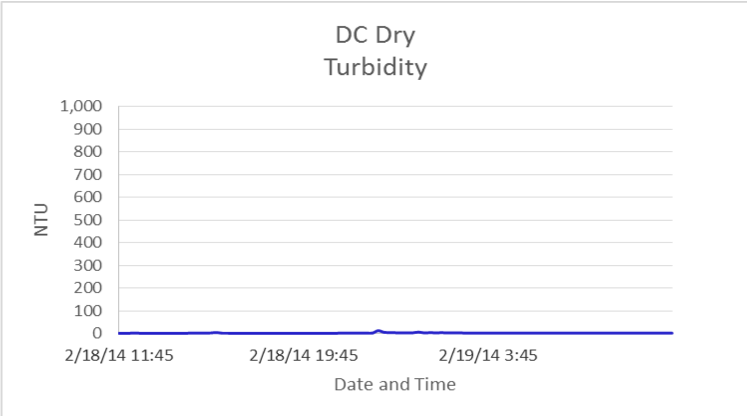


Figure 5-6. DC Dry Event Turbidity



Note: Water depth was insufficient to measure conductivity.

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Figure 5-7. LAR Dry Event Temperature

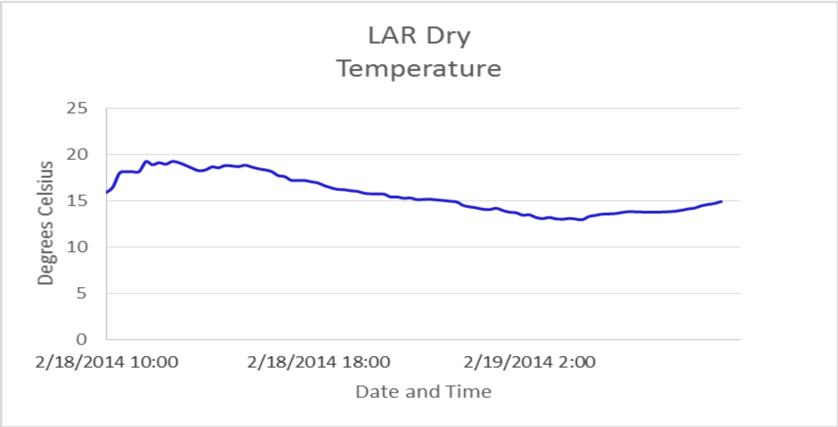


Figure 5-8. LAR Dry Event Dissolved Oxygen

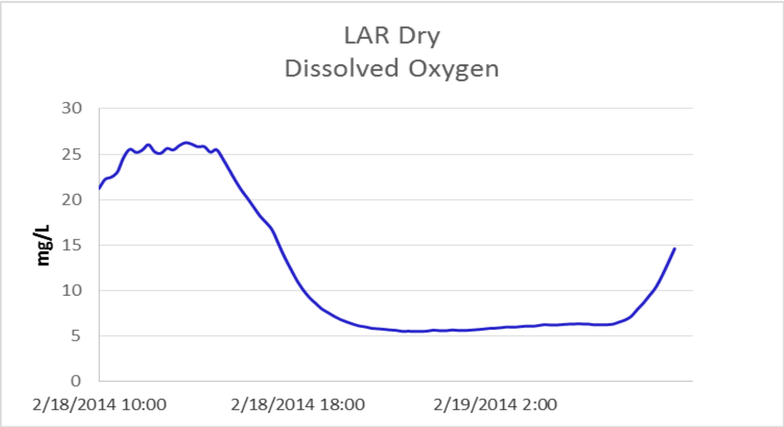
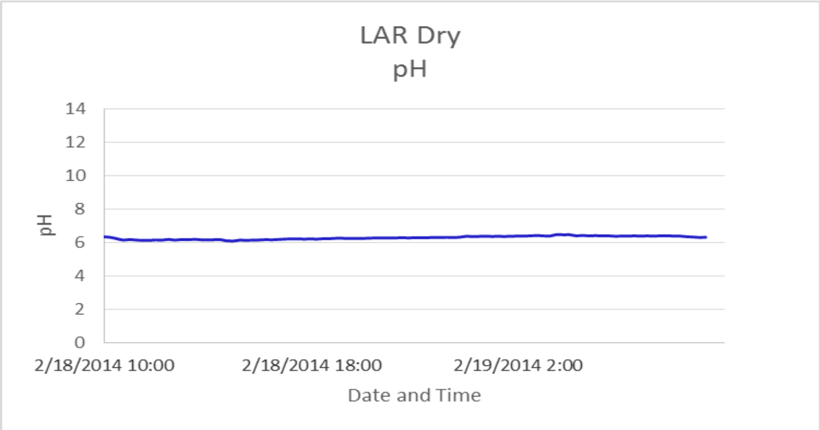
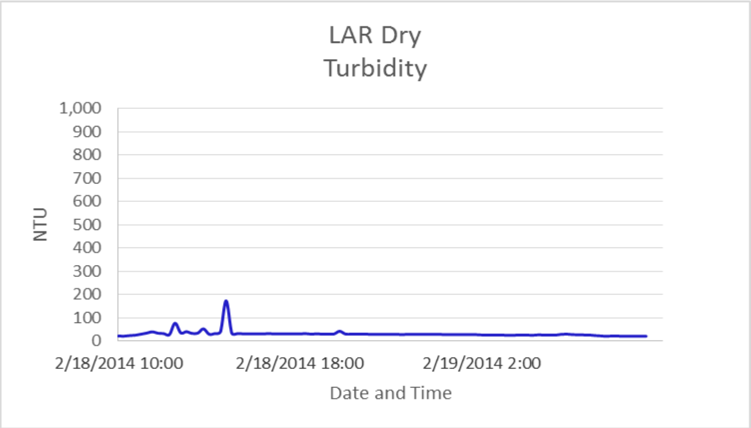


Figure 5-9. LAR Dry Event pH



Note: Water depth was insufficient to measure conductivity.

Figure 5-10. LAR Dry Event Turbidity



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5.1.4 Analytical Results—Dry Event

Analytical laboratory results for the Dry Event are presented in Table 5-2. Copies of the analytical laboratory reports and chain-of-custody forms are provided in Appendix I.

Table 5-2.
Analytical Laboratory Results—Dry Event

Analyte	Site	
	DC	LAR
Total and Dissolved Metals (µg/L)		
Total Cadmium	0.141	0.159
Dissolved Cadmium	0.094	0.114
Total Chromium	0.70	1.54
Dissolved Chromium	0.55	0.58
Total Copper	14.365	11.690
Dissolved Copper	11.615	6.169
Total Lead	0.579	3.296
Dissolved Lead	0.245	0.227
Total Zinc	27.87	91.74
Dissolved Zinc	22.27	24.92
Total and Dissolved Mercury (ng/L)		
Total Mercury	3.5	4.3
Dissolved Mercury	1.9	<0.5
General Chemistry		
Total Suspended Solids (mg/L)	3.4	85
Turbidity (NTU)	2.3	5.4
Particulate Organic Carbon (µg/L)	1,134	10,157
Particle Size		
Mean Grain Size (mm)	NM	0.111
Particle Size Distribution (weight by percentage):		
Total Gravel (2,000–4,000 µm)	NM	0.00
Very Coarse Sand (1,000–2,000 µm)	NM	0.00
Coarse Sand (500–1,000 µm)	NM	3.08
Medium Sand (250–500 µm)	NM	4.34
Fine Sand (125—250 µm)	NM	20.45
Very Fine Sand (62.5–125 µm)	NM	33.77
Silt (3.91–62.5 µm)	NM	36.50
Clay (0.04–3.91 µm)	NM	1.86
Total Silt and Clay	NM	38.36
DDT (pg/L)		
Reported Total DDT (less-than values are not included)	**411**	**1,076**
Potential Total DDT (less-than values are included)	**<489**	**<1,106**
2,4'-DDE	6.59 J	14.8 J
4,4'-DDE	230	578
2,4'-DDD	16.8	34.2
2,4'-DDT	22.1	62.7

Table 5-2.
Analytical Laboratory Results—Dry Event (Cont.)

Analyte	Site	
	DC	LAR
4,4'-DDD	37.5	93.4
4,4'-DDT	98.3	293
4,4'-DDMU	<78.4 D	<30.3
PCB (pg/L)		
Reported Total PCB (less-than values are not included)	**1,140 B**	**3,380 B**
Potential Total PCB (less-than values are included)	**<1,197**	**<3,402**
PCB-1	1.66	2.55
PCB-2	0.709 J	3.75
PCB-3	1.01	4.55
PCB-4/10	3.03 J	2.94 J
PCB-5/8	6.91	11.8
PCB-6	1.21 J	2.71
PCB-7/9	<1.57	<1.21
PCB-11	122 B	175 B
PCB-12/13	<1.56	<1.35
PCB-14	<1.31	<1.13
PCB-15	4.55	7.69
PCB-16/32	4.82 B	8.03 B
PCB-17	3.04	5.67
PCB-18	8.05 B	14.9 B
PCB-19	0.876 J	1.34
PCB-20/21/33	4.38	14
PCB-22	3.25	9.7
PCB-23	<0.28	<0.353
PCB-24/27	0.677 J	1.29 J
PCB-25	0.643 J	2.84
PCB-26	1.85	5.47
PCB-28	9.46	24
PCB-29	<0.306	<0.386
PCB-30	<0.173	<0.166
PCB-31	8.62 B	24.7 B
PCB-34	<0.312	<0.392
PCB-35	1.22	2.59
PCB-36	<0.399	<0.388
PCB-37	3.35	10.9
PCB-38	<0.381	<0.37
PCB-39	<0.385	<0.374
PCB-40	3.17	7.37
PCB-41/64/71/72	13.1 B	37.6 B
PCB-42/59	4.22 B	13.5 B
PCB-43/49	12.4	33.5
PCB-44	18.2 B	43.7 B
PCB-45	<2.05	4.63

Table 5-2.
Analytical Laboratory Results—Dry Event (Cont.)

Analyte	Site	
	DC	LAR
PCB-46	1.14	2.32
PCB-47	5.17 B	12.9 B
PCB-48/75	2.58	6.02
PCB-50	<0.335	<0.404
PCB-51	<0.714	1.53
PCB-52/69	26.7 B	54.9 B
PCB-53	2.24	4.09
PCB-54	<0.296	<0.304
PCB-55	<0.315	1.33
PCB-56/60	12.4 B	35.5 B
PCB-57	<0.268	0.398 J
PCB-58	<0.283	<0.263
PCB-61/70	26 B	62.6 B
PCB-62	<0.272	<0.335
PCB-63	0.647 J	2.56
PCB-65	<0.27	<0.333
PCB-67	<0.296	2.07
PCB-68	<0.244	0.722 J
PCB-73	<0.252	<0.342
PCB-74	7.54	22.1
PCB-76/66	14.5 B	45 B
PCB-77	4.18 B	10.2 B
PCB-78	<0.396	<0.387
PCB-79	1.01	2.1
PCB-80	<0.282	<0.305
PCB-81	0.207 J	0.278 J
PCB-82	7.93	14.7
PCB-83	<0.714	<0.471
PCB-84/92	24.6	48
PCB-85/116	8.85	20.4
PCB-86	<1.1	0.431 J
PCB-87/117/125	21.6	44.8
PCB-88/91	6.48	13.5
PCB-89	<1	1.43
PCB-90/101	59.5	141
PCB-93	<0.886	<0.633
PCB-94	<0.894	<0.639
PCB-95/98/102	38.8 B	87.2 B
PCB-96	<0.631	0.565 B
PCB-97	16.7	33.7
PCB-99	22.3	46.7
PCB-100	<0.682	<0.454
PCB-103	<0.733	0.863 J
PCB-104	<0.535	<0.356

Table 5-2.
Analytical Laboratory Results—Dry Event (Cont.)

Analyte	Site	
	DC	LAR
PCB-105	20.2	46
PCB-106/118	58.1 B	114 B
PCB-107/109	4.55	8.07
PCB-108/112	3.1	5.85
PCB-110	60.8	140
PCB-111/115	1.05 J	2.68
PCB-113	<0.713	0.797 J
PCB-114	1.2	2.83
PCB-119	0.705 J	1.95
PCB-120	<0.626	0.63 J
PCB-121	<0.6	<0.428
PCB-122	<1.11	1.4
PCB-123	<1.38	3.05
PCB-124	2.84	6.54
PCB-126	<1.38	2.98
PCB-127	<1.26	<1.46
PCB-128/162	12	28.1
PCB-129	3.85	7.84
PCB-130	4.52	11.4
PCB-131	<0.89	<0.939
PCB-132/161	16.3	47.6
PCB-133/142	1.97 J	4.35
PCB-134/143	3.17	8.49
PCB-135	7.5	28.7
PCB-136	6.59	28.3
PCB-137	3.93	6.97
PCB-138/163/164	67.6	206
PCB-139/149	41.1	167
PCB-140	<0.897	<0.818
PCB-141	12.3	46.7
PCB-144	2.92	11.4
PCB-145	<0.582	<0.53
PCB-146/165	8.23	26.1
PCB-147	<0.82	2.56
PCB-148	<0.816	<0.743
PCB-150	<0.598	<0.545
PCB-151	10.7	54.4
PCB-152	<0.584	<0.532
PCB-153	51.3	189
PCB-154	<0.759	1.41
PCB-155	<0.557	<0.451
PCB-156	6.98	19.3
PCB-157	2.15	4.72
PCB-158/160	7.82	23.4

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Table 5-2.
Analytical Laboratory Results—Dry Event (Cont.)

Analyte	Site	
	DC	LAR
PCB-159	<0.837	<0.687
PCB-166	<0.811	0.682 J
PCB-167	3.42	9.32
PCB-168	<0.573	<0.605
PCB-169	<1	<0.811
PCB-170	16.6	87
PCB-171	<4.35	20.4
PCB-172	3.76	15.1
PCB-173	<0.603	1.93
PCB-174	16.8	73.5
PCB-175	0.891 J	4.01
PCB-176	1.71	10.1
PCB-177	9.97	45.1
PCB-178	3.56	19.6
PCB-179	6.1	36.3
PCB-180	35.1	181
PCB-181	<0.489	<0.371
PCB-182/187	19.2	104
PCB-183	8.74	47.2
PCB-184	<0.376	1.07
PCB-185	2.13	9.17
PCB-186	<0.351	<0.258
PCB-188	<0.322	<0.237
PCB-189	<0.624	<3.14
PCB-190	3.41	17.4
PCB-191	<0.413	3.54
PCB-192	<0.432	<.0.328
PCB-193	1.98	10.5
PCB-194	6.41	43.9
PCB-195	2.68	16.4
PCB-196/203	8.64	46.2
PCB-197	<0.776	2.1
PCB-198	<1.11	2.35
PCB-199	7.79	40.8
PCB-200	<0.804	5.73
PCB-201	<0.955	6.13
PCB-202	<2.51	9.17
PCB-204	<0.817	<0.599
PCB-205	<1.2	2.29
PCB-206	4.16	24.5
PCB-207	<0.794	3.84
PCB-208	1.29	7.04
PCB-209	<2.25	13.1

μg = micrograms; μm = micrometers; B = compound was also measured in the method blank; D = dilution; DC = Dominguez Channel; J = amount detected is below the low calibration limit; L = liter; LAR = Los Angeles River; mm = millimeters; ng = nanograms; NM = not measured (insufficient particle volume in sample for analysis); NTU = nephelometric turbidity units; PCB = polychlorinated biphenyl; pg = picograms

5.2 Storm Event 1—February 26–27, 2014

A storm event was monitored on February 26–27, 2014.

5.2.1 Flow Estimations—Storm Event 1

The total recorded flow volume and percentage captured during the storm sampling event are presented in Table 5-3. Monitoring event hydrographs are presented in Figure 5-11 through Figure 5-14 for monitoring sites DC, LAR, TL, and PLU, respectively.

Monitoring sites TL and PLU were not sampled during this storm monitoring event, but flow was estimated to build a rainfall-to-runoff correlation to aid in properly pacing samples during later monitoring events. Please note that the DC and LAR hydrographs illustrate monitoring conducted during the first impulse of a four-day storm system, whereas the TL and PLU hydrographs illustrate flow throughout the entire four-day period.

Table 5-3.
Total Recorded Flow—Storm Event 1

Site	Storm Event 1 Recorded Flow (cf)	Monitored Event Flow (cf)	Capture
Dominguez Channel	17,063,000	16,460,000	96.5%
Los Angeles River	226,508,000	217,034,000	95.8%
Torrance Lateral	15,186,152 (4 days)	N/A	N/A
Port Land Use	146,473 (4 days)	N/A	N/A
Machado Lake	Grab sample; no flow recorded	N/A	N/A
Freshwater Lens	Grab sample; no flow recorded	N/A	N/A

N/A = not applicable

Figure 5-11. DC Storm Event 1 Hydrograph

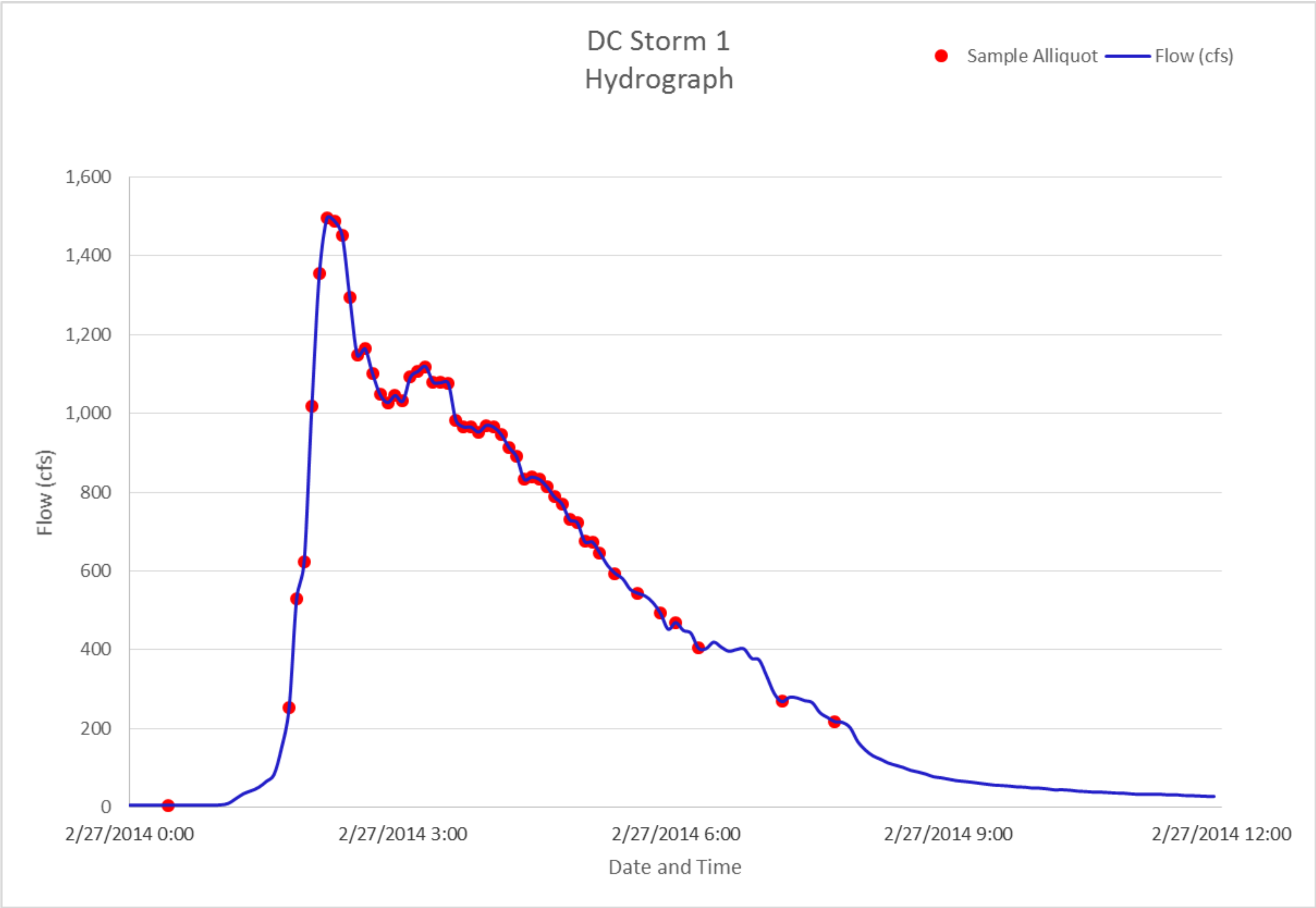

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Figure 5-12. LAR Storm Event 1 Hydrograph

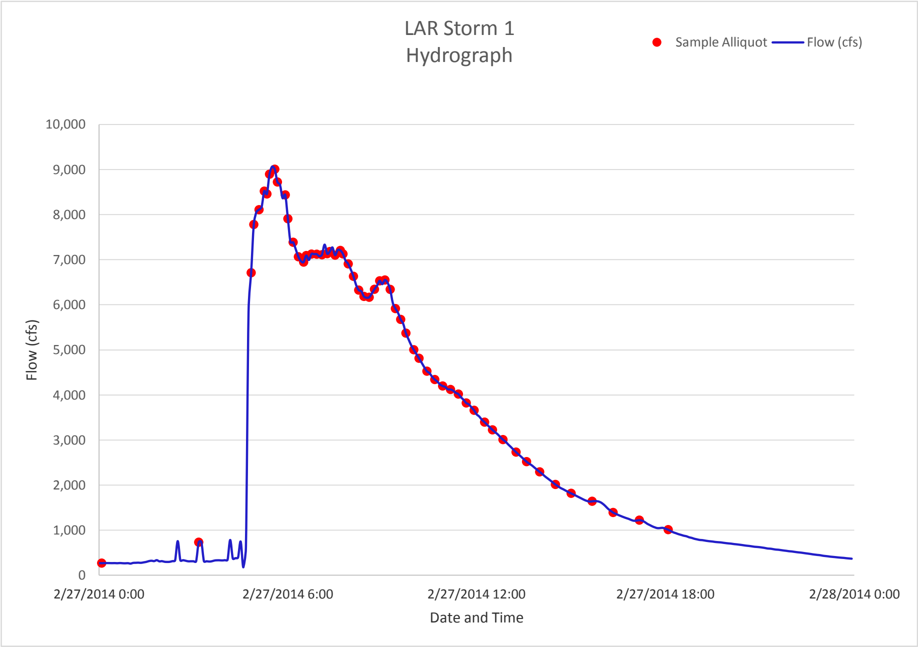

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Figure 5-13. TL Storm Event 1 Hydrograph

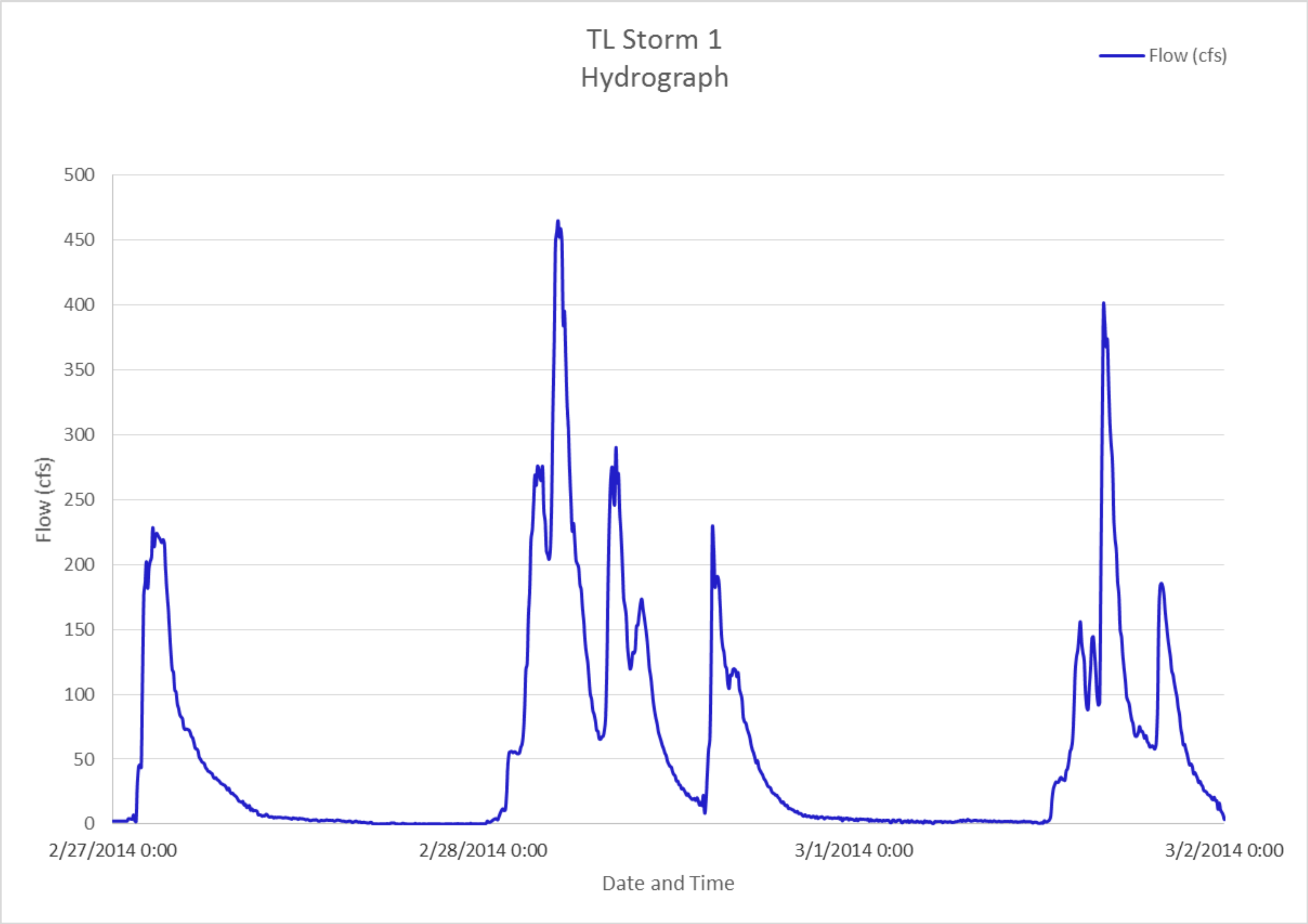

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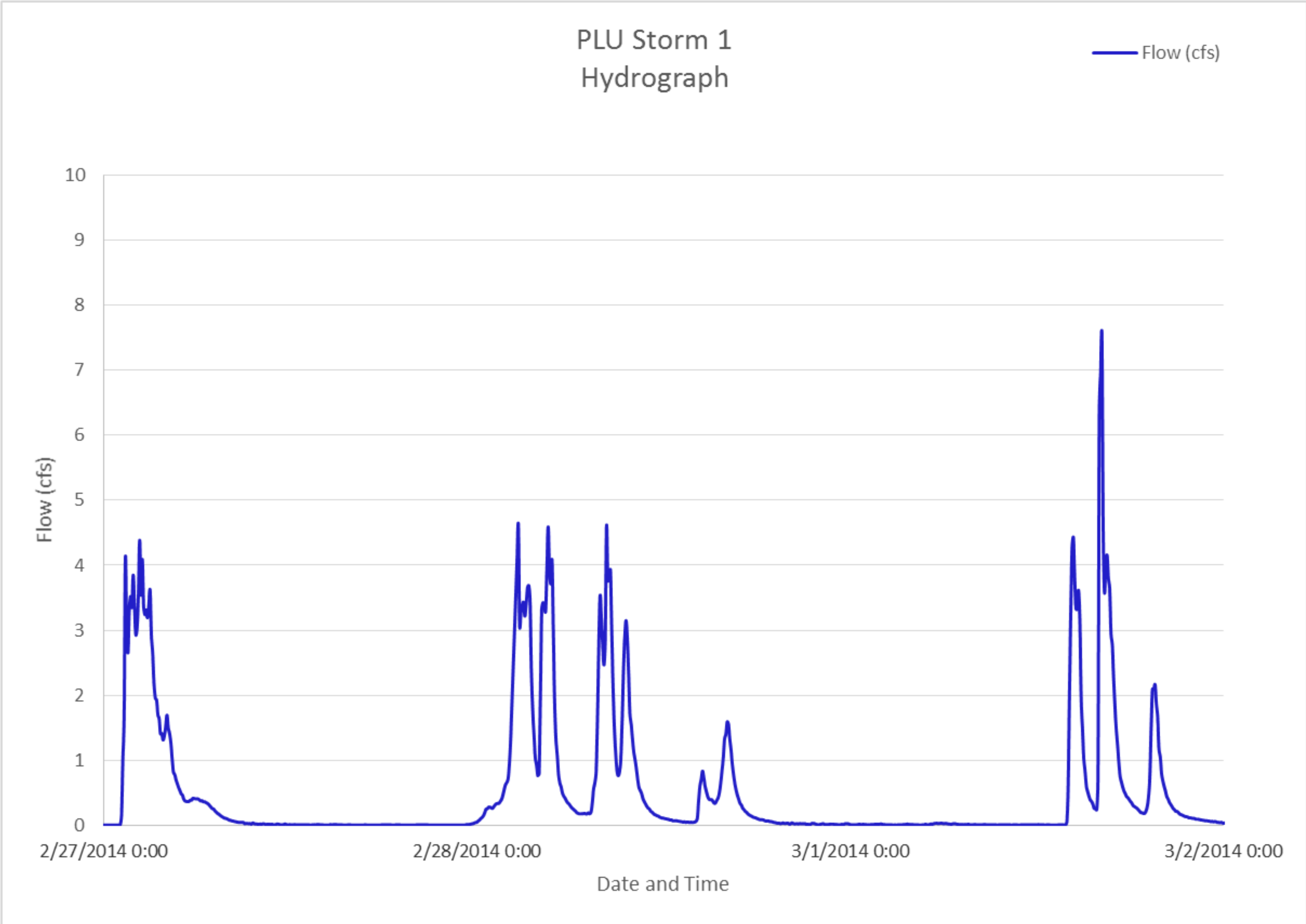
Figure 5-14. PLU Storm Event 1 Hydrograph



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5.2.2 Reported Rainfall—Storm Event 1

Table 5-4 presents NWS-reported rainfall totals[3] for the lower watershed study area (Long Beach Airport) and middle watershed study area (Los Angeles Airport and Downtown Los Angeles). The data in this report represent the first of a series of storm fronts that occurred February 26-27, 2014, from a large area of low pressure. Additional storm fronts from this low-pressure system continued to affect the study area until March 2, 2014.

Table 5-4.
Percent Capture of Rainfall—Storm Event 1

NWS Rain Gauge	Rainfall (inches)							
	February 26, 2014	February 27, 2014	February 28, 2014	March 1, 2014	March 2, 2014	Storm Total	Monitored Rainfall	Percent Captured (Monitored Storm Front / Low-Pressure System)
Long Beach Airport[a]	0.00	0.85	1.20	0.29	0.15	2.49	0.81[b]	95% / 33%
Los Angeles Airport[a]	0.06	0.94	1.56	0.35	T	2.91	0.94[b]	94% / 32%
Downtown Los Angeles[a]	0.06	1.05	2.24	1.00	0.17	4.52	1.05[b]	95% / 23%

NWS = National Weather Service; T = trace amount of rainfall
a. Data reported are from http://www.nws.noaa.gov/climate/index.php?wfo=lox, accessed on July 2, 2014.
b. Data reported are from http://www.cnrfc.noaa.gov/precipMaps.php?group=la&hour=1&synoptic=0, accessed on February 27, 2014, at 0600.
Gray shading represents the portion of the low-pressure system that was monitored.

5.2.3 In-Situ Water Quality Results—Storm Event 1

Temperature, pH, electrical conductivity, dissolved oxygen, and turbidity were measured every 15 minutes during the monitoring event. In-situ water quality monitoring results are presented in Figure 5-15 through Figure 5-24.

Electrical conductivity of the freshwater lens recorded during the collection of the grab sample at monitoring site FWL was 260 µS/cm at approximately 6 inches deep, indicating the sample was freshwater. The depth of the freshwater lens was not measured.

[3] http://www.nws.noaa.gov/climate/index.php?wfo=lox, accessed on June 16, 2014.

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Figure 5-15. DC Storm Event 1 Temperature

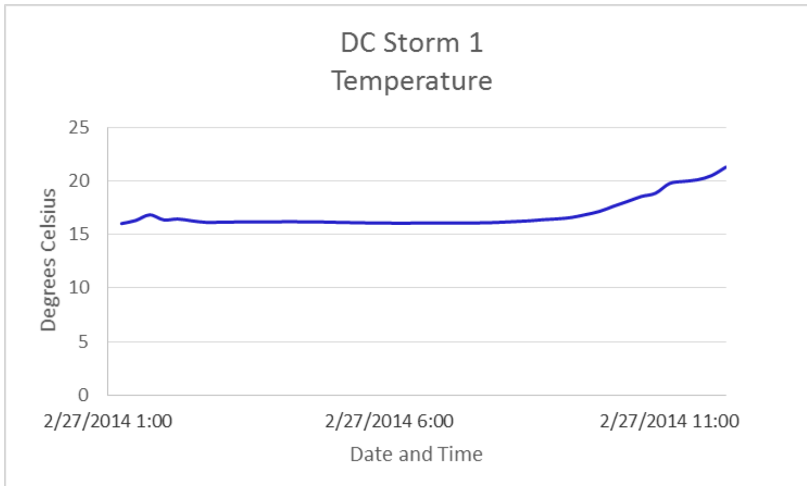

Figure 5-16. DC Storm Event 1 Conductivity

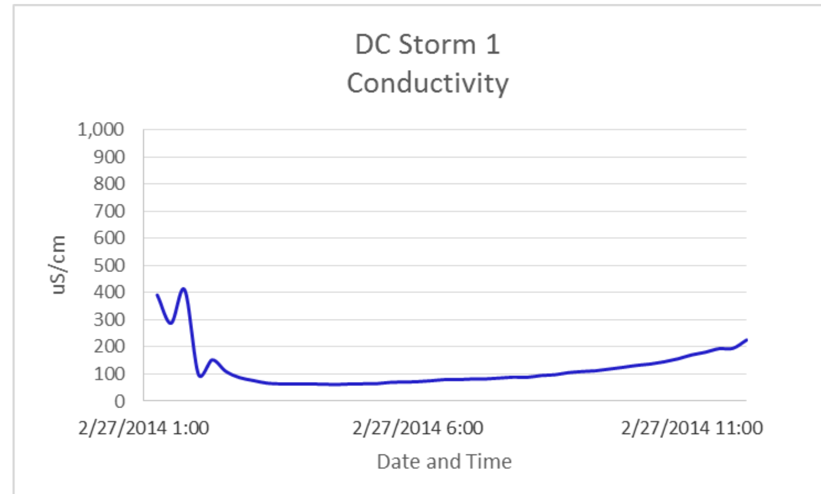

Figure 5-17. DC Storm Event 1 Turbidity

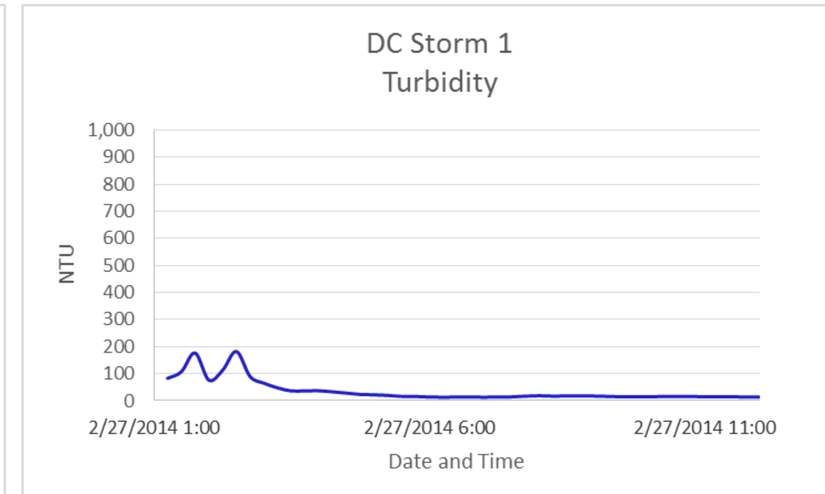

Figure 5-18. DC Storm Event 1 pH

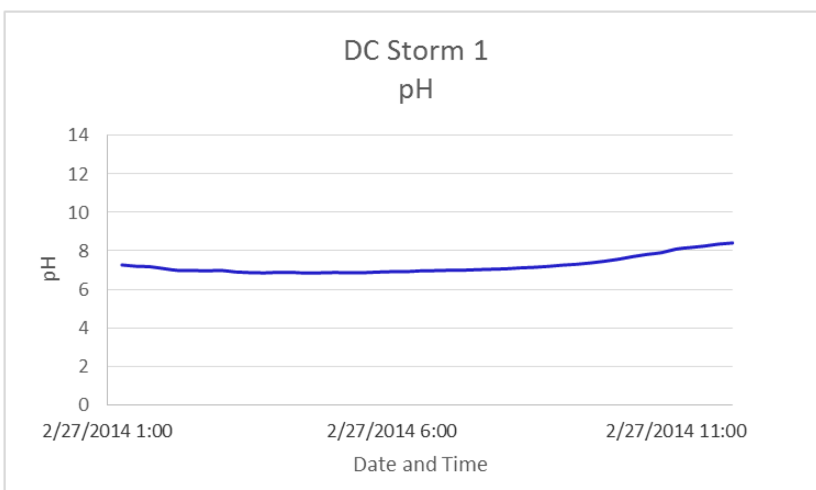

Figure 5-19. DC Storm Event 1 Dissolved Oxygen

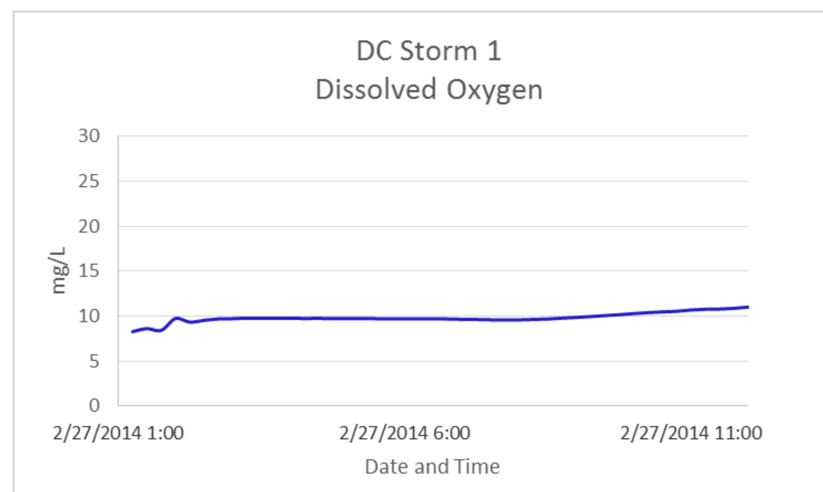

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Figure 5-20. LAR Storm Event 1 Temperature

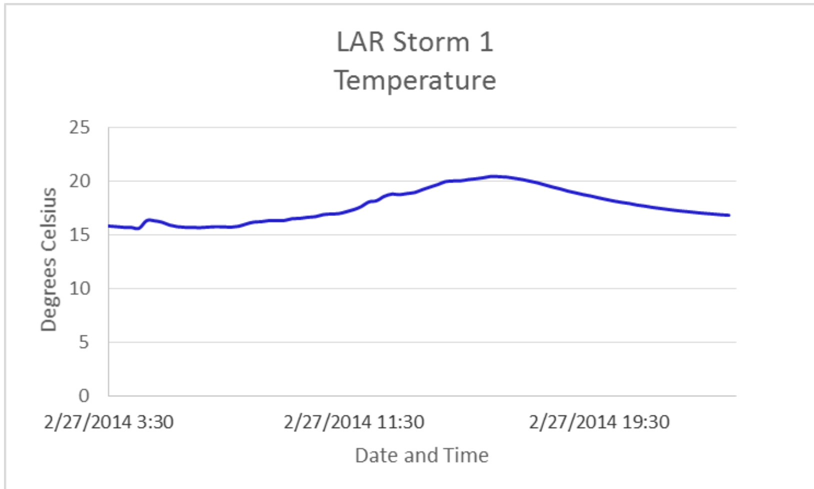


Figure 5-21. LAR Storm Event 1 Conductivity

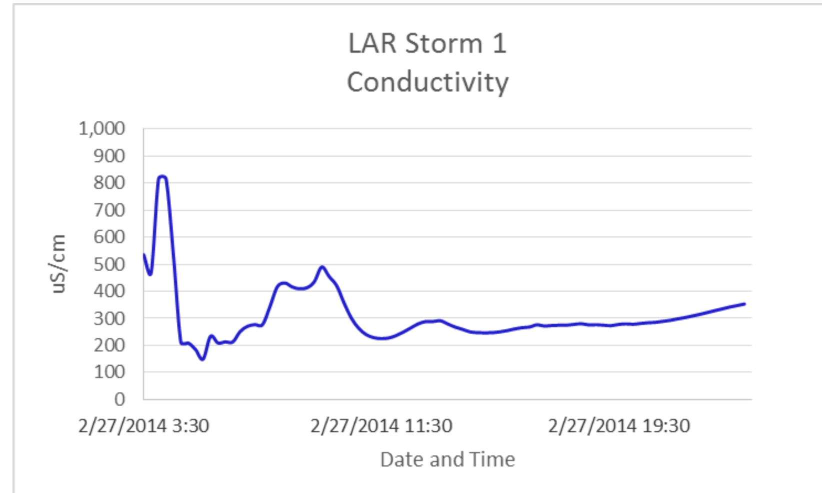


Figure 5-22. LAR Storm Event 1 Turbidity

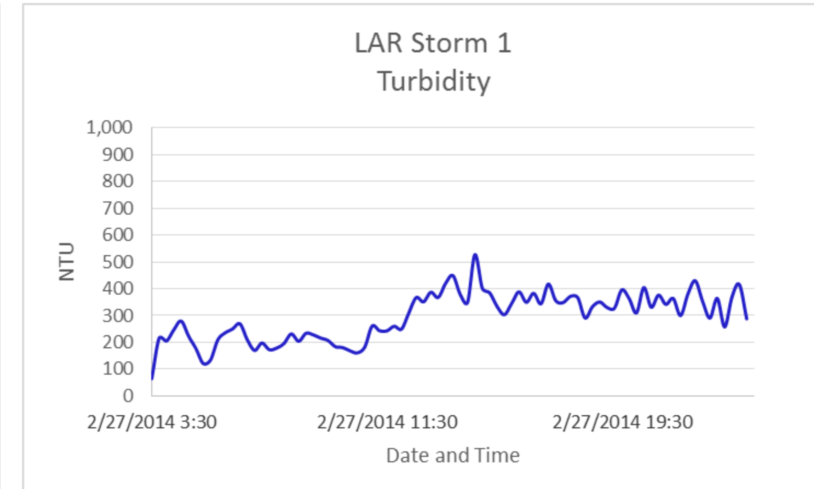


Figure 5-23. LAR Storm Event 1 pH

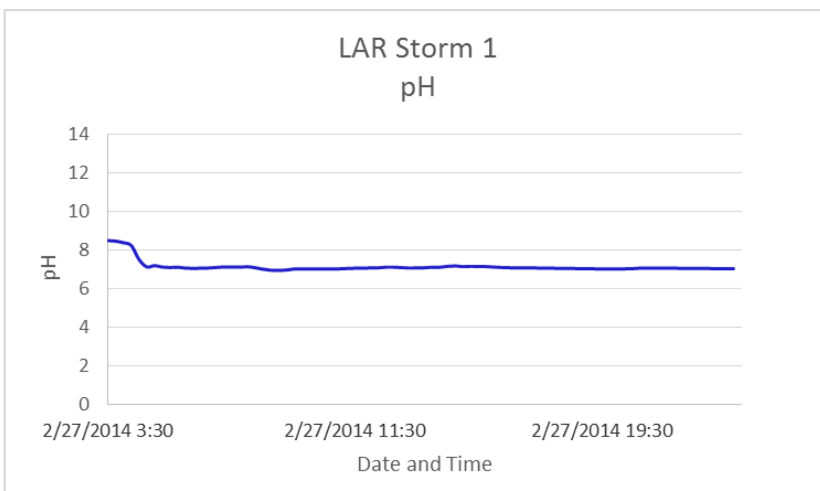
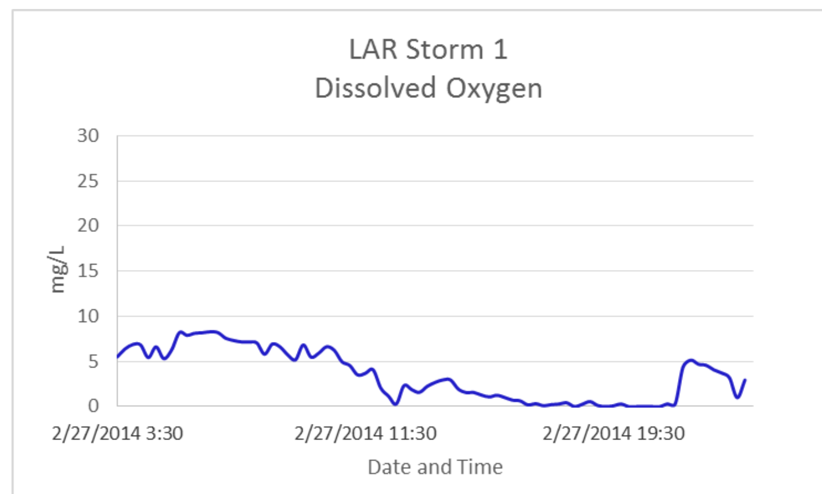


Figure 5-24. LAR Storm Event 1 Dissolved Oxygen



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5.2.4 Analytical Results—Storm Event 1

Analytical laboratory results from Storm Event 1 are presented in Table 5-5.

Table 5-5.
Analytical Laboratory Results—Storm Event 1

Analyte	Site			
	DC	LAR	FWL	ML
Total and Dissolved Metals (µg/L)				
Total Cadmium	0.512	0.731	0.269	0.461
Dissolved Cadmium	0.051	0.043	0.137	0.247
Total Chromium	2.83	6.59	1.93	1.30
Dissolved Chromium	0.61	0.71	0.44	0.64
Total Copper	47.036	51.516	26.922	19.348
Dissolved Copper	12.471	7.343	12.456	20.617
Total Lead	16.667	31.531	8.246	5.497
Dissolved Lead	0.537	0.902	1.135	1.168
Total Zinc	324.47	437.39	165.88	111.99
Dissolved Zinc	115.04	56.83	91.89	73.77
Total and Dissolved Mercury (ng/L)				
Total Mercury	6.6	4.4	8.5	4.3
Dissolved Mercury	1.2	1.6	3	1.4
General Chemistry				
Total Suspended Solids (mg/L)	80	157	36	6
Turbidity (NTU)	22	45	24	6.8
Particulate Organic Carbon (µg/L)	9,718	22,683	5,455	5,455
Particle Size				
Mean Grain Size (mm)	0.054	0.118	0.017	0.05
Particle Size Distribution (weight by percentage):				
Total Gravel (2,000–4,000 µm)	0.00	0.00	0.00	0.00
Very Coarse Sand (1,000–2,000 µm)	0.00	0.05	0.00	0.00
Coarse Sand (500–1,000 µm)	0.00	6.75	0.00	0.00
Medium Sand (250–500 µm)	2.55	5.98	0.00	0.00
Fine Sand (125–250 µm)	8.60	10.19	0.00	4.86
Very Fine Sand (62.5–125 µm)	14.46	18.63	0.08	31.83
Silt (3.91–62.5 µm)	68.10	54.71	85.68	56.59
Clay (0.04–3.91 µm)	6.30	3.68	14.24	6.79
Total Silt and Clay	74.39	58.40	99.92	63.32
DDT (pg/L)				
Reported Total DDT (not including less-than values)	**25,619**	**20,232**	**55,591**	**1,243**
Potential Total DDT (including less-than values)	**<25,701**	**20,232**	**55,591**	**<1,282**
2,4'-DDE	224	299	717	14.4 J
4,4'-DDE	5,370 B, D	7,550 B, D	19,700 B, D	393 B
2,4'-DDD	233	830	4,080 D	45.4

Table 5-5
Analytical Laboratory Results—Storm Event 1 (Cont.)

Analyte	Size			
	DC	LAR	FWL	ML
4,4'-DDD	862	2,420 D	4,990 E	153
4,4'-DDT	17,800 D	7,290 D	20,900 D	540
4,4'-DDMU	<82.6	403	924	<38.7
PCB (pg/L)				
Reported Total PCB (less than values not included)	**20,300 B**	**37,400 B**	**12,300 B**	**1,190 B**
Potential Total PCB (less than values included)	**<20,601**	**<37,909**	**<12,629**	**<1,458**
PCB-1	2.7 J	6.18	4.81 J	1.67 J
PCB-2	3.71 J	4.71 J	2.14 J	2.13 J
PCB-3	3.3 J	6.27	2.64 J	1.75 J
PCB-4/10	7.92 J	37.2	23.8	7.04 J
PCB-5/8	35.3	153	47.2	24.4
PCB-6	7.87 J	28.7	11	<9.87
PCB-7/9	<9.14	12.6 J	6.53 J	<9.75
PCB-11	657 B	671 B	397 B	136 B
PCB-12/13	<9.97	15 J	<6.52	<9.82
PCB-14	<8.34	<7.66	<5.46	<8.22
PCB-15	46.2	122	36.9	8.89 J
PCB-16/32	109	204 D	81.7	11.9
PCB-17	39.6	107 D	36.2	6.19
PCB-18	105	261 D	90.9	16.9
PCB-19	16.5	33.1 D	11.5	<2.62
PCB-20/21/33	108	226 D	63.5	12.4 J
PCB-22	105	188 D	64.6	6.53
PCB-23	<2.52	<9.05	<2.85	<2.39
PCB-24/27	14.9	29 J, D	10.4	<0.828
PCB-25	13.7	43 D	9.84	<2.62
PCB-26	28.8	72.5 D	18.6	<2.73
PCB-28	222	427 D	145	12.8
PCB-29	<2.75	<9.9 D	<3.12	<2.61
PCB-30	<1.23	<3.83 D	<1.25	<0.846
PCB-31	161	370 D	132	16.4
PCB-34	<2.8	<10.1 D	<3.17	<2.66
PCB-35	23.3	30 D	<9.66	<2.5
PCB-36	<3.72	<8.27 D	<2.84	<2.45
PCB-37	123	224 D	70.6	6.36
PCB-38	7.26	<7.89 D	<2.71	<2.34
PCB-39	<3.59	<7.97 D	<2.74	<2.37
PCB-40	94.9	116 D	49.8	4.95 J
PCB-41/64/71/72	419	462 D	214	15.2 J
PCB-42/59	137	171 D	75	<4.79
2,4'-DDT	1,130	1,440	4,280	97.6
2,4'-DDT	1,130	1,440	4,280	97.6

Table 5-5
Analytical Laboratory Results—Storm Event 1 (Cont.)

Analyte	Size			
	DC	LAR	FWL	ML
PCB-43/49	295	353 D	170	11.6
PCB-44	451	517 D	236	17.8
PCB-45	62.7	86.7 D	33	2.93 J
PCB-46	31.2	38.8 D	15.8	<2.68
PCB-47	116	140 D	64.6	6.43
PCB-48/75	51.4	80 D	33.2	2.97 J
PCB-50	<3.79	<10.5 D	<2.72	<2.59
PCB-51	18.5	22.1 J, D	11	1.34 J
PCB-52/69	465	585 D	260	19.8
PCB-53	54.8	62.3 D	28.9	3.02 J
PCB-54	<2.85	<7.87 D	<2.05	<1.95
PCB-55	13	<17.2 D	8.38	<1.56
PCB-56/60	425	422 D	205	8.65 J
PCB-57	<2.95	<7.68 D	<2	<1.53
PCB-58	<3.12	<8.12 D	<2.12	<1.62
PCB-61/70	576	646 D	314	17.3
PCB-62	<3.37	<9.94 D	<2.39	<1.64
PCB-63	18.5	<19 D	10.4	<1.57
PCB-65	<3.35	<9.89 D	<2.38	<1.63
PCB-67	15	21.1 J, D	8.74	<1.69
PCB-68	4.78 J	<8.93 D	2.5 J	<1.48
PCB-73	<3.04	<8.7 D	<2.28	<1.61
PCB-74	212	225 D	108	5.84
PCB-76/66	465	456 D	225	10.8
PCB-77	111	114 D	55.7	4.04 J
PCB-78	<3.63	<8.38 D	<2.36	<1.65
PCB-79	16.3	20.7 J, D	<2.38	<1.67
PCB-80	<2.97	<6.88 D	<1.99	<1.4
PCB-81	12.4	4.71 J, D	<3.02	<1.43
PCB-82	166	185 D	98.1	<4.45
PCB-83	<5.3	<9.07 D	<5.04	<2.58
PCB-84/92	405	459 D	233	17.9
PCB-85/116	182	181 D	96.7	6.58 J
PCB-86	<8.17	<14 D	<7.78	<3.97
PCB-87/117/125	385	430 D	224	15.4
PCB-88/91	124	141 D	75.6	<6.98
PCB-89	13.5	15.3 J, D	<7.21	<3.69
PCB-90/101	948	1220 D	561	41.2
PCB-93	<6.12	<11.4 D	<6.28	<3.51
PCB-94	<6.17	<11.5 D	<6.34	<3.54
PCB-95/98/102	643	859 D	379	35.9
PCB-96	<10	<9.83 D	<4.53	<2.82

Table 5-5
Analytical Laboratory Results—Storm Event 1 (Cont.)

Analyte	Size			
	DC	LAR	FWL	ML
PCB-97	303	321 D	175	12.3
PCB-99	361	361 D	223	15.7
PCB-100	<5	<10.6 D	<4.9	<3.05
PCB-103	<5.37	<11.4 D	<5.26	<3.27
PCB-104	<3.93	<8.33 D	<3.84	<2.39
PCB-106/118	970	1,140 D	561	41.3
PCB-105	417	509 D	238	16.7
PCB-107/109	66.7	77.2 D	43.8	<2.58
PCB-108/112	49.8	54.3 D	<26.2	<3.1
PCB-110	1110	1,420 D	659	53.1
PCB-111/115	12.3	23.2 J, D	9.47 J	<2.31
PCB-113	<5.03	<11.8 D	<5.13	<2.63
PCB-114	23.2	17.8 J, D	13	<2.44
PCB-119	13.5	20.9 J, D	9.85	<2.31
PCB-120	<4.64	<7.95 D	<4.42	<2.26
PCB-121	<4.14	<7.74 D	<4.25	<2.37
PCB-122	13.9	<11.7 D	<4.51	<2.71
PCB-123	<6.78	29.8 D	12.6	<2.77
PCB-124	45.2	62 D	28.1	<2.47
PCB-126	<7.55	29.3 D	14.5	<3.02
PCB-127	<6.59	<19.4 D	<5.58	<2.95
PCB-128/162	216	337 D	131	13.1
PCB-129	73.5	91.9 D	41.7	<4.27
PCB-130	68.4	135 D	50.3	6.9
PCB-131	<5.39	<14.9 D	<3.27	<3.42
PCB-132/161	341	625 D	192	18.7
PCB-133/142	31.7	60.5 D	22.3	2.52 J
PCB-134/143	64.4	107 D	41.8	3.71 J
PCB-135	111	290 D	73.8	8.62
PCB-136	104	264 D	68.7	7.94
PCB-137	60.1	93.6 D	30.2	<2.91
PCB-138/163/164	1200	2,340 D	744	74.9
PCB-139/149	626	1,770 D	437	49.6
PCB-140	<4.58	10.4 D	<3.24	<3.13
PCB-141	228	568 D	144	14.4
PCB-144	39.2	119 D	<27.6	<2.24
PCB-145	<3.22	<7.15 D	<2.1	<2.03
PCB-146/165	141	289 D	92.3	9.89
PCB-147	16.5	34.9 D	<9.33	<2.86
PCB-148	<4.52	<10 D	<2.95	<2.84
PCB-150	<3.31	<7.35 D	<2.16	<2.08
PCB-151	168	578 D	117	13.3

Table 5-5
Analytical Laboratory Results—Storm Event 1 (Cont.)

Analyte	Size			
	DC	LAR	FWL	ML
PCB-152	<3.24	<7.18 D	<2.11	<2.04
PCB-153	876	2,080 D	562	62.2
PCB-154	11	<15.1 D	9.34	<2.64
PCB-155	<3.08	<6.84 D	<2.01	<1.94
PCB-156	119	211 D	75.3	7.8
PCB-157	32.6	57 D	20.5	<2.58
PCB-158/160	132	253 D	83.6	9.32 J
PCB-159	<5.49	<12 D	<2.75	<2.31
PCB-166	<5.32	<11.6 D	<2.66	<2.24
PCB-167	53.9	108 D	33.6	4.53 J
PCB-168	<3.48	<9.62 D	<2.11	<2.2
PCB-169	<7.79	<14.3 D	<3.66	<2.46
PCB-170	330	919 D	220	22.3
PCB-171	84.9	251 D	59.1	<4.55
PCB-172	72.5	183 D	41.1	4.46 J
PCB-173	<6.38	24.9 D	<4.22	<1.81
PCB-174	343	987 D	230	18.8
PCB-175	<12.6	<40.4 D	8.87	<1.69
PCB-176	33.8	118 D	24.4	2.29 J
PCB-177	195	576 D	123	11.8
PCB-178	55.1	214 D	41.8	<4
PCB-179	108	408 D	76.2	8.64
PCB-180	731	2,250 D	480	52.8
PCB-181	<5.17	<6.57 D	<3.42	<1.47
PCB-182/187	332	1,230 D	250	29.7
PCB-183	148	547 D	103	12
PCB-184	<4.01	<5.23 D	<2.42	<1.32
PCB-185	37.3	124 D	26.8	3.26 J
PCB-186	<3.75	<4.89 D	<2.27	<1.24
PCB-188	<3.44	<4.48 D	<2.08	<1.13
PCB-189	<13.5 D	39 D	<3.82	<1.13
PCB-190	56	184 D	41.9	4.4 J
PCB-191	15.3	45.5 D	10.3	<1.24
PCB-192	<4.57	<5.81 D	<3.02	<1.3
PCB-193	32.9	104 D	20.6	2.32 J
PCB-194	180	567 D	116	<10.9
PCB-195	67.5	235 D	46.2	4.11 J
PCB-196/203	155	569 D	111	14
PCB-197	<7.68	26.4 D	<4.88	<2.62
PCB-198	<11	<38 D	<11.9	<3.76
PCB-199	150	539 D	98.5	13.7
PCB-200	21.4	76.7 D	16.7	<2.71

Table 5-5
Analytical Laboratory Results—Storm Event 1 (Cont.)

Analyte	Size			
	DC	LAR	FWL	ML
PCB-201	31	79.3 D	15.9	<2.56
PCB-202	49.4	132 D	29.4	<2.92
PCB-204	<8.1	<7.38 D	<5.5	<2.76
PCB-205	<14.2	30.7 D	<11.1	<2.68
PCB-206	104	431 D	66.1	8.05
PCB-207	18.3	51.3 D	11.5	<1.71
PCB-208	<23.8	151 D	18.7	3.51 J
PCB-209	52.3	462 D	32.8	5.84

µg = micrograms; µm = micrometers; B = compound was also measured in the method blank; D = dilution; DC = Dominguez Channel; FWL = Freshwater Lens; J = amount detected is below the low calibration limit; L = liter; LAR = Los Angele River; ML = Machado Lake; mm = millimeters; ng = nanograms; NM = not measured (insufficient particle volume in sample for analysis); NTU = nephelometric turbidity units; PCB = polychlorinated biphenyl; pg = picograms

5.3 Storm Event 2—December 12–13, 2014

A storm event was monitored on December 12–13, 2014.

5.3.1 Flow Estimations—Storm Event 2

The total recorded flow volume and percentage captured during the storm sampling event is presented in Table 5-6. Monitoring event hydrographs are presented in Figure 5-25 to Figure 5-28, for DC, LAR, TL, and PLU, respectively.

Table 5-6.
Total Recorded Flow—Storm Event 2

Site	Storm Event 2 Recorded Flow (cf)	Monitored Event Flow (cf)	Percent Capture
Dominguez Channel	42,569,000	41,233,000	96.9%
Los Angeles River	778,264,000	778,264,000	100%
Torrance Lateral	8,982,000	8,274,000	92.1%
Port Land Use (Pier A)	69,000	63,000	91.3%
Freshwater Lens	Grab sample, no flow recorded	N/A	N/A

Figure 5-25. DC Storm Event 2 Hydrograph

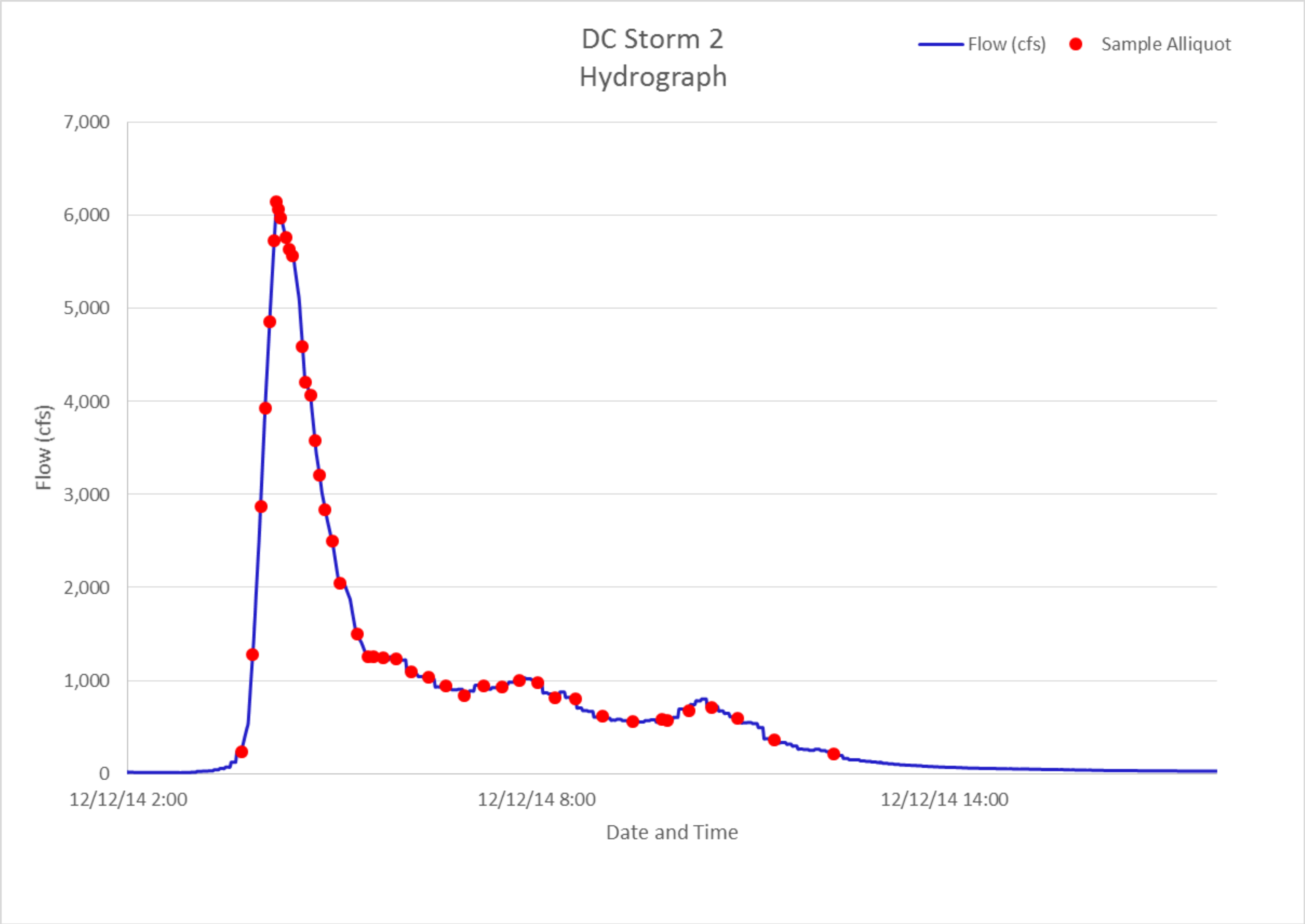

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Figure 5-26. LAR Storm Event 2 Hydrograph

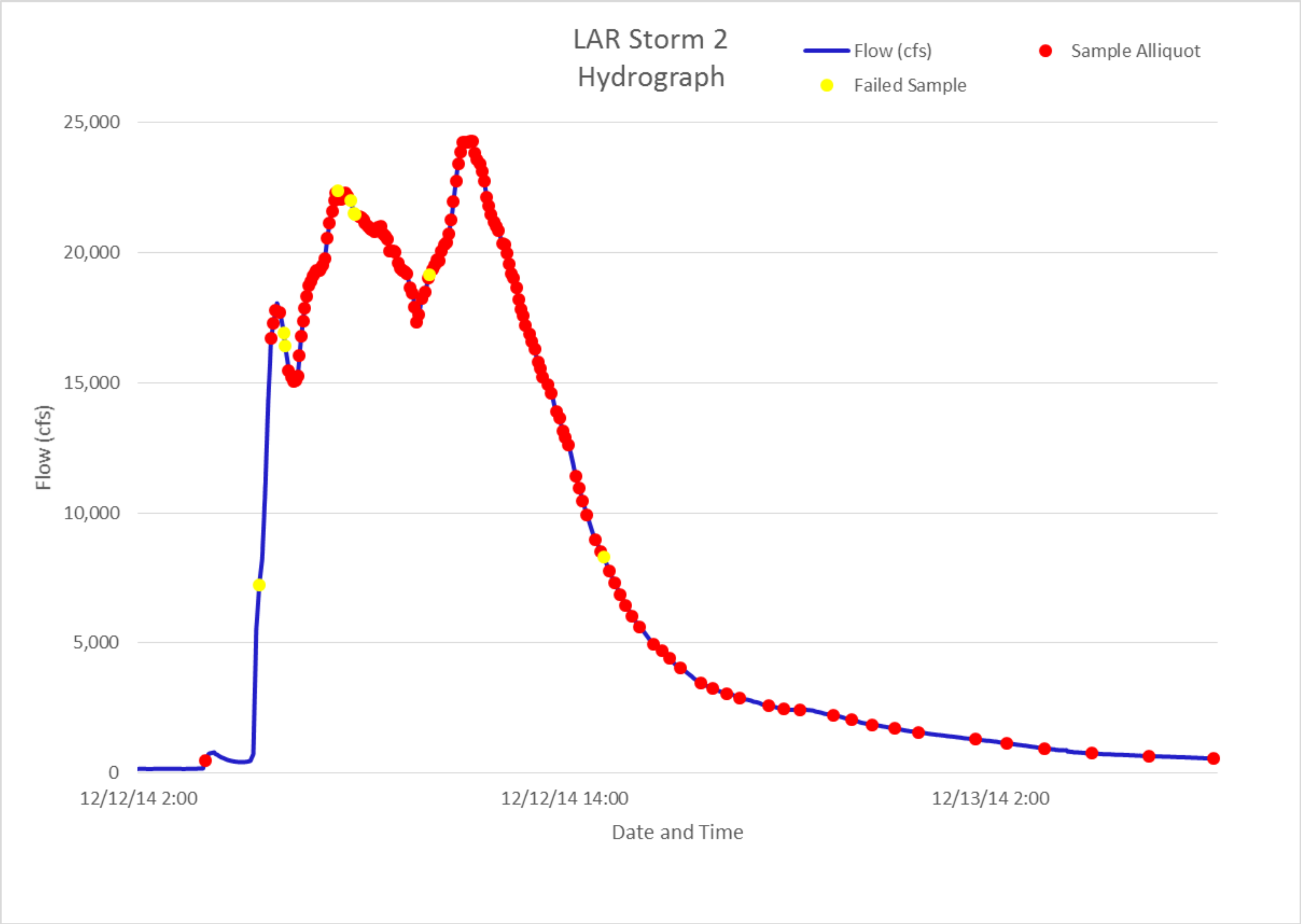

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Figure 5-27. TL Storm Event 2 Hydrograph

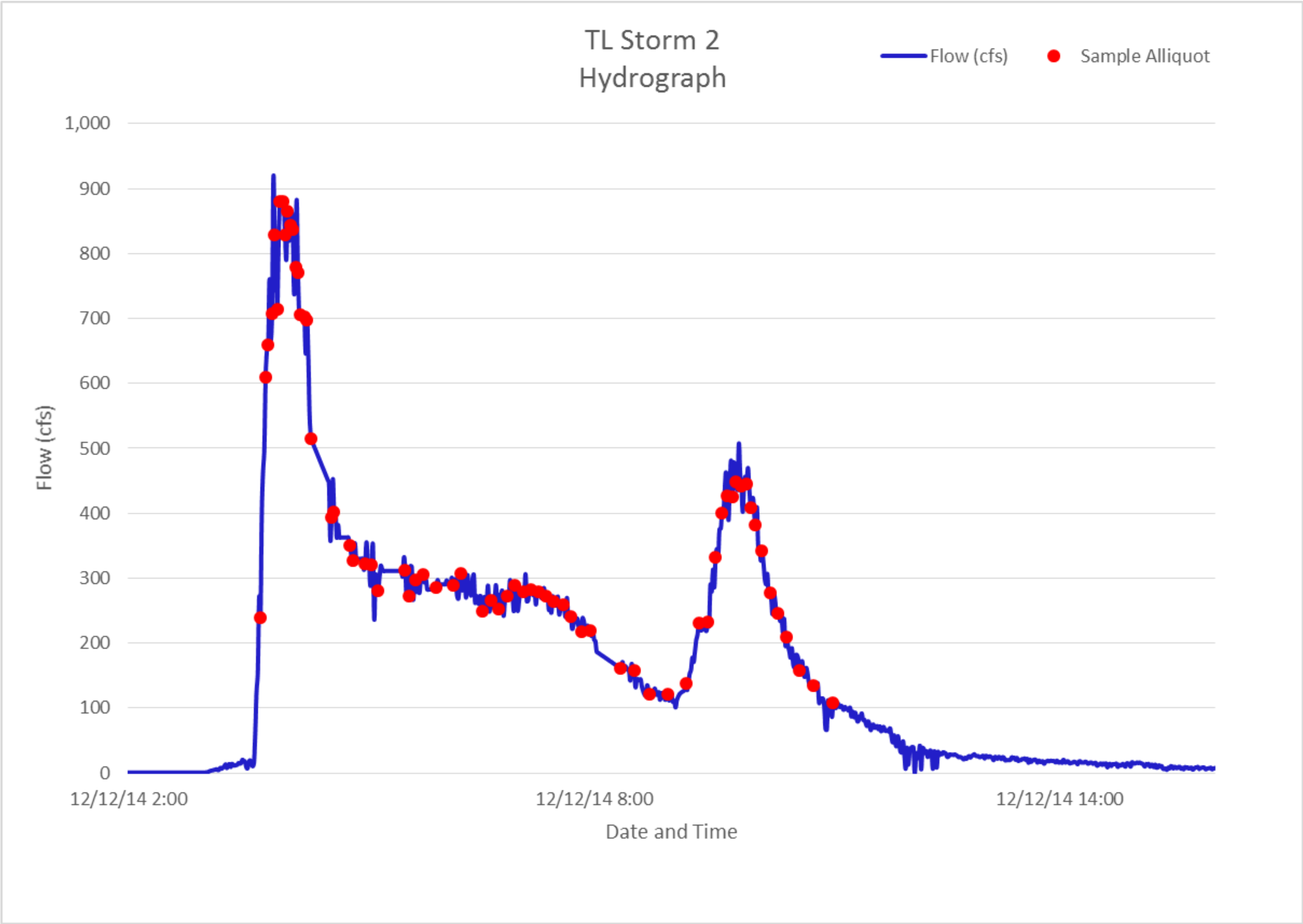

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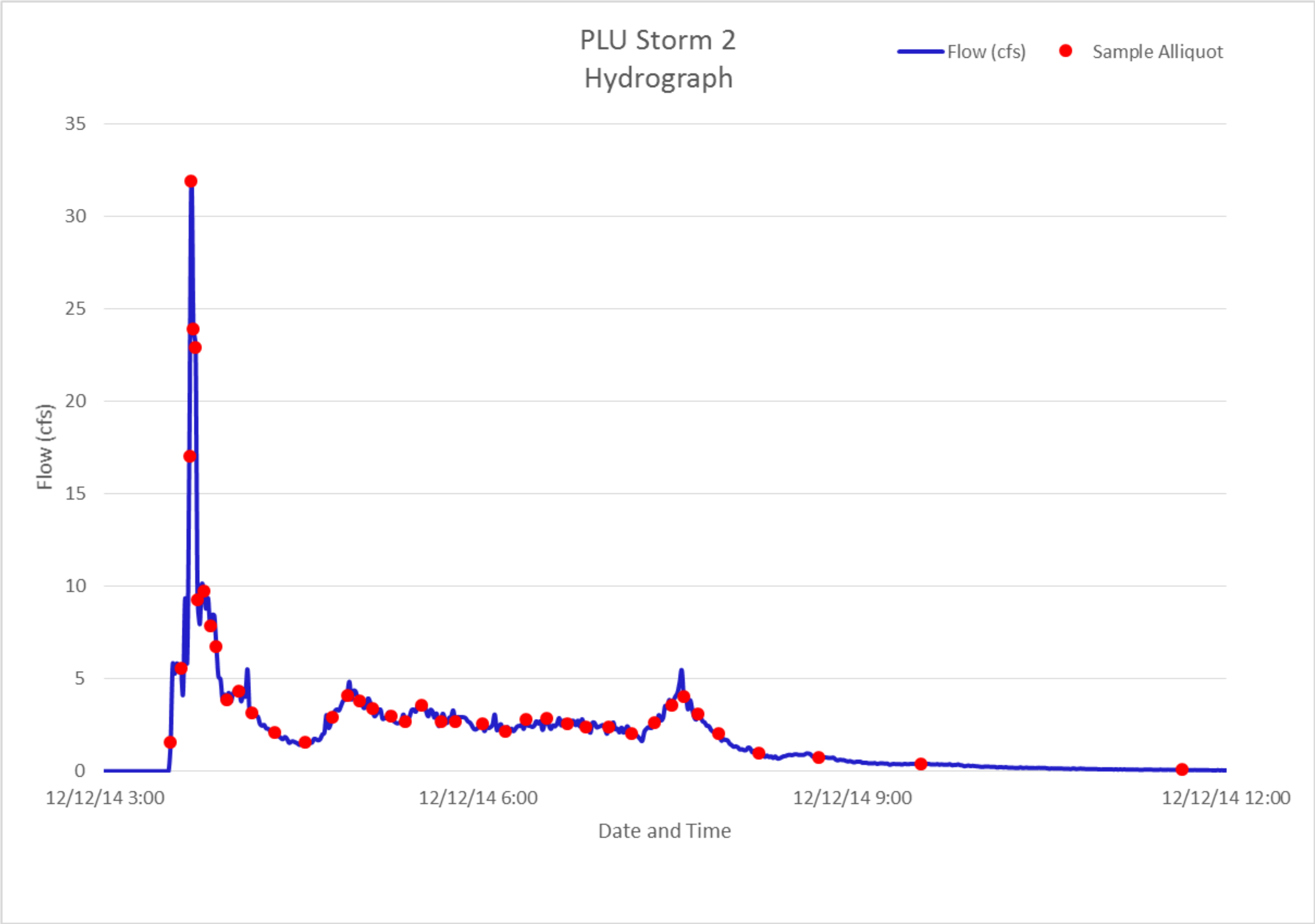
Figure 5-28. PLU Storm Event 2 Hydrograph



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5.3.2 Reported Rainfall—Storm Event 2

Table 5-7 presents NWS-reported rainfall totals[4] for the lower watershed study area (Long Beach Airport) and middle watershed study area (Los Angeles Airport and Downtown Los Angeles). Rainfall ceased on December 12, 2014, by approximately 1100[5].

Table 5-7.
Percent Capture of Rainfall—Storm Event 2

NWS Rain Gauge	December 11, 2014	December 12, 2014	December 13, 2014	Storm Total	Monitored Rainfall	Percent Capture
Long Beach Airport[a]	T	1.54	0.01	1.54	1.53	99.4%
Los Angeles Airport[a]	T	1.49	0.00	1.49	1.49	100%
Downtown Los Angeles[a]	0.01	1.60	0.00	1.61	1.60	99.4%

NWS = National Weather Service; T = trace amount of rainfall
a. Data reported from http://www.nws.noaa.gov/climate/index.php?wfo=lox, accessed on June 16, 2015.
Gray shading indicates monitored rainfall.

5.3.3 In-Situ Water Quality Results—Storm Event 2

Temperature, pH, electrical conductivity dissolved oxygen, and turbidity were measured every 15 minutes during the storm monitoring event. In-situ water quality monitoring results are presented in Figure 5-29 through Figure 5-48.

The electrical conductivity of the freshwater lens recorded while collecting the grab sample at monitoring site FWL was 350 µS/cm at approximately 6 inches deep, indicating the sample was freshwater. The depth of the freshwater lens was not measured.

4 http://www.nws.noaa.gov/climate/index.php?wfo=lox, accessed on June 16, 2015.

5 http://www.wunderground.com/personal-weather-station/dashboard?ID=KCALONGB8#history/tdata/s20141212/e20141212/mdaily, accessed on June 16, 2015.

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Figure 5-29. DC Storm Event 2 Temperature

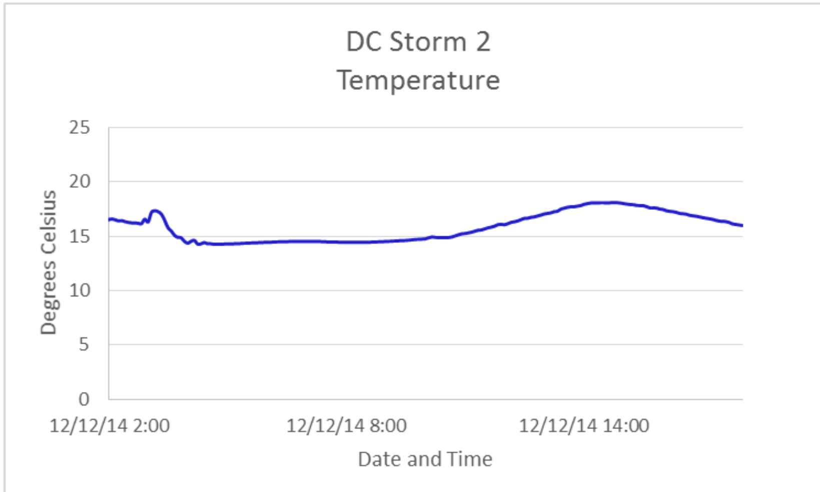


Figure 5-30. DC Storm Event 2 Conductivity[6]

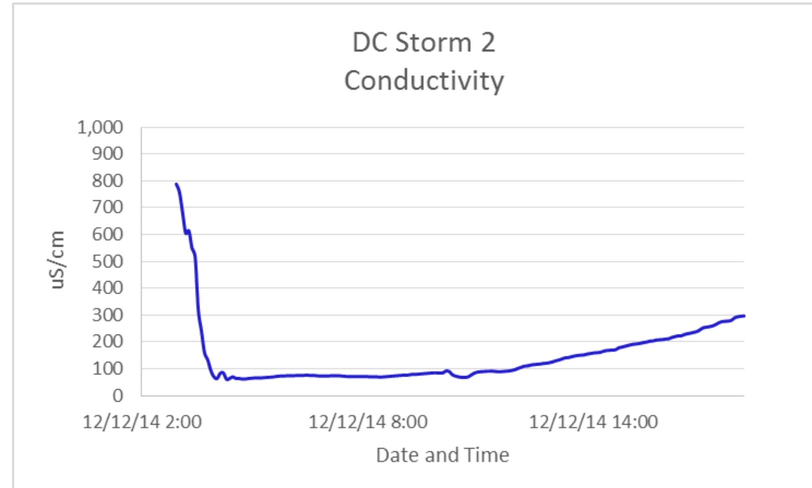


Figure 5-31. DC Storm Event 2 Turbidity

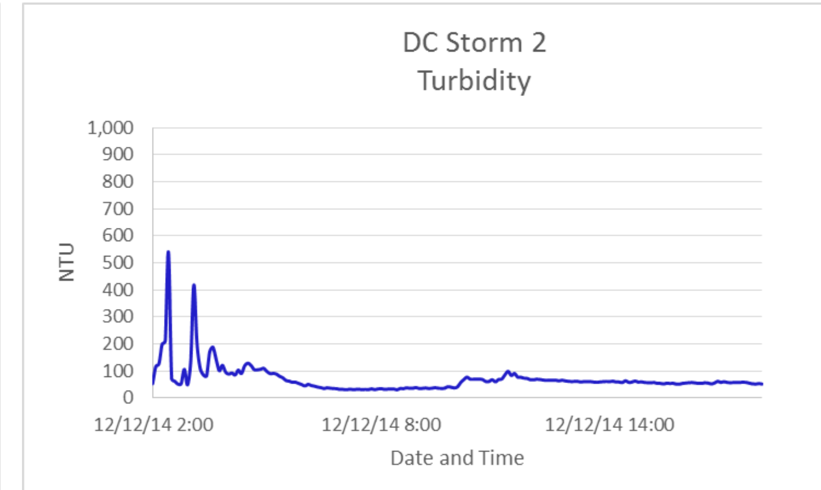


Figure 5-32. DC Storm Event 2 pH

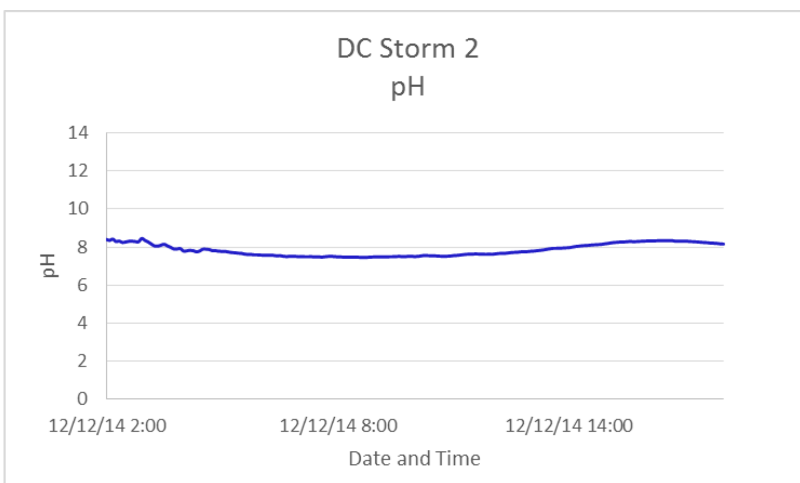
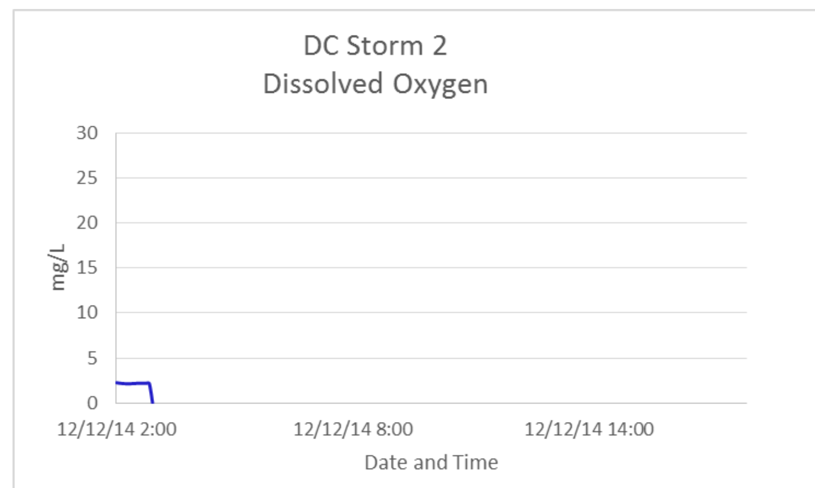


Figure 5-33. DC Storm Event 2 Dissolved Oxygen[7]



6 Conductivity probe was submerged only during storm flows.

7 Dissolved oxygen probe appears to have been damaged early in the storm event.

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Figure 5-34. LAR Storm Event 2 Temperature

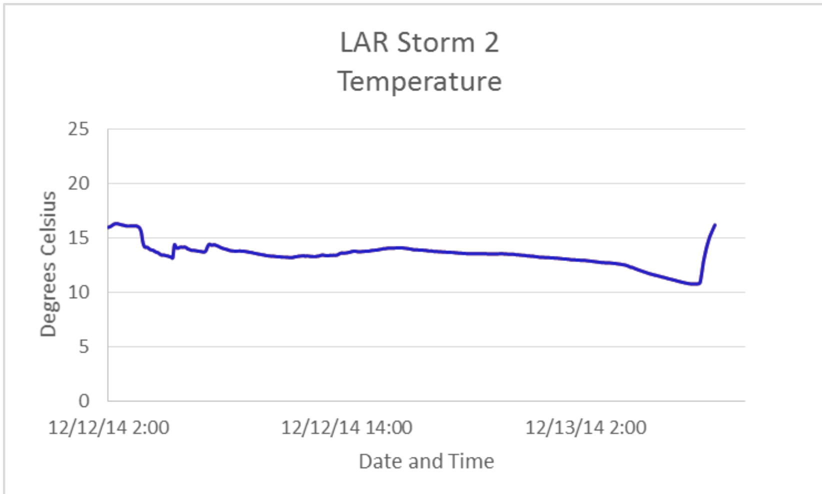


Figure 5-35. LAR Storm Event 2 pH

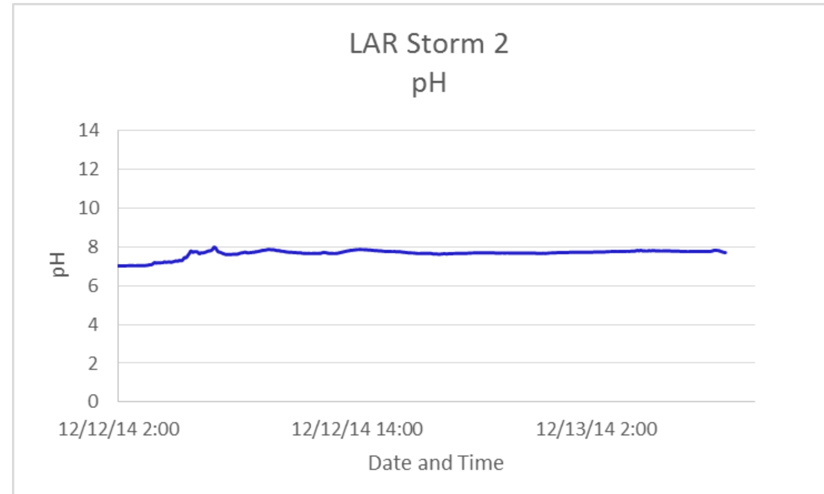


Figure 5-36. LAR Storm Event 2 Dissolved Oxygen

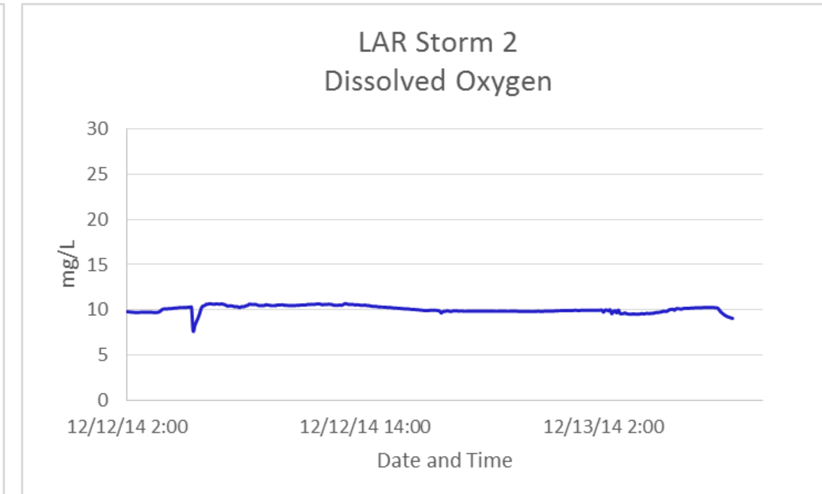


Figure 5-37. LAR Storm Event 2 Turbidity

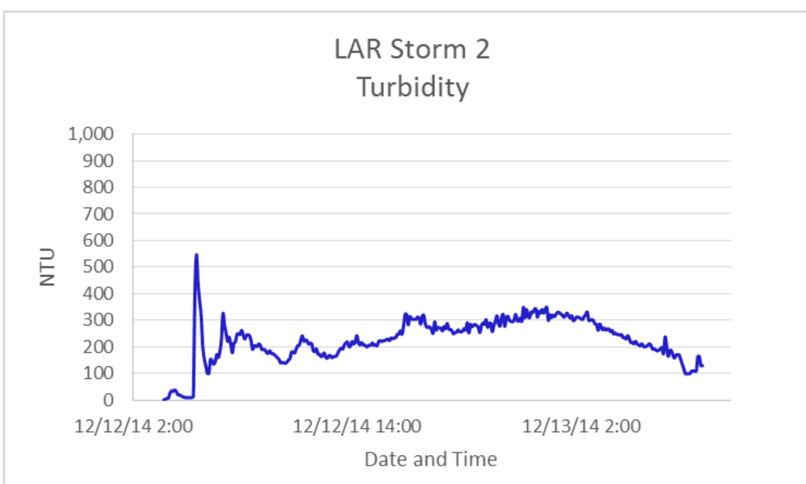
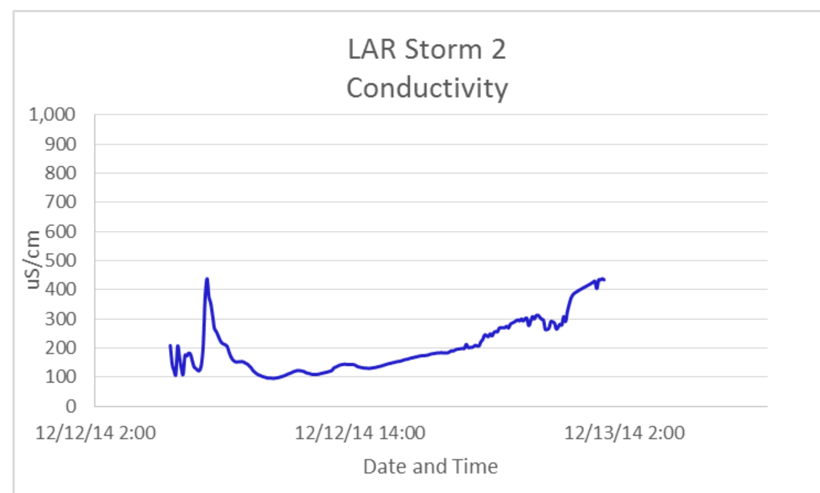


Figure 5-38. LAR Storm Event 2 Conductivity[8]



[8] Conductivity probe was submerged only during storm flows.

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Figure 5-39. TL Storm Event 2 Temperature

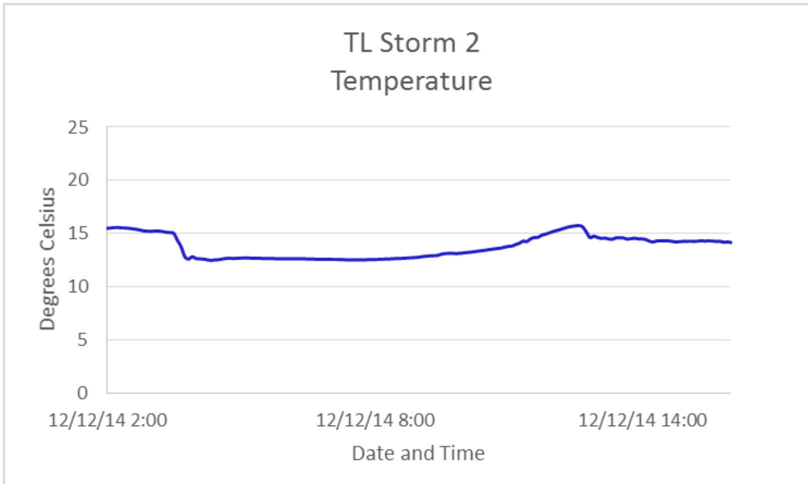


Figure 5-40. TL Storm Event 2 pH

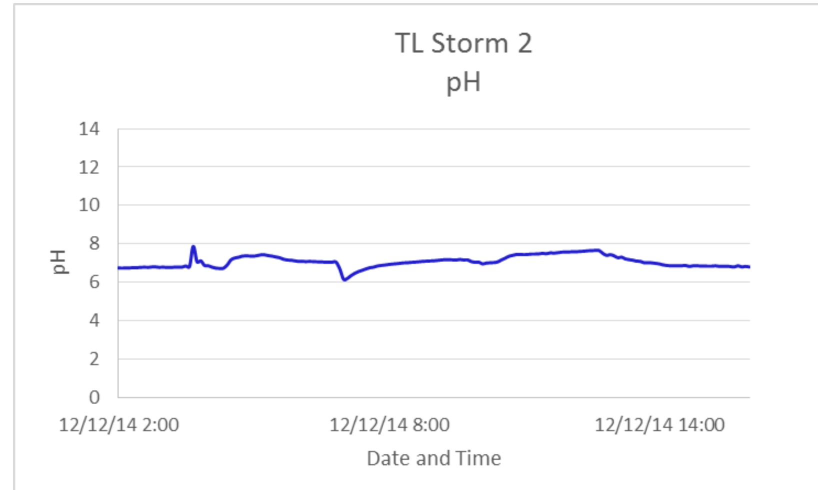


Figure 5-41. TL Storm Event 2 Dissolved Oxygen

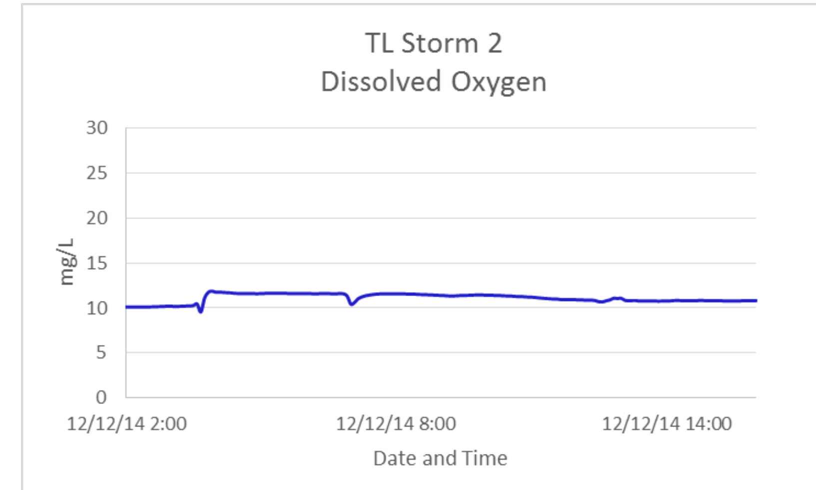


Figure 5-42. TL Storm Event 2 Turbidity

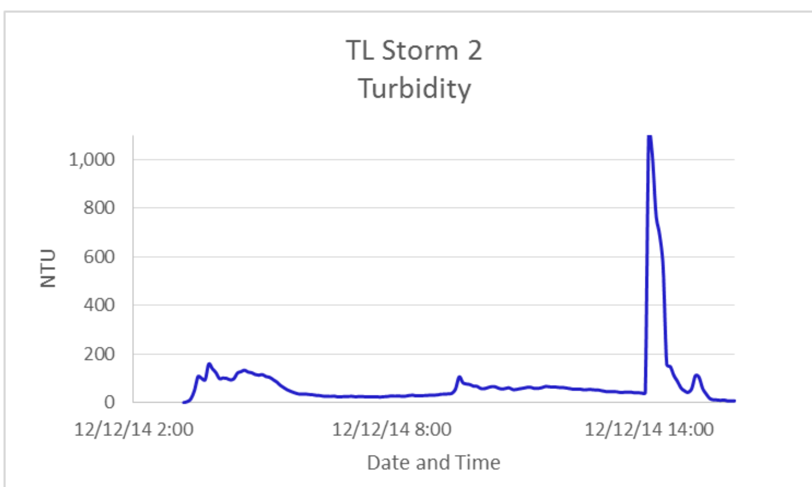
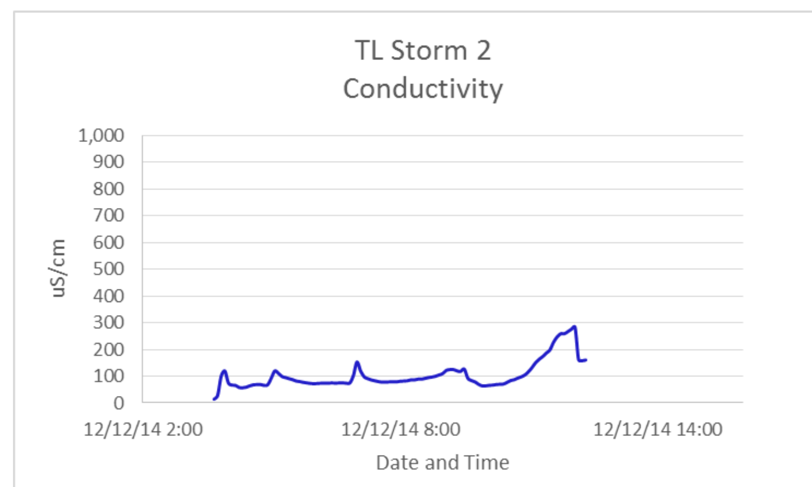


Figure 5-43. TL Storm Event 2 Conductivity[9]



[9] Conductivity probe was submerged only during storm flows.

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Figure 5-44. PLU Storm Event 2 Temperature[10]

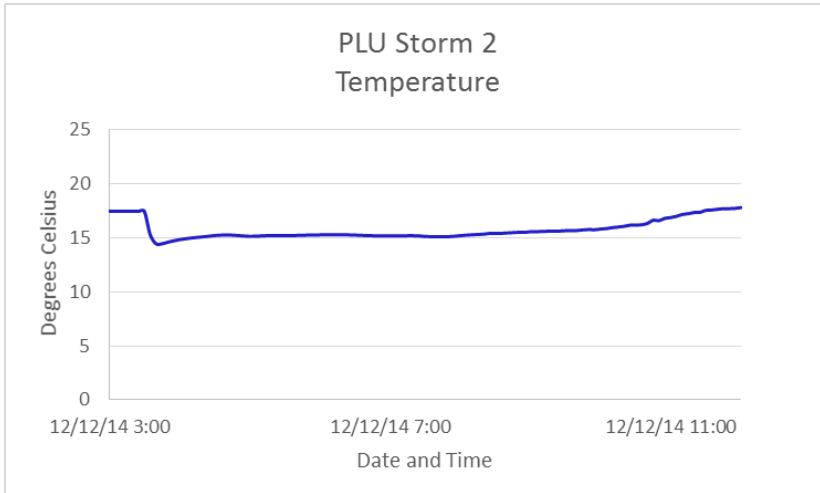


Figure 5-45. PLU Storm Event 2 pH

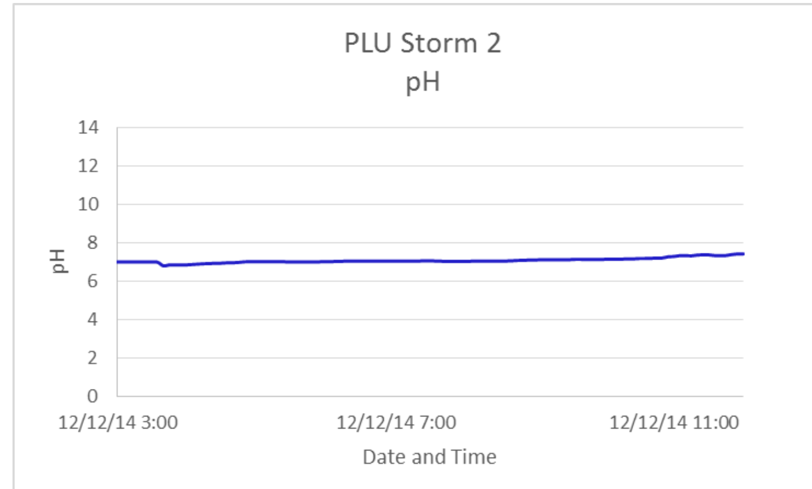


Figure 5-46. PLU Storm Event 2 Dissolved Oxygen

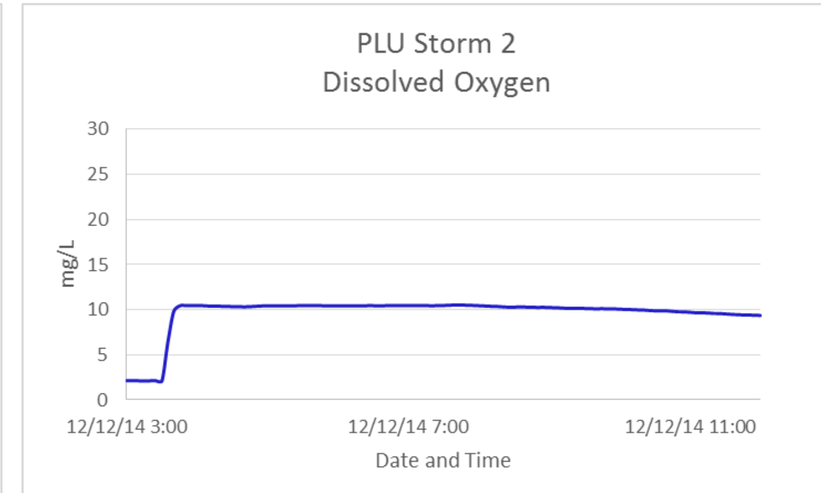


Figure 5-47. PLU Storm Event 2 Conductivity

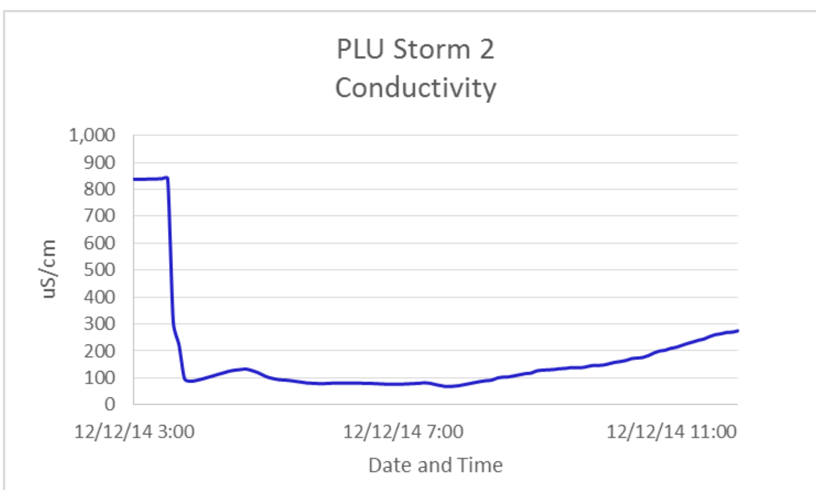
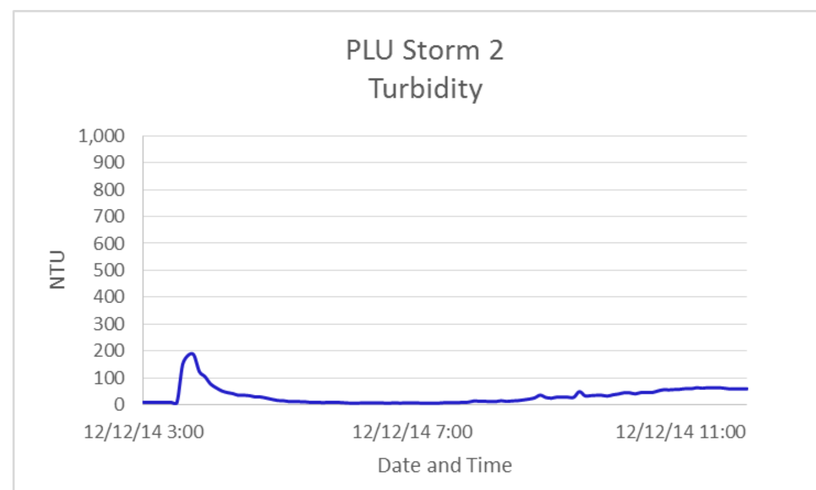


Figure 5-48. PLU Storm Event 2 Turbidity



[10] Sonde was located in sump area with comingled flows, not in the pipe with the flow meter and sample intake.

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5.3.4 Analytical Results, Primary Study—Storm Event 2

Analytical laboratory results for Storm Event 2 are presented in Table 5-8.

Table 5-8.
Analytical Laboratory Results—Storm Event 2

Analyte	Site				
	DC	LAR	TL	PLU	FWL (Grab)
Total and Dissolved Metals (µg/L)					
Total Cadmium	0.756	0.823	0.533	1.057	0.183
Dissolved Cadmium	0.062	0.025	0.097	0.109	0.057
Total Chromium	9.74	9.5	6.27	12.49	4.16
Dissolved Chromium	0.53	0.39	0.62	0.47	0.56
Total Copper	63.048	42.398	26.847	63.063	19.506
Dissolved Copper	7.526	5.404	5.572	10.06	6.612
Total Lead	51.91	38.973	22.949	47.567	9.515
Dissolved Lead	0.375	0.333	0.402	0.162	0.427
Total Zinc	387.47	260.74	229.66	1857.22	98.22
Dissolved Zinc	78.7	32.74	71.7	379.95	49.46
Total and Dissolved Mercury (ng/L)					
Total Mercury	57	50.6	34.3	8.8	16.4
Dissolved Mercury	1.2	0.9 J	0.8 J	< 0.5	0.8 J
General Chemistry					
Total Suspended Solids (mg/L)	279	269	161	272	43
Turbidity (NTU)	95	130	67	47	32
Particulate Organic Carbon (µg/L)	1,001	2,543	749	1,535	1,665
Particle Size Distribution (Weight by Percentage)					
Total Gravel (greater than 2 mm)	NM	NM	NM	NM	NM
Very Coarse Sand (1–2 mm)	0.05	0.04	0.03	0.41	NM
Coarse Sand (0.5–1 mm)	5.05	3.52	4.26	3.33	NM
Medium Sand (0.25–0.5 mm)	6.65	4.99	6.08	4.51	0.39
Fine Sand (0.125–0.25 mm)	9.55	8.78	9.0	14.2	2.18
Very Fine Sand (0.0625–0.125 mm)	15.1	15.0	14.99	14.2	11.4
Total Silt and Clay (0–0.0625 mm)	63.59	67.68	65.64	44.25	86.04
Silt (0.00391–0.0625 mm)	59.32	63.38	60.97	41.8	77.77
Clay (Less than 0.00391 mm)	4.27	4.3	4.67	2.45	8.26
DDT (pg/L)					
Reported Total DDT (less-than values are not included)	**62,180**	**37,716**	**515,280**	**3,358**	**38,858**
Potential Total DDT (less-than values are included)	**< 62,316**	**37,716**	**515,280**	**< 3,541**	**38,858**

Table 5-8
Analytical Results—Storm Event 2 (Cont.)

Analyte	Site				
	DC	LAR	TL	PLU	FWL (Grab)
2,4'-DDD (o,p'-DDD)	868 J	742 J	16,400 J	97 J	1340 J
2,4'-DDE (o,p'-DDE)	672 J	465 J	17100 J	120 J	890 J
2,4'-DDT (o,p'-DDT)	5,970 J	2,820 J	51,800 J	299 J	3900 J
4,4'-DDD	2,070 J	2,070 J	34,800 J	162 J	2600 J
4,4'-DDE	26,300 J, B	16,700 J, B	150,000 J, B	1,360 J	12200 J, B
4,4'-DDT	26,300 J, B	14,600 J, B	242,000 B	1,320 J	17600 J, B
4,4'-DDMU	< 136	319 J	3,180 J	< 183	328 J
PCB (pg/L)					
Reported Total PCB (less-than values are not included)	**76,966**	**63,564**	**32,912**	**26,620**	**11,496**
Potential Total PCB (less-than values are included)	**< 77,690**	**< 64,446**	**< 33,527**	**< 27,691**	**< 12,577**
PCB-001	21.6	17.9 J	6.86 J	12.3 J	< 8.14
PCB-002	11.3 J	11 J	10.1 J	20.4	< 8.13
PCB-003	15.5 J	13.9 J	< 3.79	19.9	< 7.88
PCB-004/010	< 48.1	124	< 36 EM	< 42.5	< 39.5
PCB-005/008	91.7	497	98.5	158	33.1 J
PCB-006	< 39.6	101	< 28.2	< 33.8	< 31
PCB-007/009	< 39.4	< 56.2 EM	< 27.9	< 33.6	< 30.8
PCB-011	666	883	999	1,610	154
PCB-012/013	< 39.9	32.7 J	< 30.4	< 35	< 31
PCB-014	< 35.6	< 39.6	< 27.1	< 31.2	< 27.6
PCB-015	70.8	249	84.6	102	25.5 J
PCB-016/032	194	590	124	173	69.1
PCB-017	72.7	334	65	95.5	29.4
PCB-018	201	817	162	249	71.4
PCB-019	31.2	95.9	23.1	21	12.2 J
PCB-020/021/033	163	716	119	269	54.3 J
PCB-022	168	490	108	159	54.4
PCB-023	< 7.58	< 3.99	< 2.79	< 7.29	< 4.07
PCB-024/027	27.7 J	81.8	20.8 J	21.3 J	8.49 J
PCB-025	26.4	89.9	17.1 J	29.5	8.86 J
PCB-026	62.3	190	39.6	61.3	16.4 J
PCB-028	415	1,140	311	350	127
PCB-029	< 7.47	9.49 J	< 2.75	< 7.19	< 4.01
PCB-030	< 4.92	< 5.42	< 3.97	< 2.98	< 3.32
PCB-031	283	871	212	299	95
PCB-034	< 7.88	< 4.15	< 2.9	< 7.57	< 4.23
PCB-035	40.9	41.4	24.9	77.6	8.59 J
PCB-036	< 7.93	< 4.61	< 2.97	< 7.92	< 4.33
PCB-037	217	429	136	212	55.9
PCB-038	< 8.06	< 4.68	< 3.02	< 8.05	< 4.4

Table 5-8
Analytical Results—Storm Event 2 (Cont.)

Analyte	Site				
	DC	LAR	TL	PLU	FWL (Grab)
PCB-039	< 7.69	< 4.47	< 2.88	< 7.68	< 4.2
PCB-040	177	225	75.6	96.6	< 42.4 EM
PCB-041/064/071/072	979	974	405	402	223
PCB-042/059	358	336	134	148	72
PCB-043/049	1,290	751	322	260	174
PCB-044	1,230	945	431	386	235
PCB-045	144	193	66.1	57.9	32.7
PCB-046	65.3	76.9	28.7	21.7	17 J
PCB-047	453	264	110	105	63.3
PCB-048/075	144	214	64.4	77.8	32.7 J
PCB-050	< 12.2	< 9.94	< 3.6	< 4.79	< 5.89
PCB-051	42.2	62.9	20	< 19.3 EM	12.7 J
PCB-052/069	1,840	1,020	575	409	284
PCB-053	127	152	57.2	43.8	29.7
PCB-054	< 9.88	< 8.02	< 2.91	< 3.86	< 4.76
PCB-055	40.9	33.5	12.8 J	12 J	< 5.17 EM
PCB-056/060	811	920	340	311	174
PCB-057	8.89 J	< 7.6	< 2.86	3.88 J	< 4.9
PCB-058	13.7 J	< 7.68	< 2.89	< 4.38	< 4.95
PCB-061/070	2,000	1,550	667	565	328
PCB-062	< 10.6	< 8.51	< 3	< 4.65	< 5.49
PCB-063	69	45.7	15.8 J	20.9	10.2 J
PCB-065	< 10.3	< 8.24	< 2.9	< 4.5	< 5.32
PCB-066/076	1,590	1,140	475	399	253
PCB-067	45.5	43.6	15.2 J	15.6 J	6.57 J
PCB-068	33	< 7.4	4.79 J	13.8 J	< 4.78
PCB-073	< 10.8	< 8.71	< 3.15	< 4.51	< 5.32
PCB-074	555	582	205	204	109
PCB-077	238	224	104	97.7	55
PCB-078	< 10.4	< 8.71	< 3.15	< 4.98	< 5.28
PCB-079	71.6	25.9	18.7 J	13.2 J	8.89 J
PCB-080	< 8.88	< 7.2	< 2.59	< 3.82	< 4.35
PCB-081	14.3 J	14.1 J	7.72 J	7.01 J	2.81 J
PCB-082	509	354	217	142	100
PCB-083	< 12.6	< 13.6	< 13.9	< 22	< 7.88
PCB-084/092	2,040	746	548	297	220
PCB-085/116	631	432	250	140	109
PCB-086	< 18.8	< 20.2	< 20.6	< 32.6	< 11.7
PCB-087/117/125	1,390	821	504	347	225
PCB-088/091	704	283	211	93.5	88.6
PCB-089	42.4	23.2	21	< 31.1	< 11.5
PCB-090/101	4,750	2,000	1,250	894	540

Table 5-8
Analytical Results—Storm Event 2 (Cont.)

Analyte	Site				
	DC	LAR	TL	PLU	FWL (Grab)
PCB-093	< 17.4	< 17.6	< 17.8	< 25.6	< 10.4
PCB-094	25.9	< 18	< 18.1	< 26.2	< 10.6
PCB-095/098/102	3,420	1,350	1,040	514	385
PCB-096	32	< 12.5	< 12.1	< 18.9	< 7.86
PCB-097	1,360	619	387	231	176
PCB-099	2,230	770	475	287	209
PCB-100	< 12.1	< 13.6	< 13.2	< 20.6	< 8.56
PCB-103	53.5	< 14.6	< 14.1	< 22.1	< 9.2
PCB-104	< 9.66	< 10.8	< 10.5	< 16.4	< 6.8
PCB-105	1,580	1,300	636	472	281
PCB-106/118	4,280	2,380	1,210	984	573
PCB-107/109	428	175	99.5	63.9	49.1
PCB-108/112	258	100	80.7	43.9	32.2 J
PCB-110	5,360	2,690	1,820	964	648
PCB-111/115	60.1	42	26.1 J	< 19	12.1 J
PCB-113	32.2	14.9 J	11.7 J	24.4	< 8.62
PCB-114	77.5	74.4	32.4	29.3	14.7 J
PCB-119	181	34.7	< 26.6 EM	16 J	10.7 J
PCB-120	30	< 11.6	< 11.8	< 18.7	< 6.72
PCB-121	< 10.3	< 10.5	< 10.5	< 15.2	< 6.16
PCB-122	< 34.2 EM	33.6	17.5 J	< 26.4	< 13
PCB-123	53.5	52.2	33.2	< 23.7	13.3 J
PCB-124	160	121	75.8	44	28.2
PCB-126	54.5	53.1	29.7	< 29.3 EM	< 15.4
PCB-127	< 7.62	< 10.9	< 9.87	< 30.3	< 12.8
PCB-128/162	848	667	393	264	137
PCB-129	238	188	115	91	41.4
PCB-130	355	286	140	101	< 50.6 EM
PCB-131	< 5.88	< 10.2	< 10.3	< 18.9	< 14.1
PCB-132/161	1,510	1,060	598	402	199
PCB-133/142	150	97.4	56.2	34.9 J	20.1 J
PCB-134/143	291	172	113	72.5	41.7
PCB-135	561	377	224	132	71.7
PCB-136	498	349	224	112	61.4
PCB-137	252	138	107	58.2	38.6
PCB-138/163/164	5,100	4,100	2,300	1,920	787
PCB-139/149	3,110	2,380	1,370	854	424
PCB-140	37.1	17.9 J	< 11.2 EM	< 16.4	< 15
PCB-141	797	812	399	362	147
PCB-144	< 9.88	< 10.8	< 11	< 11.8	< 10.8
PCB-145	132	144	77.6	50.3	22.3
PCB-146/165	663	455	262	203	84.4

Table 5-8
Analytical Results—Storm Event 2 (Cont.)

Analyte	Site				
	DC	LAR	TL	PLU	FWL (Grab)
PCB-147	< 83.9 EM	40.7	28.1	15.4 J	< 10.8 EM
PCB-148	< 14.6	< 15.9	< 16.2	< 17.3	< 15.9
PCB-150	< 10.2	< 11.1	< 11.3	< 12.1	< 11.1
PCB-151	726	628	333	221	114
PCB-152	< 9.83	< 10.7	< 10.9	< 11.7	< 10.7
PCB-153	3,770	3,050	1,600	1,550	594
PCB-154	< 58.1 EM	30.5	< 11.8 EM	< 13.5 EM	< 13.3
PCB-155	< 9.51	< 10.4	< 10.6	< 11.3	< 10.3
PCB-156	487	422	200	200	78.7
PCB-157	128	104	59.6	47	24.6
PCB-158/160	570	489	275	212	88.6
PCB-159	< 4.61	< 8.12	< 8.2	< 16.8	< 10.3
PCB-166	24.8	16.7 J	11.3 J	< 17.6	< 10.7
PCB-167	205	174	104	90.9	40.9
PCB-168	< 3.92	< 6.75	< 6.87	< 12.6	< 9.37
PCB-169	< 5.41	< 10.3	< 9.77	< 23.3	< 12.8
PCB-170	1,070	1,320	536	732	189
PCB-171	286	323	138	194	< 40 EM
PCB-172	176	240	99.6	140	< 27.6 EM
PCB-173	< 10.1	34.9	< 10.2	< 23.2	< 10.7
PCB-174	1,070	1,210	509	598	176
PCB-175	43.8	43.9	24	< 24.9 EM	< 8.3
PCB-176	110	129	75.9	54.2	27.3
PCB-177	644	690	293	338	< 99.9 EM
PCB-178	196	< 210 EM	112	99.9	24.7
PCB-179	346	446	237	155	< 63.3 EM
PCB-180	2,370	2,770	1,180	1,520	415
PCB-181	< 8.61	< 11.1	< 8.7	< 19.8	< 9.14
PCB-182/187	1,220	1,460	747	577	228
PCB-183	496	654	306	297	95.1
PCB-184	< 5.84	< 8.27	< 6.68	< 11.4	< 6.5
PCB-185	119	153	72.5	88.2	26.7
PCB-186	< 5.67	< 8.02	< 6.48	< 11	< 6.3
PCB-188	< 5.15	< 7.28	< 5.89	< 10	< 5.73
PCB-189	36.9	56.5	26.2	37.8	< 7.91
PCB-190	229	281	109	141	35.1
PCB-191	37.7	51.1	21.6	< 18.1 EM	< 7.44
PCB-192	< 7.67	< 9.89	< 7.76	< 17.6	< 8.15
PCB-193	110	< 118 EM	56.6	69.3	21.8
PCB-194	614	715	378	320	112
PCB-195	197	279	131	128	36.5
PCB-196/203	611	788	435	295	135
PCB-197	25.8	23.8	< 14.1	< 20.8	< 17.4
PCB-198	28.9	< 46.5 EM	< 23.2	21.7	< 25.2
PCB-199	595	797	438	269	114
PCB-200	74.8	84.3	51.5	26.5	< 18.4
PCB-201	77.1	95	64.1	34.1	< 17

Table 5-8
Analytical Results—Storm Event 2 (Cont.)

Analyte	Site				
	DC	LAR	TL	PLU	FWL (Grab)
PCB-202	119	164	92.8	73.7	31
PCB-204	< 14.7	< 9.19	< 17.3	< 22.6	< 18.8
PCB-205	35.3	40.2	< 16.1 EM	< 22.3	< 11.7
PCB-206	331	888	274	144	67.6
PCB-207	46.2	91.3	65.4	22.2	< 7.91
PCB-208	90.4	312	97.4	< 28.4 EM	20.9
PCB-209	146	1,140	1,660	53.7	62

µg/L = micrograms per liter; µm = micrometers; B = compound was also measured in the method blank; D = dilution; DC = Dominguez Channel; DDD = dichlorodiphenyldichloroethane; DDE = dichlorodiphenyldichloroethylene; DDT = dichlorodiphenyltrichloroethane; EM = estimated maximum; FWL = Freshwater Lens; J = amount detected is below the low calibration limit; mm = millimeters; LAR = Los Angeles River; ng/L = nanograms per liter; NM = not measured (insufficient particle volume in sample for analysis); NTU = nephelometric turbidity units; PCB = polychlorinated biphenyl; pg/L = picograms per liter; PLU = Port Land Use (Pier A); TL = Torrance Lateral

5.3.5 Analytical Results, Mid-Column Sediment Sampling—Storm Event 2

Figure 5-49 and Figure 5-50 present storm event hydrographs that note when the pollutograph samples were collected. The intensity of the storm event necessitated modifying sampling parameters at the four composite sampling sites, so no pollutograph sample of the initial peak flow at monitoring site DC was captured. The longer response lag time at monitoring site LAR allowed peak flows to be successfully sampled at this site.

Analytical laboratory results for the pollutograph sampling at monitoring sites DC and LAR are presented in Table 5-9 and Table 5-10.

Figure 5-49. DC Storm 2 Pollutograph Samples

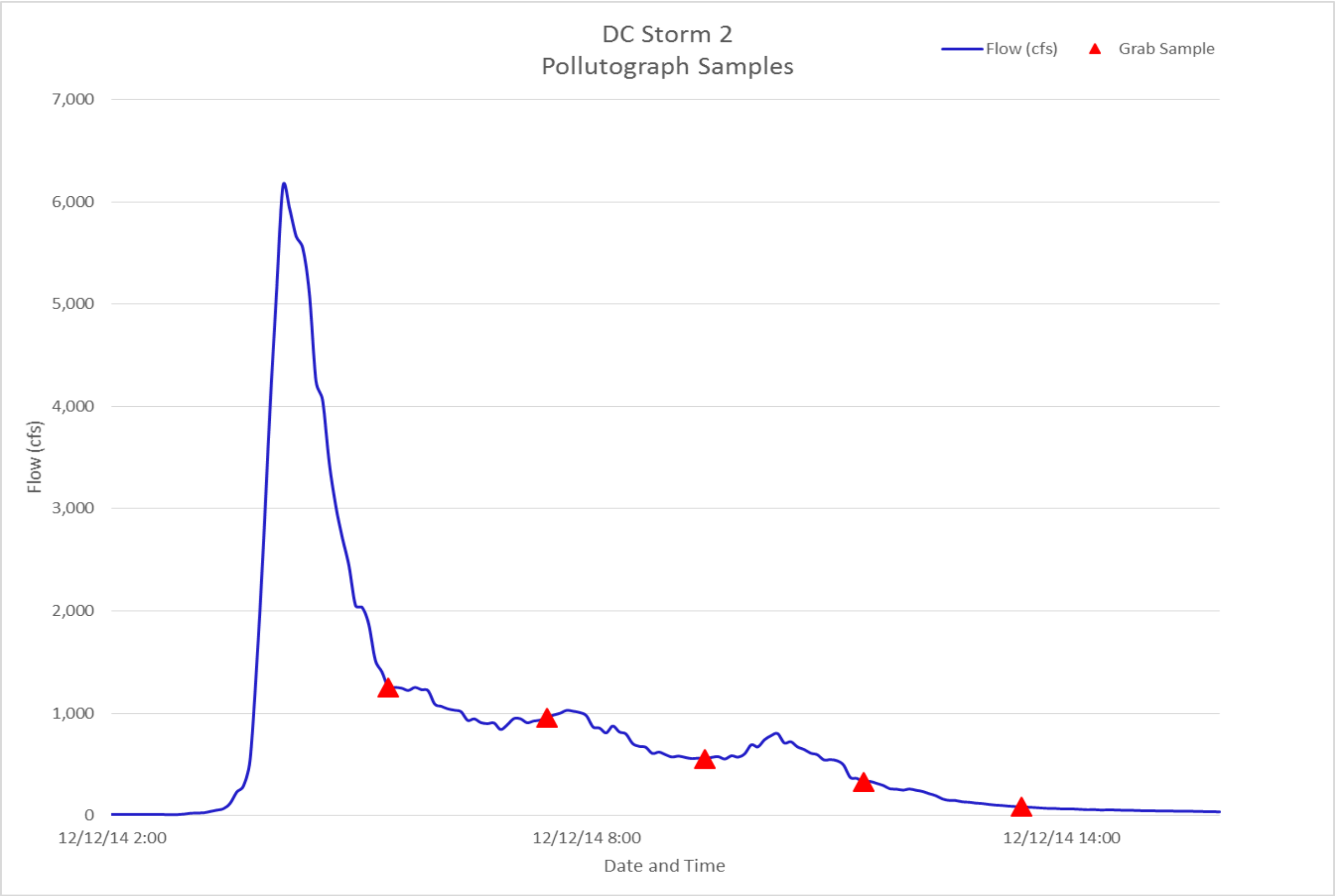

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Figure 5-50. LAR Storm 2 Pollutograph Samples

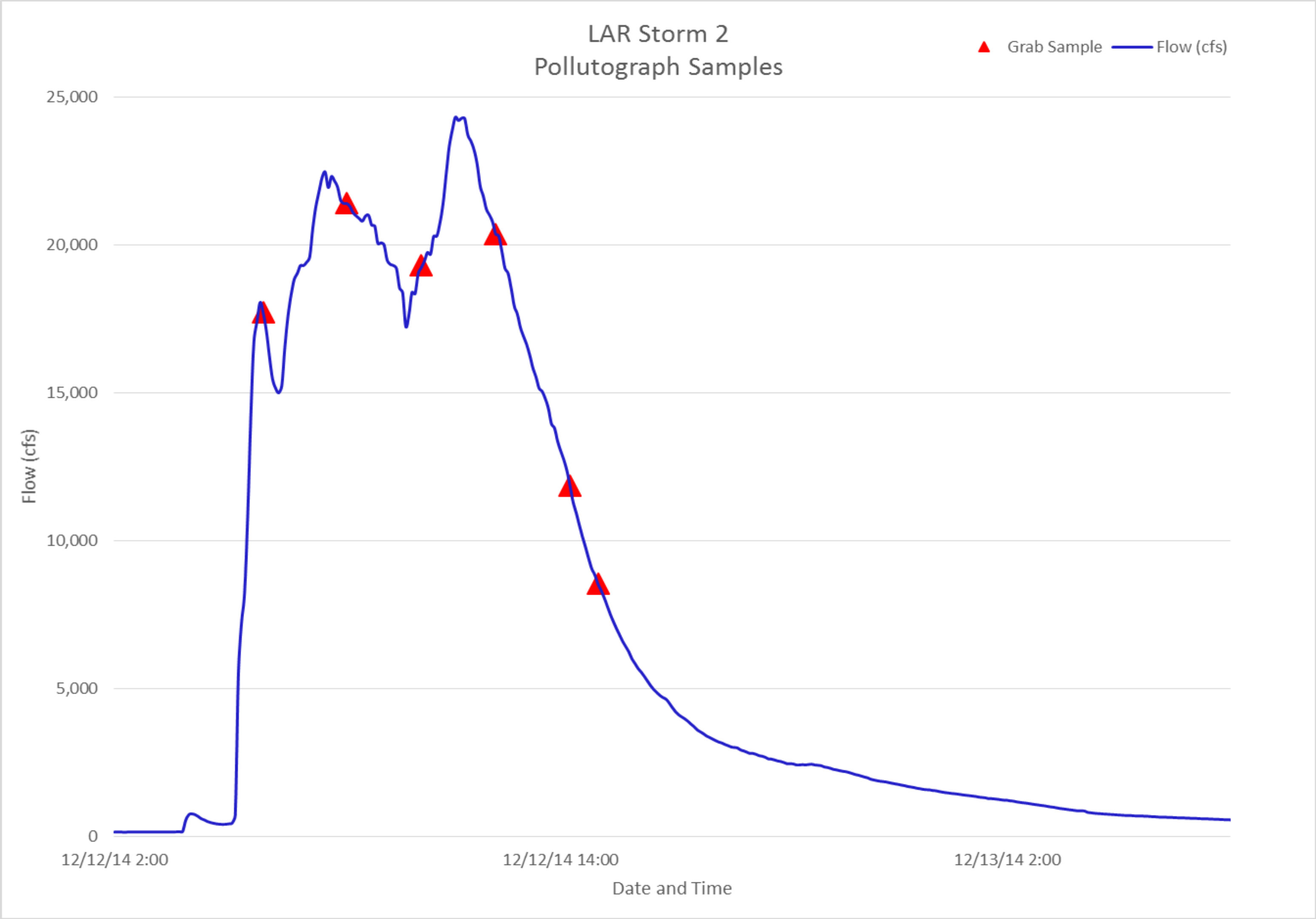

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Table 5-9.
DC Pollutograph Preliminary Analytical Laboratory Results

Analyte	Site: Dominguez Channel									
	Grab 1		Grab 2		Grab 3		Grab 4		Grab 5	
	Bottom (MES)	Mid Water Column (Bridge)	Bottom (MES)	Mid Water Column (Bridge)	Bottom (MES)	Mid Water Column (Bridge)	Bottom (MES)	Mid Water Column (Bridge)	Bottom (MES)	Mid Water Column (Bridge)
Total Suspended Solids (TSS) (mg/L)	100	208	48	45	78	49	144	164	98	88
Turbidity (NTU)	81	69	35	35	48	42	100	74	57	72
Particulate Organic Carbon (POC) (µg/L)	OR	OR	5,412	OR	7,055	OR	5,315	OR	OR	OR
Total Gravel (greater than 2 mm)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Very Coarse Sand (1–2 mm)	NM	NM	0.02	NM	NM	NM	NM	NM	NM	NM
Coarse Sand (0.5–1 mm)	2.0	0.25	1.98	1.91	NM	NM	0.73	1.44	NM	NM
Medium Sand (0.25–0.5 mm)	3.93	1.32	3.13	2.5	0.03	2.47	2.64	3.91	0.01	1.38
Fine Sand (0.125–0.25 mm)	11.29	5.61	12.01	5.59	13.39	5.23	7.22	5.53	3.72	2.63
Very Fine Sand (0.0625–0.125 mm)	15.68	8.75	21.22	15.4	16.98	8.82	11.29	9.29	10.41	6.58
Total Silt and Clay (0–0.0625 mm)	67.1	84.07	61.64	74.61	69.6	83.48	78.12	79.84	85.86	89.41
Silt (0.0039–0.0625 mm)	61.04	76.21	55.75	68.38	63.04	74.6	70.86	73.48	77.45	78.1
Clay (Less than 0.00391 mm)	6.06	7.86	5.89	6.22	6.55	8.88	7.26	6.36	8.41	11.31

µg/L = micrograms per liter; DC = Dominguez Channel; MES = mass emission station; mg/L =milligrams per liter; mm = millimeters; NM = not measured (insufficient particle volume in sample for analysis); NTU = nephelometric turbidity units; OR = over-read (concentration exceeds the upper limits of the analytical machine)

Table 5-10.
LAR Pollutograph Preliminary Analytical Laboratory Results

Analyte	Site: Los Angeles River											
	Grab 1		Grab 2		Grab 3		Grab 4		Grab 5		Grab 6	
	Bottom (MES)	Mid Water Column (Bridge)	Bottom (MES)	Mid Water Column (Bridge)	Bottom (MES)	Mid Water Column (Bridge)	Bottom (MES)	Mid Water Column (Bridge)	Bottom (MES)	Mid Water Column (Bridge)	Bottom (MES)	Mid Water Column (Bridge)
TSS (mg/L)	296[1]	359[1]	265	471	166	281	230	336	340	386	251	310
Turbidity (NTU)	140	190	120	210	93	190	140	200	160	200	170	220
POC (µg/L)	1,193	OR	OR	OR	7,726	12,890	OR	7,632	13,829	8,958	OR	9,898
Total Gravel (greater than 2 mm)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Very Coarse Sand (1–2 mm)	NM	2.16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Coarse Sand (0.5–1 mm)	1.75	2.12	0.74	NM	1.71	0.03	0.32	NM	NM	NM	NM	NM
Medium Sand (0.25–0.5 mm)	2.98	2.6	2.25	0.5	3.82	3.94	1.4	0.96	1.34	0.49	0.13	0.72
Fine Sand (0.125–0.25 mm)	6.14	6.81	4.46	1.56	6.34	6.73	2.79	4.13	3.25	3.67	2.01	4.0
Very Fine Sand (0.0625–0.125 mm)	12.7	15.51	10.09	7.48	10.5	11.1	7.4	7.45	5.89	6.66	6.40	6.33
Total Silt and Clay (0–0.0625 mm)	76.43	70.8	82.46	90.47	77.63	78.2	88.1	87.46	89.52	89.18	91.46	88.95
Silt (0.00391–0.0625 mm)	71.29	67.13	76.24	83.75	71.3	71.48	80.16	78.38	78.72	79.19	81.1	78.43
Clay (less than 0.00391 mm)	5.15	3.66	6.22	6.71	6.33	6.72	7.94	9.08	10.8	9.99	10.36	10.51

µg/L = micrograms per liter; LAR= Los Angeles River; MES = mass emission station; mg/L = milligrams per liter; mm = millimeters; NM = not measured (insufficient particle volume in sample for analysis); NTU = nephelometric turbidity units; OR = over-read (concentration exceeds the upper limits of the analytical machine)

1. The analytical laboratory reported Grab 1 Bottom sample as 359 mg/L and Mid-Column as 296 mg/L. An attempt was made to ensure that these reported results were correct; however, no error was found, either during sample collection in the field or during laboratory processing. Based on the pattern established by Grab 2-6 and the reported turbidity data, best professional judgment indicates that these values were likely transposed at some point; thus, they have been adjusted accordingly in this table.

5.4 Storm Event 3—April 7, 2015

5.4.1 Flow Estimations—Storm Event 3

The total recorded flow volume and percentage captured during the storm sampling event are presented in Table 5-11. A monitoring event hydrograph is presented in Figure 5-51.

Table 5-11.
Total Recorded Flow—Storm Event 3

Site	Storm Event 3 Recorded Flow (cf)	Monitored Event Flow (cf)	Percent Capture
Port Land Use (Pier A)	838	766	91.4%

cf = cubic feet

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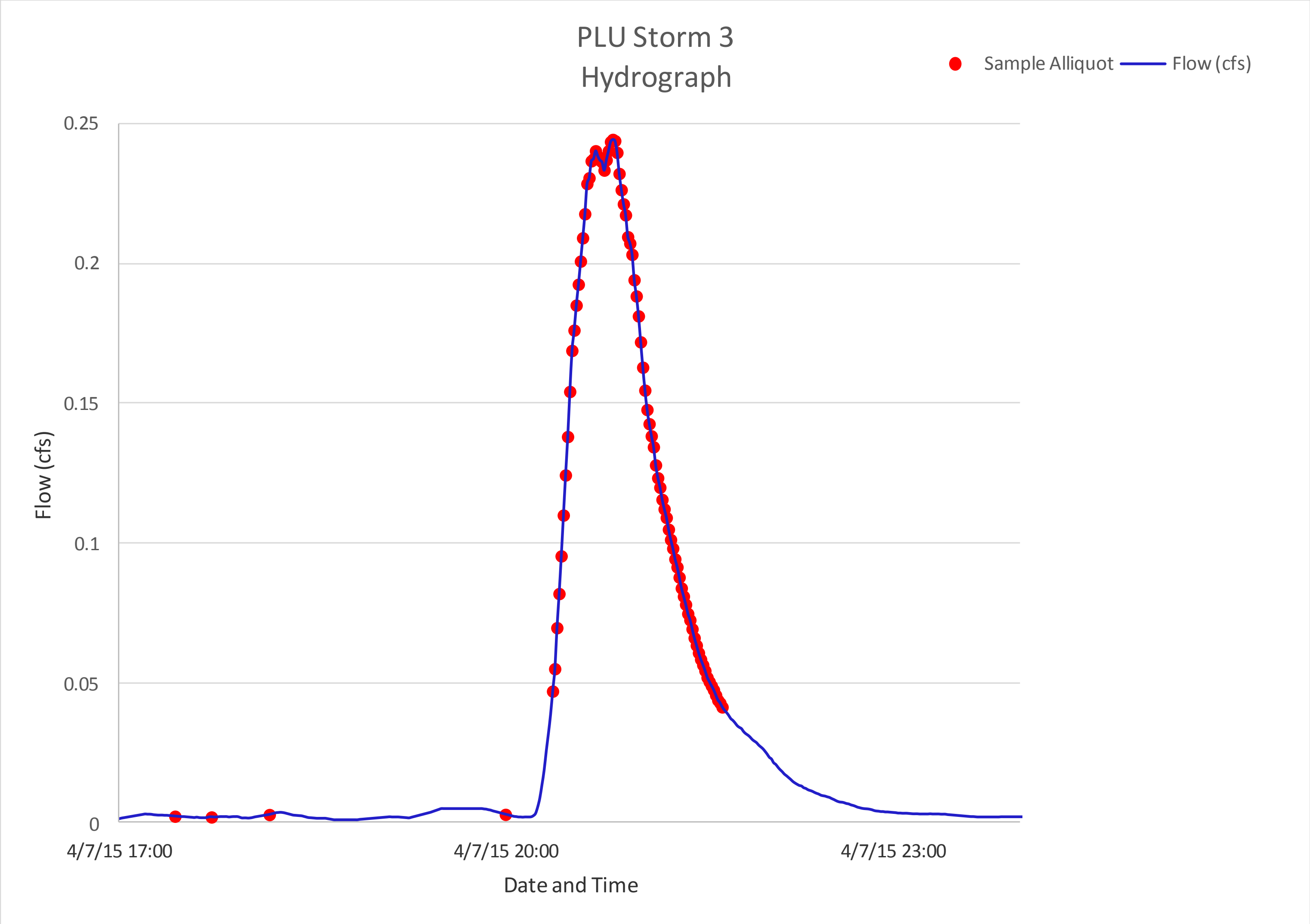
Figure 5-51. PLU Storm Event 3 Hydrograph



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5.4.2 Reported Rainfall—Storm Event 3

Table 5-12 presents NWS reported rainfall totals[11] for the lower watershed study area (Long Beach Airport).

Table 5-12.
Percent Capture of Rainfall—Storm Event 3

NWS Rain Gauge	Rainfall (inches)			Percent Capture
	December 12, 2014	Storm Total	Monitored Rainfall	
Long Beach Airport[a]	0.21	0.21	0.21	100%

NWS = National Weather Service
a. Data reported are from http://www.nws.noaa.gov/climate/index.php?wfo=lox, accessed on June 17, 2015.

5.4.3 Analytical Results—Storm Event 3

Analytical laboratory results are presented in Table 5-13.

Table 5-13.
Analytical Laboratory Results—Storm Event 3

Analyte	PLU
Total and Dissolved Metals (µg/L)	
Total Cadmium	3.186
Dissolved Cadmium	1.882
Total Chromium	37.03
Dissolved Chromium	4.0
Total Copper	214.942
Dissolved Copper	107.377
Total Lead	75.227
Dissolved Lead	2.344
Total Zinc	7,279.96
Dissolved Zinc	4,391.33
Total and Dissolved Mercury (ng/L)	
Total Mercury	1.9
Dissolved Mercury	<0.5
General Chemistry	
Total Suspended Solids (mg/L)	580
Turbidity (NTU)	250
Particulate Organic Carbon (µg/L)	10,519

[11] http://www.nws.noaa.gov/climate/index.php?wfo=lox, accessed on June 16, 2015.

Table 5-13
Analytical Laboratory Results—Storm Event 3 (Cont.)

Analyte	PLU
Particle Size Distribution (Weight by Percentage)	
Total Gravel (greater than 2 mm)	NM
Very coarse Sand (1–2 mm)	NM
Coarse Sand (0.5–1 mm)	0.050
Medium Sand (0.25–0.5 mm)	3.82
Fine Sand (0.125–0.25 mm)	50.04
Very Fine Sand (0.0625–0.125 mm)	33.05
Total Silt and Clay (0–0.0625 mm)	13.05
Silt (0.00391–0.0625 mm)	11.06
Clay (Less than 0.00391 mm)	1.99
DDT (pg/L)	
Reported Total DDT (including less-than values)	**4,606**
Potential Total DDT (not including less-than values)	**<4,909**
2,4'-DDD (o,p'-DDD)	148
2,4'-DDE (o,p'-DDE)	127
2,4'-DDT (o,p'-DDT)	426
4,4'-DDD	205
4,4'-DDE	2,030
4,4'-DDT	1,670
4,4'-DDMU	<303
PCB (pg/L)	
Reported Total PCB (including less-than values)	**37,750**
Potential Total PCB (not including less-than values)	**<38,744**
PCB-1	10.5 J
PCB-2	16.6 J
PCB-3	15.6 J
PCB-4/10	22.2 J
PCB-5/8	97.3
PCB-6	23.8
PCB-7/9	<16.9
PCB-11	2,140
PCB-12/13	<18.1
PCB-14	<15.6
PCB-15	89.9
PCB-16/32	132
PCB-17	63
PCB-18	174 B
PCB-19	<17.8
PCB-20/21/33	243 B
PCB-22	142
PCB-23	<7.29
PCB-24/27	14 EM

Table 5-13
Analytical Laboratory Results—Storm Event 3 (Cont.)

Analyte	PLU
PCB-25	29.6
PCB-26	49.2
PCB-28	313 B
PCB-29	<7.29
PCB-30	<3.16
PCB-31	264 B
PCB-34	<6.78
PCB-35	108
PCB-36	17.9 J
PCB-37	200
PCB-38	<7.98
PCB-39	<7.87
PCB-40	97
PCB-41/64/71/72	409 B
PCB-42/59	145
PCB-43/49	281
PCB-44	477
PCB-45	59.3
PCB-46	28.8 EM
PCB-47	84.1
PCB-48/75	85.2
PCB-50	<13.1
PCB-51	20.9
PCB-52/69	516 B
PCB-53	50.4
PCB-54	<9.94
PCB-55	14.1 J
PCB-56/60	386
PCB-57	3.74 EM
PCB-58	<10.1
PCB-61/70	756
PCB-62	<9.55
PCB-63	17.7 EM
PCB-65	<9.85
PCB-66/76	452
PCB-67	21.9
PCB-68	6.25 EM
PCB-73	<9.83
PCB-74	247
PCB-77	143
PCB-78	<11.7
PCB-79	16.1 J
PCB-80	<9.10
PCB-81	10.2 J
PCB-82	212

Table 5-13
Analytical Laboratory Results—Storm Event 3 (Cont.)

Analyte	PLU
PCB-83	<19.9
PCB-84/92	485
PCB-85/116	183
PCB-86	11.6 J
PCB-87/117/125	542
PCB-88/91	145
PCB-89	<29.2
PCB-90/101	1,350
PCB-93	<25.4
PCB-94	<23.9
PCB-95/98/102	775
PCB-96	<17.8
PCB-97	392
PCB-99	472
PCB-100	<20.2
PCB-103	<20.1
PCB-104	<15.4
PCB-105	581
PCB-106/118	1,480
PCB-107/109	82.3
PCB-108/112	46.5 EM
PCB-110	1,580
PCB-111/115	24.0 EM
PCB-113	25
PCB-114	36.5
PCB-119	17.4 J
PCB-120	<16.7
PCB-121	<15.3
PCB-122	20.6
PCB-123	30.3
PCB-124	76
PCB-126	37.3
PCB-127	<17.7
PCB-128/162	439
PCB-129	136
PCB-130	170
PCB-131	<30.1
PCB-132/161	650
PCB-133/142	57.6
PCB-134/143	133
PCB-135	206
PCB-136	179
PCB-137	86.3
PCB-138/163/164	2,820
PCB-139/149	1,340

Table 5-13
Analytical Laboratory Results—Storm Event 3 (Cont.)

Analyte	PLU
PCB-140	7.76 J
PCB-141	549
PCB-144	75.4
PCB-145	<17.7
PCB-146/165	346
PCB-147	17.8 J
PCB-148	<22.9
PCB-150	<16.6
PCB-151	322
PCB-152	<16.0
PCB-153	2,450
PCB-154	20.6
PCB-155	<15.3
PCB-156	317
PCB-157	70.6
PCB-158/160	315
PCB-159	<22.1
PCB-166	<23.6
PCB-167	154
PCB-168	<18.7
PCB-169	<36.4
PCB-170	1,070
PCB-171	293
PCB-172	189
PCB-173	<18.5
PCB-174	1,050
PCB-175	35.5
PCB-176	78.3
PCB-177	568
PCB-178	130
PCB-179	251
PCB-180	2,490
PCB-181	<15.5
PCB-182/187	886
PCB-183	441
PCB-184	16 J
PCB-185	117
PCB-186	<7.93
PCB-188	<7.6
PCB-189	49.6 EM
PCB-190	181
PCB-191	48.8
PCB-192	<11.8
PCB-193	93
PCB-194	516

Table 5-13
Analytical Laboratory Results—Storm Event 3 (Cont.)

Analyte	PLU
PCB-195	247
PCB-196/203	374
PCB-197	16.7 J
PCB-198	22
PCB-199	352
PCB-200	51.2
PCB-201	48.4
PCB-202	105
PCB-204	<19.2
PCB-205	<37.8
PCB-206	170
PCB-207	30.1
PCB-208	38.1 EM
PCB-209	75.8

µg/L = micrograms per liter; µm = micrometers; B = compound was also measured in the method blank; D = dilution; EM = estimated maximum; J = amount detected is below the low calibration limit; mg/L = milligrams per liter; mm = millimeters; ng/L = nanograms per liter; NM = not measured (insufficient particle volume in sample for analysis); NTU = nephelometric turbidity units; PCB = polychlorinated biphenyl; pg/L = picograms per liter; PLU = Port Land Use (Pier A)

6.0 DISCUSSION

6.1 Dry Weather

During this special study, one dry weather monitoring event was conducted and monitoring sites DC and LAR were sampled. Flow-weighted composite samples were collected at both sites. Monitoring site LAR, in comparison to monitoring site DC, had higher reported concentrations of total DDTs (1,106 pg/L to 489 pg/L) and total PCBs (3,380 pg/L to 1,140 pg/L). Monitoring site LAR also had a significantly higher recorded flow volume during the dry weather monitoring event (23,117,000 cubic feet [cf] to 566,000 cf).

6.2 Storm Events

During this special study, three storm events were monitored. Monitoring sites DC, LAR, PLU, and FWL were each sampled during two storm events; monitoring sites TL and ML were each sampled during one storm event. Flow-weighted composite samples were collected at monitoring sites DC, LAR, TL, and PLU; grab samples were collected at monitoring sites FWL and ML.

Two storm events were monitored at monitoring sites DC, LAR, PLU, and FWL. An average event mean concentration (EMC) of the two storm events for each of these monitoring sites is presented in Table 6-1 and Table 6-2.

Monitoring sites TL and ML were each sampled during one storm event, so the calculation of an average EMC for them is not applicable. The average EMC was determined by calculating the percentage of flow each storm event represented, then using that percentage to weight the EMC from that storm event as a percentage of the total monitored storm event EMC.

Table 6-1.
Total DDT Average Event Mean Concentration

Site	Storm Event	Flow (cf)	Percent of Monitored Flow	EMC (pg/L)	Percentage x EMC	Average EMC (pg/L)
Dominguez Channel	Storm Event 1	16,460,000	28.5%	25,702	7,325.07	51,784
	Storm Event 2	41,233,000	71.5%	62180	44,458.70	
Los Angeles River	Storm Event 1	217,034,000	21.8%	20,232	4,410.58	33,904
	Storm Event 2	778,264,000	78.2%	37,716	29,493.91	
Freshwater Lens	Storm Event 1	16,460,000	28.5%	55,591	15,843.44	43,627
	Storm Event 2	41,233,000	71.5%	38,858	27,783.47	
Port Land Use (Pier A)	Storm Event 2	63,000	98.8%	3,358	3,317.70	3,373
	Storm Event 3	766	1.2%	4,606	55.27	

cf = cubic feet; DDT = dichlorodiphenyltrichloroethane; EMC = event mean concentration; pg/L = picograms per liter

Table 6-2.
Total PCB Average Event Mean Concentration

Site	Storm Event	Flow (cf)	Percent of Monitored Flow	EMC (pg/L)	Percentage x EMC	Average EMC (pg/L)
Dominguez Channel	Storm Event 1	16,460,000	28.5%	20,300	5,785.50	60,817
	Storm Event 2	41,233,000	71.5%	76967	55,031.41	
Los Angeles River	Storm Event 1	217,034,000	21.8%	37,400	8,153.20	57,861
	Storm Event 2	778,264,000	78.2%	63,565	49,707.83	
Freshwater Lens	Storm Event 1	16,460,000	28.5%	12,300	3,505.50	11,725
	Storm Event 2	41,233,000	71.5%	11,496	8,219.64	
Port Land Use (Pier A)	Storm Event 2	63,000	98.8%	26,620	26,300.56	26,754
	Storm Event 3	766	1.2%	37,750	453.00	

cf = cubic feet; EMC = event mean concentration; PCB = polychlorinated biphenyl; pg/L = picograms per liter

The data obtained during this special study indicate that PCBs and DDTs are being sourced to San Pedro Bay from watershed sources.

6.3 Mid-Column Sediment Study

The average reported TSS and turbidity values are presented in Table 6-3 and Table 6-4, for Dominguez Channel and the Los Angeles River, respectively.

Table 6-3.
Dominguez Channel Mid-Column Sampling Average Results

Analyte	Bottom (MES)	Mid Water Column (Bridge)
Total Suspended Solids (mg/L)	94	111
Turbidity (NTU)	64	58

mg/L = milligrams per liter; NTU = nephelometric turbidity units

Table 6-4.
Los Angeles River Mid-Column Sampling Average Results

Analyte	Bottom (MES)	Mid Water Column (Bridge)
Total Suspended Solids (mg/L)	258	357
Turbidity (NTU)	137	202

mg/L = milligrams per liter; NTU = nephelometric turbidity units

7.0 REFERENCES

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U.S. Environmental Protection Agency (USEPA), 2007a. *Method 1699: Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS*.[12]

USEPA, 2007b. Method 6020A: *Inductively Coupled Plasma Mass Spectrometry*.

USEPA, 2010. Method 1668C: *Chlorinated Biphenyl Congeners in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS*.[12]

[12] HRGC = high resolution gas chromatography; HRMS = high resolution mass spectrometry

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APPENDIX A

SAMPLING AND ANALYSIS PLAN

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FINAL
SAMPLING AND ANALYSIS PLAN
HARBOR TOXICS TOTAL MAXIMUM DAILY LOAD
WATERSHED LOADING ESTIMATION—STORM WATER

Prepared for:

925 Harbor Plaza	**425 South Palos Verdes Street**
Long Beach, California 90802	**San Pedro, California 90733**
Contract No. HD-8101	**Agreement No. 13-3141**
Job Task No. 1311	**Project Directive No. 13**
	ADP No. 970203-532 W
AMEC Project No. 1315100111	**AMEC Project No. 1315102713**

Prepared by:
AMEC Environment & Infrastructure, Inc.
San Diego, California

January 2014

IMPORTANT NOTICE

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ACRONYMS AND ABBREVIATIONS

%	percent
°C	degrees Celsius
µg/L	micrograms per liter
µS	microSiemens
ADR	automated data review
AMEC	AMEC Environment & Infrastructure, Inc.
AVB	area velocity bubbler
CA	California
CD	compact disc
cf	cubic foot/feet
cm	centimeter(s)
COC	chain of custody
DC	Dominguez Channel
DDD	tetrachlorodiphenylethane
DDE	dichlorodiphenyldichloroethylene
DDMU	p,p'-2,2-bis(chlorophenyl)-1-chloroethylene
DDT	dichlorodiphenyltrichloroethane
DO	dissolved oxygen
DQO	data quality objective
EC	electrical conductivity
eCOC	electronic chain of custody
EDD	electronic data deliverable
EDL	estimated detection limit
Everest	Everest International Consultants
FWL	freshwater lens
Harbor Toxics Total Maximum Daily Load	*Final Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters Toxic Pollutants Total Maximum Daily Load* (RWQCB and USEPA, 2011)
HASP	health and safety plan
HDPE	high-density polyethylene
HVF	head versus flow

ACRONYMS AND ABBREVIATIONS (Cont.)

ID	identification
in.	inch(es)
JHA	job hazard analysis
L	liter(s)
LACDPW	Los Angeles County Department of Public Works
LAR	Los Angeles River
LARWQCB	Los Angeles Regional Water Quality Control Board
LOD	limit of detection
mA	milliampere(s)
MDL	method detection limit
mg/L	milligrams per liter
ML	Machado Lake
mS	milliSiemens
ng	nanogram(s)
NOAA	National Oceanographic and Atmospheric Administration
NTU	nephelometric turbidity unit(s)
NWS	National Weather Service
O&M	operations and maintenance
PCB	polychlorinated biphenyl
pg/L	picograms per liter
PLU	Port land use
POC	particulate organic carbon
POLB	Port of Long Beach
POLA	Port of Los Angeles
ppt	parts per thousand
PQAPP	programmatic quality assurance project plan
PSTM	post-sampling technical memorandum
QA	quality assurance
QAPP	quality assurance project plan
QC	quality control

ACRONYMS AND ABBREVIATIONS (Cont.)

RL	reporting limit
RWQCB	Regional Water Quality Control Board
SAP	sampling and analysis plan
SWAMP	surface water ambient monitoring program
SWRCB	State Water Resources Control Board
TL	Torrance Lateral
TMDL	total maximum daily load
TSS	total suspended solids
USEPA	United State Environmental Protection Agency
VDC	volts direct current
YSI	Yellow Springs Instruments

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1.0 PROJECT MANAGEMENT

1.1 Project Background

In 2011, the *Final Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters Toxic Pollutants Total Maximum Daily Load* (Harbor Toxics Total Maximum Daily Load [TMDL] was adopted by the Los Angeles Regional Water Quality Control Board (LARWQCB) and the United States Environmental Protection Agency (USEPA). The Harbor Toxics TMDL includes contaminant limits (surface sediment, storm water effluent, and fish tissues) that are defined as target loads (concentrations) for compliance by 2032. The Harbor Toxics TMDL was established to protect marine life and minimize human health risks from the consumption of fish.

The City of Long Beach (including the Port of Long Beach [POLB]) and the City of Los Angeles (including the Port of Los Angeles [POLA]) are identified in the Harbor Toxics TMDL as two of the responsible parties. Consequently, the Ports of Long Beach and Los Angeles (Ports) are, together with other stakeholders, responsible for complying with the Harbor Toxics TMDL and ultimately identifying and reducing sediment and fish tissue concentrations in harbor waters to levels that do not cause further social or environmental harm (Anchor QEA, 2013).

1.2 Project Description

The Watershed Loading Estimation—Storm Water project, is a special study to provide higher-resolution data of polychlorinated biphenyl (PCB) and dichlorodiphenyltrichloroethane (DDT) concentrations in storm water and dry weather flows into the Ports' jurisdictions from the watersheds of the Los Angeles River and the Dominguez Channel. The goals of this project, as well as the basic methods, have vetted through the Harbor Technical Working Group (HTWG), composed of the Ports, LARWQCB, SWRCB, and Southern California Coastal Water Research Project.

Typically, results reported below the method detection limit (MDL) by laboratories are assumed to be one-half of the MDL for use in modeling (Tetra Tech, 2006). Modeling was ultimately used in the development of the Harbor Toxics TMDL (Tetra Tech, 2010).

This project differs from previous studies by utilizing a recently emerged technology known as high-volume sampling (for an example, please see Stewart, 2009), which has the potential to attain ultra-low detection limit analysis for project-specific contaminants of concern. For this study, the identified contaminants of concern and the target reporting limits are as follows:

- PCB congeners at a reporting limit (RL) of 1 picogram per liter (pg/L) and sub-pg/L MDL (USEPA, 2010)
- DDTs at sub-nanogram per liter (ng/L) RL and MDL (USEPA, 2007a)
- Metals at a sub-microgram per liter (µg/L) RL and MDL (USEPA, 2007b)

The results of this special study will be used to refine boundary conditions for the TMDL model. The primary use of the data will be to inform the bioaccumulation model for DDTs and PCBs. Metals data are also being collected as an opportunity to inform the broader TMDL.

No quality assurance project plan (QAPP) specific to this special study will be developed. Instead, the final version of the programmatic quality assurance project plan (PQAPP) (developed by Anchor QEA for the Ports) will be used as the project-specific QAPP for this special study (Anchor QEA, 2013).

1.3 Project Management and Organization

1.3.1 Ports

The Ports are overseeing this project, represented by James Vernon (POLB) and Andrew Jirik (POLA) as the program managers.

1.3.2 AMEC

AMEC Environment & Infrastructure, Inc. (AMEC) is the consultant hired by the Ports to perform the project work. The AMEC project team management will be:

- Barry Snyder, the project manager for AMEC, who will oversee the project
- Tommy Wells, the AMEC assistant project manager, who will be responsible for project coordination, scheduling, budget management, and oversight of project plans and deliverable development; he will also be the AMEC field coordinator and laboratory coordinator (responsible for developing the monitoring approach and for preparing and implementing the monitoring activities) and the AMEC reporting manager
- Chris Stransky, the AMEC quality assurance officer, who will be responsible for the project QA and quality control (QA/QC) procedures implemented during sampling, laboratory analysis, data management, and data analysis
- Tyler Huff, the AMEC health and safety officer, who will be responsible for implementing the project health and safety plan and practices
- William Szafranski, the AMEC database manager, who will develop and maintain the database of project data

1.3.3 Laboratories

Vista Analytical Laboratories, Inc. (Vista) of El Dorado Hills, California (CA), will be responsible for the subsampling and preservation of water quality samples and for the analysis of PCBs and DDTs. Jennifer Miller, as the Vista project manager, will be responsible for the subsampling, preservation, and proper analysis of samples in accordance with the methods and quality assurance requirements outlined in this sampling and analysis plan (SAP).

Physis Environmental Laboratories, Inc. (Physis) of Anaheim, CA, will decontaminate the equipment and analyze the water samples for total and dissolved metals. Misty Mercier, as the Physis project manager, will be responsible for the proper analysis of samples in accordance with the methods and quality assurance requirements outlined in this SAP.

Calscience Environmental Laboratories, Inc. (Calscience) of Garden Grove, CA, will analyze the water samples for particulate organic carbon (POC), total suspended solids (TSS), particle size, and turbidity. Danielle Gonsman, as the Calscience project manager, will be responsible for the proper analysis of samples per the methods and quality assurance requirements in this SAP.

1.3.4 Organization

The Watershed Loading Estimation—Storm Water project organization is in Figure 1-1.

1.4 Monitoring Personnel

Water quality and hydrologic monitoring requires a variety of skills and positions. The monitoring team includes, but is not limited to, the project manager, field coordinator, and field technicians.

Project Manager—During monitoring events the project manager will oversee the status of the project by communicating with the assistant project manager. The project manager will provide direction and support as needed.

Assistant Project Manager—During monitoring events, the assistant project manager will oversee the status of the monitoring stations by communicating with field crews. The assistant project manager must be able to obtain and interpret the most recent hydrologic data and weather forecasts to determine the appropriate volume-to-sample values (the volume of runoff to flow past the station before each sample aliquot is taken) for composite sampling, as well as to make informed decisions regarding the monitoring event status. The assistant project manager will also notify personnel of changes in the shift start and end times. The assistant project manager must have excellent decision-making and dispatching skills, as well as a thorough understanding of the project requirements. The project manager should fill this position if the assistant project manager is unavailable.

Field Coordinator—The field coordinator will be a technically skilled, experienced field supervisor and the most experienced member of the field team. This position requires an understanding of project requirements, sampling procedures, and equipment operations. The field coordinator will communicate frequently with the project manager to determine task priorities; will monitor the ability of field teams to complete their shifts safely and effectively; and will notify the project manager of the need for relief teams. The field coordinator must be able to troubleshoot the problems commonly experienced by the field team; will direct the procedures at each site visit; will make sure that data are recorded properly; and will also provide on-site weather observations for the project manager.

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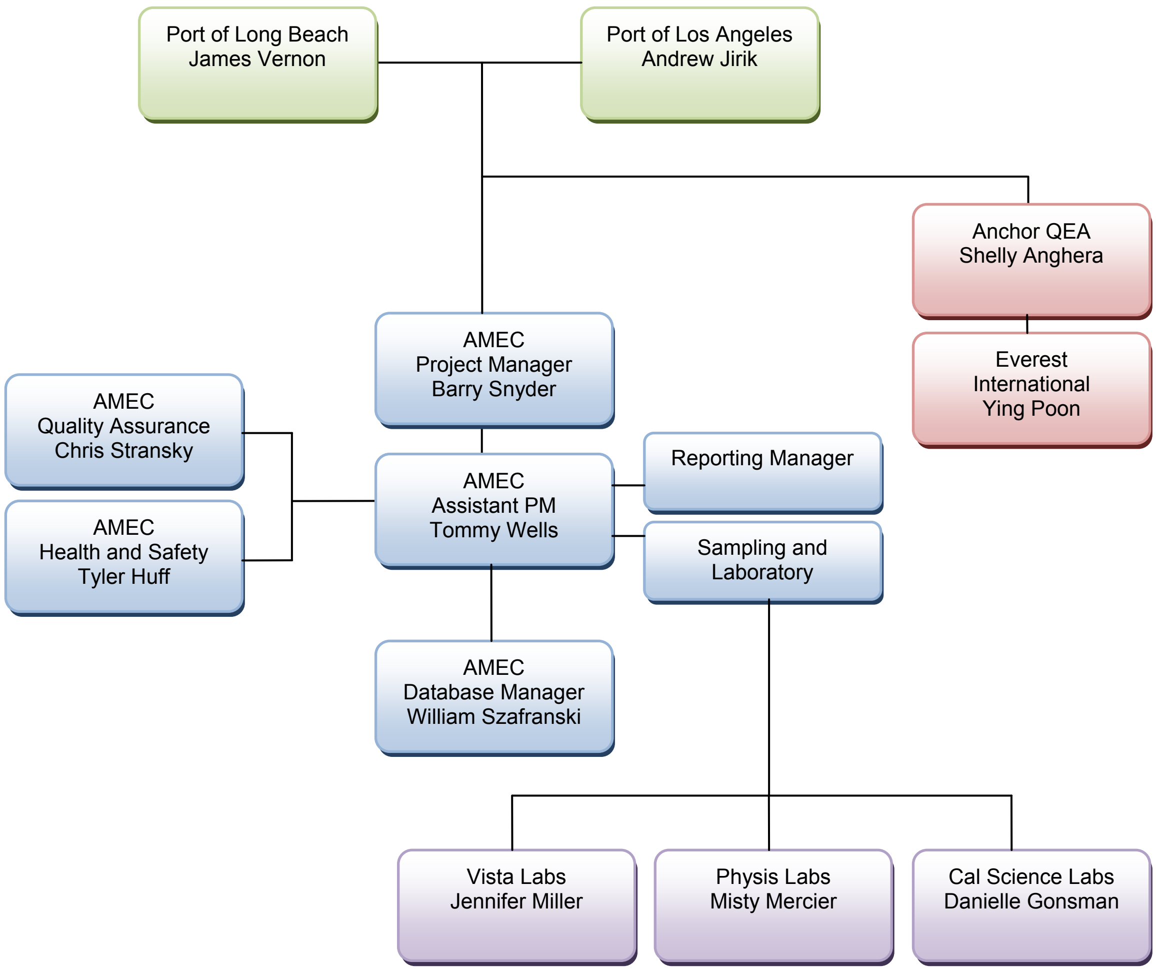
Figure 1-1. Project Organization Structure



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Field Technicians—Depending on the number of sites being monitored for a given monitoring event, two to nine field technicians will assist the field coordinator, including serving as couriers. Field technicians are field personnel trained in water quality sample collection and health and safety requirements.

1.5 Special Training, Certification, and Permits

1.5.1 Training

For sample preparation tasks, field technicians will be trained in standardized clean sample-handling techniques so that the samples collected and data generated are consistent among field crews. The field coordinator will train field technicians in collecting and processing surface water, decontamination protocols, and sample transport and chain-of-custody procedures.

Each field technician will review the project's health and safety plan (HASP) (Appendix A) and consult with the AMEC field coordinator regarding any questions before mobilization. The field coordinator will train field technicians in the sampling protocols and procedures in accordance with this SAP and the PQAPP.

1.5.2 Permits

AMEC will support the Ports in the permitting process with the Los Angeles County Department of Public Works (LACDPW) and the City of Los Angeles to obtain access to the proposed monitoring sites located on their rights-of-way. No equipment installation or monitoring activities can proceed until approved permits have been received from the relevant agencies.

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2.0 DATA GENERATION AND ACQUISITION

2.1 Monitoring Sites

Based on the objectives of this project and a site reconnaissance conducted on August 8, 2013, six locations have been selected and appear to be viable monitoring sites. These sites were selected to characterize PCB and DDT concentrations discharging to the Ports' jurisdictions from the watersheds of the Los Angeles River and the Dominguez Channel.

The monitoring site coordinates and the site identifications (IDs) are presented in Table 2-1, and an aerial view of the monitoring site locations is on Figure 2-1.

Table 2-1.
Monitoring Site Locations

Site Name	Site ID	Latitude	Longitude
Los Angeles River	LAR	33.817357	-118.206239
Dominguez Channel	DC	33.872551	-118.311077
Torrance Lateral	TL	33.844668	-118.279853
Pier A	PLU	33.773815	-118.230841
Machado Lake	ML	33.778996	-118.282555
Freshwater Lens	FWL	33.777050	-118.241342

2.1.1 Flow-Weighted Composite Monitoring Sites

2.1.1.1 Los Angeles River Downstream of Wardlow Road (LAR)

This monitoring site is located just downstream of West Wardlow Road (at 33.817357, −118.206239) and adjacent to the 710 Freeway, where there is an existing Los Angeles Department of Water and Power (LACDPW) monitoring station for continuous-flow and periodic water quality monitoring. The site is a trapezoidal channel with a low-flow channel within the main channel, and appears to be above tidal influence. AMEC accessed the site during the site reconnaissance via a bike path off of West Wardlow Road. Figure 2-2 is a photograph of the site.

2.1.1.2 Dominguez Channel Downstream of Artesia Street (DC)

This monitoring site is located just downstream of West Artesia Boulevard (at 33.872551, −118.311077), where there is an existing LACDPW monitoring station. The site is a rectangular channel with a trapezoidal low-flow channel within the main channel, and appears to be above tidal influence. Figure 2-3 is a photograph of the site.

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Legend

Monitoring Site

Figure 2-1.
Monitoring Site Locations

Map Notes: Produced for POLA/POLB
Harbor Toxics TMDL Monitoring
Date: 11/26/2013

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Figure 2-2. Los Angeles River Monitoring Location (LAR)

Figure 2-3. Dominguez Channel Monitoring Location (DC)

2.1.1.3 Torrance Lateral Downstream of South Main Street (TL)

This monitoring site is located just downstream of South Main Street (at 33.844668, −118.279853), where there is an existing LACDPW monitoring station. The site is a rectangular channel, and appears to be above tidal influence. This site is downstream of the former Montrose Chemical Plant (USEPA Superfund Site) storm water pathway (Kenwood Ditch), which is a likely source of DDTs. Figure 2-4 is a photograph of the site. (http://yosemite.epa.gov/r9/sfund/r9sfdocw.nsf/3dec8ba3252368428825742600743733/b7db9903773ec7418825700700 5e93ed, accessed on November 14, 2013)

Figure 2-4. Torrance Lateral Monitoring Location (TL)

2.1.1.4 Port Land Use Site (Pier A) (PLU)

Port land use contributions will be represented by Pier A, which is located on the Port of Long Beach (at 33.773815, −118.230841). Pier A drains to the north, away from Cerritos Channel, which borders it on the south. Runoff is collected in a storm water pump station vault where flow is collected then pumped into the Cerritos Channel. A non-tidally intruded 36-inch pipe is available and suitable to use for monitoring runoff from Pier.

2.1.2 Grab Sample Monitoring Sites

2.1.2.1 Machado Lake Overflow (ML)

This monitoring site is located within Ken Malloy Harbor Regional Park (at 33.778996, −118.282555). The selected monitoring site is accessed through a locked gate adjacent to the intersection of West Anaheim Street and Road 3. Figure 2-5 is a photograph of the site.

Figure 2-5. Machado Lake Monitoring Location (ML)

2.1.2.2 Consolidated Slip / Dominguez Channel Freshwater Lens (FWL)

Dominguez Channel as it enters into Consolidated Slip (at 33.777050, −118.241342) has been selected as the preferred location to sample the freshwater lens that should be produced during storm events. However, this monitoring location is dynamic and is subject to alteration, based on conditions encountered during the storm event. If a freshwater lens cannot be located at this site or if it is not thick enough to successfully sample without introducing saline water, the next publically accessible location upstream will be attempted until a freshwater lens of sufficient thickness is located, if present. Section 2.3.2.5 presents the criteria for sampling the freshwater lens.

2.2 Sampling Process Design

This section describes the type of equipment proposed to be used to complete the Watershed Loading Estimation—Storm Water project, as well as the installation and maintenance procedures. Flow and water quality monitoring are dynamic processes that may require modification, depending on current site and channel conditions. Thus, the methodologies presented are subject to modification in order to meet the project objectives.

2.2.1 Sampling Equipment

2.2.1.1 Inventory, Maintenance, and Calibration

The field coordinator or designee will maintain inventories of field instruments and equipment and will prepare, document, and implement preventative maintenance. The frequency and types of maintenance will be based on the manufacturer’s recommendations and/or previous experience with the equipment. Detailed information regarding the calibration and frequency of equipment calibration is provided in the specific manufacturers’ instruction manuals.

2.2.1.2 Selected Equipment

The selected monitoring equipment is designed to measure flow and collect composite samples in a flow-proportioned manner. The selected equipment has been found to be appropriate to meet the project objectives and has been successfully used in other regional water quality monitoring studies. These features reduce the operating effort and increase the reliability and quality of the water quality and flow monitoring data.

Composite Samples
The following equipment components will be installed at the four composite monitoring site locations (LAR, DC, TL, and PLU):

- Plasti-Fab Model 3A fiberglass enclosure
- American Sigma 950 area velocity bubbler (AVB) data-logging flow meter with bubbler pressure transducer (watershed sites) or AVB sensor (PLU)
- Hach SD900 or American Sigma 900 MAX with remote pump (LAR) automated composite sampler with Teflon®-lined intake tubing and stainless steel low-profile intake strainer
- 12-volt direct current (VDC) deep-cycle rechargeable gel-cell marine battery
- Yellow Springs Instruments (YSI) 6-series water quality sonde with sensors for pH, electrical conductivity (EC), temperature, dissolved oxygen (DO), and turbidity

The specific configuration at each site will depend on the conditions encountered during equipment installation.

Grab Samples
No equipment will be permanently installed at grab sample locations. The following equipment will be used at the two grab sample monitoring locations (ML and FWL):

- Hach SD900 sampler with Teflon-lined intake tubing and Teflon intake strainer
- 12-VDC rechargeable gel-cell portable battery
- Oakton CON10 pH, EC, and temperature meter (to determine salinity)

2.2.1.3 Flow Meters

American Sigma 950 AVB flow meters log and calculate flow based on measured parameters. Water stage is measured with a stainless steel bubbler pressure transducer installed in the conveyance. A pressure transducer translates the proportional relationship of the hydrostatic pressure on a pressure plate compared to an atmospheric vent to estimate the water level. Water velocity (PLU) is measured using Doppler technology, which rates the velocity of particles in the water. The water must have sufficient suspended solids to obtain a velocity reading.

The flow meter allows for programming of either the head versus flow (HVF) table or the geometry of the conveyance and, based on input from the bubbler and velocity sensors, the flow meter calculates instantaneous flow estimates. The flow meters also have inputs for a rain gauge and sampler communication. This project will utilize HVF tables at the watershed sites (LAR, DC, and TL) and the area-velocity method at PLU.

The data logging feature of the American Sigma 950 AVB flow meter is a required component of any flow-weighted sampling station. This flow meter can be connected to an automated sampler through a 4–20 milliampere (mA) range output. In this configuration, the flow meter provides a method to control (pace) the sampler, and to store sampling data and additional auxiliary data.

The flow meter will measure and log flow levels and sample history. One-minute average flow data will be recorded in the flow meters during monitored events. The flow meters convert instantaneous flow into total runoff volume. Data containing storm and hydrological information are electronically stored in the flow meter, with each monitoring event stored separately. The recorded information includes:

- Flow rates
- Time of peak flow rate
- Discharge volume totals
- Time of each sample
- Success or failure of each sample

2.2.1.4 Automated Samplers

The Hach SD900 and the American Sigma 900MAX automated sampling systems consist of a stainless steel intake strainer, Teflon-lined intake tubing, flexible silicon pump tubing, a peristaltic pump, sample bottle(s), and a controller. These samplers will be used to collect flow-weighted composite samples during this project. Because of the height and vertical distance at which samples will need to be pulled from, a modified remote pump will be required at LAR.

The intake tubing and intake strainers will be securely fastened at the desired sampling point in the runoff flow stream. The intake tubing will be housed in protective conduit and then attached to the flexible silicon pump tubing at the sampler. This tubing will run through the sampler's peristaltic pump into the composite sample bottle(s).

Based on the debris observed in the channels and historical experience, intakes installed on the channel bed could be destroyed during storm conditions. Secondary intakes will be carried by field crews and deployed if a primary intake fails.

2.2.1.5 Power

The Hach SD900 and American Sigma 900MAX automated samplers and the American Sigma 950 AVB flow meters will be powered by a 12-VDC rechargeable gel-cell power source.

2.2.1.6 Equipment Security Housing

Monitoring equipment will be mounted within Plasti-Fab Model 3A fiberglass enclosures. These enclosures will deter theft of equipment during the non-monitored period and will reduce contamination risks during monitoring. These enclosures are approximately five feet by two and one-half feet, and six feet high. They will be anchored to existing concrete and kept locked when monitoring teams are not on site.

2.2.1.7 Bottles

Per USEPA guidance, samples will be collected in glass using Teflon-lined tubing and stainless steel strainers. Plastic containers are not an approved option for DDT and PCB collection (USEPA, 2007a; and USEPA, 2010).

Because of the low-level analysis to be performed, atmospheric exposure of water samples during sampling and sample transfer is a concern for this project that must be addressed sufficiently. Contamination and off-gassing significantly elevate the potential sources of error compared to traditional sampling. Nineteen-liter glass bottles have been selected for sampling. The intake tubing will enter the bottle through a hole in the bottle stopper that should be airtight (i.e., sealed between the intake tubing and stopper). However, a vent hole to allow air to exit the bottle as it is filled will allow for atmospheric exposure. This vent hole is required and will be only approximately 1/8 inch (in.) in diameter, which will minimize atmospheric exposure. Upon completion of sampling or bottle change, a sealed stopper will replace the vented stopper and so will further minimize atmospheric exposure.

2.2.1.8 Water Quality Sondes

YSI 6-series data logging sondes with sensors for pH, EC, temperature, DO, and turbidity will be installed at each of the four composite monitoring sites.

2.2.1.9 Conductivity Meter

A conductivity and salinity meter is required to determine the presence of a freshwater lens at FWL; one Oakton CON10 meter will be used.

2.2.2 Equipment Installation

Upon approval from the LACDPW, City of Los Angeles, the Ports, and any other relevant agencies, AMEC will install the appropriate equipment at the selected sites. Ideal installation procedures are detailed below. However, field technicians will mount equipment securely, using their best professional judgment based on site conditions encountered during equipment installation.

2.2.2.1 Equipment Security Housing

The fiberglass enclosures will be mounted to existing concrete using concrete anchors. The preferred mounting location will be parallel to the location of the sample intake and flow sensor in the stream.

Automated Sampler
The automated sampler will be securely mounted to the inside of the enclosure and positioned above a bucket where a 19L bottle is easily accessible for bottle changes during monitoring events.

Flow Meter
The flow meter will be securely mounted to the inside of the enclosure and positioned so that readings are easily viewable during monitoring events.

2.2.2.2 In Stream

Conduit will be used to protect sample intake and flow sensor lines from the monitoring location in the stream to the equipment housing. Conduit will be securely fastened with stainless steel brackets, screws, and anchors.

Flow Sensor
The flow sensor will be mounted near to the horizontal center of the channel. The flow sensor will be mounted to the bottom of the channel using stainless steel concrete anchors.

Sample Intake
The stainless steel sample intake will be mounted near to the horizontal center of the channel. The sample intake will be mounted to the bottom of the channel using stainless steel concrete anchors.

Water Quality Sonde
The water quality sonde will be housed in a protective case constructed of PVC and will be anchored to a location in the channel where it can measure both dry and storm flows. The water quality sonde will be located in proximity to the sample intake and flow sensor, however, it will not be mounted on the bottom of the channel. The depth of dry flows encountered during installation will determine the approximate depth the water quality sonde will be installed at. The water quality sonde will be mounted near the horizontal center of the channel if conditions allow.

2.2.3 Stream Flow Rating Curve Development

Stream rating curves and tables will be provided to AMEC by Everest International Consultants (Everest) for the LAR and DC sites.

At the TL site, AMEC will survey the slope and cross section, and develop a rating curve based on Manning's equation. If flow is sufficient, the site will be gauged at low flow (by wading rod or the leaf method) to confirm or adjust the curve in order to estimate flow more accurately.

2.2.4 Historical Data Review

A review of historical flow data from LACDPW will be conducted to assess the flow-to-rainfall ratio so that appropriate sample pacing is more likely to be selected for the flow-weighted composite sampling. To perform this analysis, flow data will be obtained from Everest and precipitation data will be obtained from Everest, the National Oceanic and Atmospheric Administration (NOAA), or other publicly available data sources.

2.2.5 Long-Term Flow Monitoring

During non-monitored periods (i.e., no active sampling is being undertaken), AMEC will not be responsible for flow data. Third-party flow data (LACDPW) will be used for non-monitored periods and will be obtained by Everest.

2.2.6 Rainfall Monitoring

AMEC is not responsible for collecting rainfall data during this project. Third-party rainfall data (LACDPW and National Weather Service [NWS]) will be used and will be obtained by Everest.

2.2.7 Target Sample Volume

This project seeks to provide ultra-low detection limits using high-volume sampling techniques. To produce a reasonable expectation that the target RLs and MDLs can be achieved, a minimum sample volume of ≥25 liters (L) is required to be collected per site per monitoring event. A sample volume of at least 50 L per site per monitoring event will be targeted to provide contingency sample.

2.2.8 Equipment Removal

Following completion of the monitoring and upon approval from the Ports, AMEC will remove the monitoring stations and return the sites to pre-project conditions, within reason. Equipment will be cleaned and stored in a manner consistent with best practice.

2.3 Sampling Methods

AMEC will monitor and sample the selected monitoring sites as detailed below. AMEC will aim to conduct the dry weather sampling event prior to storm event sampling. This will provide an opportunity to verify equipment performance and to assess delivery logistics without the added constraints of storm event sampling.

2.3.1 Dry Weather

2.3.1.1 Sites To Be Sampled

AMEC will conduct the following dry weather event sampling:

- One sampling at the Los Angeles River (LAR) and Dominguez Channel (DC) monitoring sites

There will be no sampling at the Torrance Lateral (TL) and Pier A (PLU) sites, and no sampling at the grab sample sites (Machado Lake Overflow [ML] and Dominguez Channel/Consolidated Slip Freshwater Lens [FWL]).

2.3.1.2 Weather Tracking

After equipment installation, AMEC will monitor the weather forecast for a suitable date on which to monitor. The criteria for the dry weather monitoring event are:

- An antecedent dry weather period of at least 72 hours within the target watersheds, and
- No rainfall forecast for at least 48 hours from the target time of the first sample of the monitoring event, and
- Best professional judgment indicates that the stream has returned to base flow conditions following recent rainfall, if any.

2.3.1.3 Deployment

Monitoring for both the flow and water quality of runoff requires considerable planning prior to the event. Obtaining representative samples is possible only when using well-trained and alert field teams. It is critical to plan and prepare for numerous aspects of the field work well in advance of a monitoring event. Each mobilization team will be made up of two field technicians. A staffing plan will designate the personnel and equipment required for each facet of each monitoring event.

The staffing plan will include the personnel assigned for monitoring, their work shifts (e.g., start-up and relief), equipment mobilization, and communication channels.

Ideally, during the dry weather event two field technicians will monitor the two monitoring sites. The field coordinator will be available to answer questions and will periodically visit the two dry weather monitoring sites. A third field technician will be designated to courier samples to the analytical laboratories following the successful capture of the dry weather monitoring event.

Communication channels must be established so personnel can efficiently communicate with each other before and during the event. Cellular telephone communication will link the project manager and the field coordinator with field teams, so they can track the location and workload of each field team and direct them to priority tasks. The project field notebook will include telephone lists with the home, work, and cellular numbers of the AMEC field team, and the work numbers of the primary laboratory contacts and Port personnel.

2.3.1.4 Mobilization Equipment

The equipment needed for water quality sampling includes sampling equipment, containers, field vehicles, mobile communication, and safety equipment (see Table 2-2). The equipment should be loaded into the field vehicles early in the preparation sequence.

During the monitoring season, field crews will use the specific equipment listed in Table 2-2.

Table 2-2.
Dry Weather Monitoring Event Equipment List

Mobilization	Monitoring Event
Field notebook (including Job Hazard Analysis [JHA] and Tailgate Safety Meeting forms)	Flashlights (2)
Paper towels	Maps
Spare chain- of–custody forms	High-quality alkaline D-cell batteries
Sample control paperwork	Spare sample labels
Extra-fine indelible markers	Pencils and indelible markers
19-liter borosilicate glass bottles	Desiccant (packages and jar)
Cellular telephone	Diagonal clipper
Digital or disposable camera	Cable ties (assorted sizes)
Necessary safety gear (see Appendix A—Health and Safety Plan)	Utility knife
Secondary sample intake for each composite site	Ziploc® bags (assorted sizes)
	Nitrile gloves
	Keys

2.3.1.5 Collection of Composite Samples

Prior to a monitoring event, stations must be prepared for monitoring, including:

- Verifying that the automated samplers and flow monitoring equipment have been calibrated and are operational
- Verifying that the system pumps are functioning as designed
- Clearing the flow sensors of debris
- Pre-icing the composite sample bottles
- Performing general equipment inspections to verify that the sites are operational

The composite sample bottles will be iced when the samplers are enabled. From the time that the first sample aliquot is delivered to the composite sample bottle, there must be sufficient ice around the bottle(s) to maintain a sample temperature of four degrees Celsius (°C) or lower.

AMEC will enable the composite monitoring stations and flow-weighted composite samples will be collected over a 24-hour period.

At flow-weighted sampling sites, a sample aliquot will be collected after a programmed volume of flow (the "pacing") has passed the flow monitoring point. The pacing selection is based on estimated dry weather runoff volumes, so that an appropriate number of aliquots will be collected to provide sufficient sample volume. The automated sampler will be programmed to collect sample aliquots into a 19-L borosilicate glass bottle.

2.3.1.6 *In-Situ* Field Measurements

Additionally, *in-situ* field measurements (listed in Table 2-3) will be collected during dry weather monitoring events at the two dry weather composite sample monitoring sites.

Table 2-3.
***In-Situ* Field Measurements**

Constituent	Method	Units
pH	YSI 6600 Series Sonde	pH units
Electrical Conductivity		MicroSiemens per centimeter (µS/cm)
Temperature		Degrees Celsius (°C)
Dissolved Oxygen		Milligrams per liter (mg)/L
Turbidity		Nephelometric turbidity units (NTU)

2.3.2 Wet Weather

2.3.2.1 Sites To Be Sampled

AMEC will conduct the following storm event sampling:

- During two qualifying storm events at the Los Angeles River (LAR), Dominguez Channel Artesia (DC), and Dominguez Channel Freshwater Lens (FWL) sites
- During one qualifying storm event at the Pier A (PLU), Torrance Lateral (TL), and Machado Lake Overflow (ML) sites

2.3.2.2 Weather Tracking and Storm Selection Criteria

After the monitoring equipment has been installed, AMEC will track the weather forecast daily, using the NWS forecasts available at http://www.wrh.noaa.gov/lox/.

Storm events predicted to produce at least 0.25 in. of rainfall in a 24-hour period with at least 0.10 in. of rainfall occurring within a 6-hour period and at least a 70% chance of rainfall will be considered viable for monitoring. These criteria must be forecast at least 24 hours prior to the predicted onset of rainfall to allow for preparing the monitoring stations. Storms forecast to produce ≥0.75 in. of rainfall within a 24-hour period will be considered preferable.

AMEC will target one storm event in January 2014 and one storm event in February–April 2014. This should allow early season storms to increase ground moisture and base flow levels in streams, which should increase the ratio of runoff volume to rainfall and thus the likelihood of successfully collecting samples at the Machado Lake and Freshwater Lens sites. This will also allow early season flow data to be analyzed. These criteria are subject to change, based on the number of storms, cumulative rainfall amount, and average storm rainfall intensity that materializes during the 2013–2014 wet weather season.

If possible, selected storms will be coordinated with LACDPW's sampling activities to maximize the use of LACDPW's TSS data.

2.3.2.3 Deployment

Once a storm event forecast meets the requirements of Section 2.3.2.2 AMEC will consult with the Ports and provide a go/no-go recommendation to the Ports. Upon approval from the Ports, AMEC will mobilize to capture selected storm event. Once rainfall has begun or appears imminent (based on updated forecasts and available radar, satellite, and rain gauge data) and appears likely to produce sufficient runoff for monitoring, AMEC will mobilize to capture the storm event. AMEC will be responsible for determining if an attempted sampling event should be halted and considered a false start based on the actual rainfall and runoff conditions that develop during a storm event.

Monitoring of both the flow and water quality of storm water runoff requires considerable planning prior to actual rainfall occurring. Obtaining representative samples and complete storm data is possible only by using well-trained and alert field teams. The uncertainty of weather forecasts coupled with abrupt changes in the weather can greatly alter the expected workload. It is critical to plan and prepare for numerous aspects of the field work well in advance of a storm event. Each pre- and post-storm mobilization team will be made up of two field technicians. A staffing plan, which designates personnel and equipment required for each facet of storm monitoring, will be completed for each potential monitoring event.

Ideally, during the wet weather events two field technicians will be assigned to each composite monitoring station. One field team will be assigned to collect grab samples at the two grab sampling sites. The field coordinator will be available to answer questions and will periodically visit the monitoring sites during the event. A field technician will be designated to courier samples to the analytical laboratories following the successful capture of the monitoring event.

The staffing plan will include the personnel assigned for monitoring, their work shifts (e.g., start-up and relief), equipment mobilization, and communication channels.

Communication channels must be established for personnel to contact each other before and during the event. Cellular telephone communication links to field teams are essential for efficient storm water monitoring because the project manager and the field coordinator will need to track the location and workload of each field team and direct them to priority tasks. The project field notebook will include telephone lists with home, work, and cellular numbers of the AMEC field team, and work numbers of primary laboratory contacts and Ports personnel.

2.3.2.4 Mobilization Equipment

Equipment needed for storm water sampling includes sampling equipment, containers, personal rain gear, storm kits, field vehicles, mobile communication, and safety equipment. The necessary equipment should be loaded into the appropriate vehicles early in the storm preparation sequence. During the monitoring season, field crews will use the specific equipment and personal rain gear listed in Table 2-4.

Table 2-4.
Storm Monitoring Event Equipment List

Mobilization	Monitoring Event
Field notebook (including JHA and Tailgate Safety Meeting forms)	Flashlights (2)
	Maps
Paper towels	High-quality alkaline D-cell batteries
Spare chain-of-custody forms	Spare sample labels
Sample control paperwork	Pencils and indelible markers
Extra-fine indelible markers	Desiccant (packages and jar)
19L borosilicate glass bottles (grab and composite)	Diagonal clipper
Reagent-grade, analyte-free deionized water (3-gallon jug) from the laboratory	Electrical tape
	Cable ties (assorted sizes)
Cellular telephone	Utility knife
Personal rain gear	Ziploc bags (assorted sizes)
Digital or disposable camera	Nitrile gloves
Necessary safety gear (see Appendix A—Health and Safety Plan)	Keys
	Sampling pole for grab samples
Secondary sample intake for each composite site	Manhole lifter

2.3.2.5 Collection of Samples

Composite Samples
Prior to a storm event, stations must be prepared for monitoring, including:

- Verifying that the automated samplers and flow monitoring equipment have been calibrated and are operational
- Verifying that the system pumps are functioning as designed
- Clearing the flow sensors of debris
- Pre-icing the composite sample bottles
- Performing general equipment inspections to confirm that the sites are operational

The composite sample bottles will be iced after the decision has been made to monitor the storm. From the time that the first sample aliquot is delivered to the composite sample bottle, sufficient ice must be maintained around the bottle(s) to maintain a sample temperature of 4 °C or less.

AMEC will enable the automated samplers and collect flow-weighted composite samples at the selected composite sample sites. Composite sample aliquots will be collected by selecting a sample pacing (e.g., one sample for every 50,000 cubic feet (cf) of water that pass by a monitoring station). The sample pacing will be unique to each monitoring site and will be determined based on the best professional judgment of the anticipated total runoff volume at each monitoring site (e.g., the forecast rainfall amount and intensity, base flow, ground saturation, and historical data).

Grab Samples

Grab samples will be collected in a single aliquot at the two grab sample monitoring sites into 19L borosilicate glass bottles, as follows:

- A grab sample during two storm events will be collected at the Dominguez Channel/Consolidated Slip Freshwater Lens (FWL) during ebb tide, once it is considered likely (based on best professional judgment) that a freshwater lens of storm water runoff water is present. A conductivity meter will be used to determine the depth and presence of a fresh water lens. The grab sample will be collected in a fresh water lens with salinity less than 5 parts per thousand (ppt)[1]. If salinity remains above 5 ppt for the duration of the event, then no grab sample will be collected.
- A grab sample during one storm event will be collected at the Machado Lake Overflow site (ML). The primary sampling location will be where overflow from Machado Lake enters a box culvert, just before West Anaheim Street. However, this monitoring location is subject to alteration, based on field observation. The aim of this site is to attain a sample of overflow water from Machado Lake prior to its comingling with other runoff. If this alteration is not considered safe, then the primary monitoring location will remain viable and a sample will be collected regardless of comingling.

2.3.2.6 *In-Situ* Field Measurements

Additionally, *in-situ* field measurements will be collected during storm monitoring events at composite sample monitoring sites. *In-situ* field measurements are presented in Table 2-3.

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1 Salinity will likely be based on the conductivity measurement. This conversion is temperature-dependant. 5 ppt salinity = 6.4 milliSiemens per centimeter (mS/cm) @ 10 °C; 7.25 mS/cm @ 15 °C; 8.0 mS/cm @ 20 °C; and 8.9 mS/cm @ 25 °C.

2.4 Documentation, Sample Handling, and Custody

2.4.1 Documentation

Field Data Sheets

Field sample collection information will be recorded on field data sheets (Appendix B), which is maintained by the field coordinator or designee. Notes should be taken in indelible, waterproof blue or black ink. Errors will be corrected by crossing through with a single line (leaving the original text legible), then dating and initialing. The field data sheets will be scanned (digitized) at the end of each monitoring event.

At each monitoring station, the following general information should be entered on the field data sheet during each event to meet the requirements of the PQAPP:

- Project name
- AMEC Project number
- Alphanumeric site ID
- Site coordinates
- Date
- Time (24 hour)
- Monitoring program
- Field team members
- Field measurements
- Weather conditions
- Runoff characteristics
- Equipment conditions
- Composite or grab sample
- Grab sample depth
- Sample aliquots in each bottle
- Sample matrix
- Miscellaneous comments

Additional data will be collected and recorded on the field data sheet at the end of the monitoring event:

- Total Flow Volume—Total volume of water in cubic feet (cf) that passed the station during the storm at sites where flow meters are installed
- Composite Sample Aliquot Count—Total aliquots attempted, the number of aliquots missed, and the number of successful aliquots
- Total Sample Volume—Total volume (L) of samples collected during the storm

These data will also be logged by the flow meter; however, if downloaded data are lost, the data recorded on the field log will be a backup.

Daily Logbook

Additionally, the field coordinator or designee will keep a daily record of significant events, observations, and measurements in a logbook during monitoring events. Entries for each day should begin on a new page, and each entry should include the date and time, and the initials of the recorder. The daily log should contain, but not be limited to, the following information:

- Project name
- Field personnel on site
- Site visitors
- Weather conditions
- Field observations
- Maps and/or drawings
- Date and time sample was collected
- Sampling method and description of activities
- Identification or serial numbers of instruments or equipment used
- Deviations from the PQAPP or SAP
- Consultations with project management regarding field sampling activities

2.4.2 Sample Identification and Labeling

Field personnel will identify and label samples in a consistent manner so that field samples are traceable and the labels provide the information necessary for the laboratory to conduct the requested analyses.

Sample ID Numbers

Each water sample collected will receive a sample identification (ID) number for tracking that is a unique alphanumeric code. This code will be standardized for water quality samples and will be in the following format:

[Site ID]–[Sample Type]–[Sample Method]–[Event Number]–[Date (YYYYMMDD)]

The sample ID numbers for water quality samples are listed below. An example ID number is shown in Table 2-5.

- Site ID:
  - LAR = Los Angeles River
  - DC = Dominguez Channel
  - TL = Torrance Lateral
  - PLU = Pier A
  - FWL = Freshwater Lens
  - ML = Machado Lake

- Sample Type:
  - STW = Surface water (storm or dry)
  - FD = Duplicate sample
  - FB = Field blank
- Sampling Method:
  - C = Composite sample
  - G = Grab sample
- Event Number:
  - W1 = Wet Weather Event 1
  - W2 = Wet Weather Event 2
  - D1 = Dry Weather Event 1

Table 2-5.
Example of Sample Identification Number

Sample ID	Description				
	Site ID	Sample Type	Sampling Method	Event Number	Date
LAR-STW-C-W1-20140115	Los Angeles River	Surface Water	Composite	Wet Weather Event 1	January 15, 2014

Sample Labels
Water quality sample bottles will be pre-labeled, to the extent possible, before each monitoring event. Pre-labeling bottles simplifies field activities and leaves only date, time, sample ID, and sampling personnel names to be filled out in the field. Each sample collected will be labeled with the following information:

- Project name
- Monitoring program
- Event number
- Date and time(24 hour time)
- Site ID number
- Bottle __ of __ (for multi-bottle samples)
- Collected by
- Analysis type
- Preservation (if applicable)

Chain-of-Custody Forms

Chain-of-custody (COC) forms will be pre-printed along with the bottle labels. These forms will contain at a minimum the same data as the sample labels do. The COC forms will be completed in the field with dates, times, and sample team names, and will be cross-checked with the bottle labels. For composite samples, the start of the holding time will be considered to be the time that the last sample aliquot was collected.

2.4.3 Selected Laboratories

Based on the analytes selected for analysis and target reporting limits, three analytical laboratories have been selected to meet the requirements of this project:

Vista Analytical Laboratories, Inc. (Vista)
1104 Windfield Way, El Dorado Hills, California 95762
Office: (916) 673-1520; Fax: (916) 673-0106

Physis Environmental Laboratories, Inc. (Physis)
1904 East Wright Circle, Anaheim, California 92806
Office: (714) 602-5320; Fax: (714) 602-5321

Calscience Environmental Laboratory, Inc. (Calscience)
7440 Lincoln Way, Garden Grove, California 92847
Office: (714) 895-5494; Fax: (714) 894-7501

2.4.4 Sample Transport and Custody

Transport of the samples will be coordinated with the laboratories by the field coordinator. AMEC will courier the samples to Vista. Driving the samples to the laboratory will reduce the likelihood of contamination, bottle breakage, and sample temperatures exceedances. Additionally, holding times will be able to be more closely monitored. AMEC couriers will stop every two hours and check the status of the samples and replace ice as needed to maintain appropriate sample temperature.

COC procedures will be followed for each sample throughout the collection, handling, and analysis process. The principal document used to track possession and transfer of samples is the COC form. For each sample, data will be recorded on a COC form the day it is collected. Data entries will be made manually, in indelible ink. Corrections will be made by drawing a single line through the error (leaving the original information legible), writing in the correct information, then dating and initialing the change. Blank lines and spaces on the COC form will be lined out, dated, and initialed by the individual maintaining custody. If used, electronic COC (eCOC) forms generated from a custom field application will be emailed directly to the laboratory and QA officer.

A sample will be considered to be in one's custody if they are:

- In the custodian's possession or view,
- In a secured location (under lock) with restricted access, or
- In a container that is secured with an official seal so that the sample is unlikely to be accessed without breaking the seal.

Each person in custody of samples will sign the COC form validating that the samples were not left unattended without being properly secured. Copies of all COC forms will be retained in the project files.

Specific sample-handling procedures are as follows:

- Coolant ice will be sealed in separate double plastic bags and placed in the shipping containers for subsamples.
- Individual sample containers (post-compositing and subsampling) will be placed in a sealable plastic bag, packed to prevent breakage, and transported in a sealed ice chest or other suitable container.
- Glass jars will be separated in the shipping container by shock-absorbent material (e.g., bubble wrap) to prevent breakage.
- Samples will be couriered to Vista immediately following completion of a monitoring event. For weekend, deliveries, the project manager will coordinate with Vista to allow sample drop off, compositing, subsampling, and analysis in order to meet the holding time(s).
- Upon transfer of sample possession to the analytical laboratory, each person responsible for custody of the sample container will sign the COC form. Upon receipt of samples at the laboratory, the receiver will record the condition of the samples on a sample receipt form. COC forms will be used internally in the laboratory to track sample handling and final disposition.

Following sample compositing and subsampling, as detailed below, the AMEC courier will collect the dirty 19-L bottles and subsamples and drive them to the appropriate laboratories for analysis and bottle cleaning, as applicable.

2.4.5 Sample Compositing and Sub Sampling

Vista will perform sample compositing as necessary, subsampling, sample filtering, and preservation. Table 2-6 presents the selected analytical parameters, volumes, containers, holding times, and preservation methods. Vista will maintain documentation certifying the cleanliness of bottles and the purity of preservatives provided for subsample bottles.

Table 2-6.
Sample Volumes, Containers, Holding Times, and Preservatives

Parameter	Sample Size	Container Size and Type	Holding Time	Preservative
PCB Congeners	5 L	10-L glass	1 year	≤4 °C
DDT (Organochlorine Pesticides)	5 L	10-L glass	14 days to extraction	≤4 °C, pH 5–9
			40 days after extraction	
Total Metals	1 L	1-L Plastic	48 hours until preservation	≤4 °C
			6 months to analysis	HNO_3 <pH 2
Dissolved Metals	1 L	1-L Plastic	48 hours until laboratory filtration and preservation	≤4 °C
			6 months to analysis	HNO_3 <pH 2
Total Suspended Solids	1 L	1-L high-density polyethylene (HDPE)	7 days	≤4 °C
Particle Size	1 L	1-L HDPE	7 days	≤4 °C
Particulate Organic Carbon	5 L	10-L glass	48 hours to filtration	≤4 °C
			28 days to analysis	
Turbidity (at grab sites only)	1 L	1-L Plastic	As soon as possible	≤4 °C

2.5 Analytical Methods and Target Reporting Limits

The laboratory analytical methods and target reporting limits are presented in Appendix C. Laboratory reporting limits are revised periodically due to improved technology and/or methods, and may change over the duration of this project. Analytical methods and target detection limits were selected to comply with guidance from the Surface Water Ambient Monitoring Program (SWAMP) (SWRCB, 2008).

- For some analyte groups, several methodologies have been included to allow flexibility of method selection based on the data quality objectives (DQOs).
- For high-resolution isotope dilution methods, the estimated detection limit (EDL) sample concentration or the estimated maximum possible concentration should be calculated and reported for each target compound.
- For other methods, the laboratory should report detected compounds to the MDL, if applicable.
- The laboratory should also provide the instrument-verified limit of detection (LOD) for each analyte in the laboratory report and in the electronic data deliverable (EDD), whenever possible. Reported values between the MDL and RL should be qualified with a "J".
- Non-detects should be reported at the lowest calibration level (typically, the MDL) or the LOD, whichever is lower.

3.0 FIELD QUALITY ASSURANCE AND QUALITY CONTROL

This section presents QA/QC activities related to field sampling activities. Please refer to the PQAPP for analytical laboratory QA/QC measures. These are summarized in Table 10 and Table 11 of the PQAPP. The entire PQAPP should be reviewed as the requirements of the PQAPP are intricate to this SAP.

3.1 Field Data Quality Objectives

Data collected should be of acceptable quality so that project objectives are achievable. Guidance for DQOs is derived from the SWAMP guidance (SWRCB, 2008). The definitions of the data quality indicators are as follows:

- **Precision** is the ability of an instrument to reproduce its own measurement; it is a measure of the variability (random error) in sampling, sample handling, and analysis.
- **Accuracy** measures the closeness of an individual measurement (or an average of multiple measurements) to the true or expected value.
- **Representativeness** expresses the degree to which data accurately and precisely represent an environmental condition.
- **Comparability** expresses the confidence with which one dataset can be evaluated in relation to another dataset; for this project, comparability of data will be established by using standard analytical methodologies and reporting formats and by using common traceable calibration and reference materials.
- **Completeness** measures the amount of data that is determined to be valid in proportion to the amount of data collected.
- **Sensitivity** is related to the instrument calibration low-level standard.

3.1.1 *In-situ* Field Measurements

The quality of *in-situ* field data will be assessed by accuracy and completeness. Applicable quantitative goals for field data are presented in Table 3-1.

Table 3-1.
***In-Situ* Field Measurement Data Quality Objectives**

Parameter	Range	Accuracy	Resolution	Completeness
Electrical Conductivity	0 to 100 mS/cm	± 0.5% of reading + 0.001 mS/cm	0.001 to 0.1 mS/cm (range-dependant)	90%
pH	0 to 14 units	±0.2 units	0.01 unit	90%
Temperature	-5 to +50 ˚C	±0.15 ˚C	0.01 ˚C	90%
Dissolved Oxygen	0 to 50 mg/L	0 to 20 mg/L ±0.01 mg/L or 1% of reading, whichever is greater; 20 to 50 mg/L ±15% of reading.	0.01 mg/L	90%
Turbidity	0 to 1,000 NTU	±2% of reading or 0.3 NTU, whichever is greater	0.1 NTU	90%

Notes:
˚C - degrees Celsius
mg/L - milligrams per liter
mS/cm - milliSiemens per centimeter
NTU - nephelometric turbidity units

3.1.2 Composite Sample Representativeness

A flow-weighted composite sample consists of a mixture of constant-volume aliquots collected at variable time intervals during a storm event. For example, at higher flow rates (i.e., larger cumulative volumes), the aliquot times are more closely spaced. The resulting composite represents the average concentration throughout the storm hydrograph.

The representativeness of any composite sample depends on many factors. Best professional judgment will be used by AMEC to determine whether samples with questionable representativeness will be analyzed. Ideally, the following criteria will be achieved, but these are not considered requirements.

- A minimum of 20 sample aliquots during the monitoring event
- Collection of sample aliquots from the onset of rainfall until flow returns to within 10% of base flow or sampling has been undertaken for 24 hours
- Sample aliquots that represent at least 75% of the monitoring event total flows or a 24-hour time period
- Sufficient sample pacing so that the stream flow does not lead to the automated sampler becoming outpaced (i.e., unable to keep up with required sample collection)

These criteria during each monitoring event will be summarized in the project report.

3.2 Field Quality Control

This section addresses QA/QC activities associated with field sampling. The field QA/QC samples are used to evaluate potential contamination and sampling errors applicable to automated composite sampling and grab sampling introduced before the samples are submitted to the analytical laboratory.

Additional sample volume will be targeted for collection to provide the laboratory with sufficient sample volume to run the program-required analytical QA/QC samples for analysis.

3.2.1 Field Audits

The field coordinator may conduct spot verifications that field activities are being conducted in accordance with this SAP, and has the authority to issue a stop work order on sample collection. Identified non-conformances will be discussed in the project report.

3.2.2 Equipment Calibration

Proper calibration of equipment and instrumentation is an integral part of providing quality data. Field equipment will be calibrated prior to the sampling event according to the manufacturers' recommendations, using manufacturers' standards. A calibration check will be performed following calibration. The equipment, calibration, and maintenance information will be documented in the instrument calibration log. Equipment will be calibrated prior to each monitoring event. Equipment that fails calibration will be recalibrated prior to use. The following procedures will be followed.

- The American Sigma 950 AVB flow meter will be calibrated using the procedures described in its operation and maintenance (O&M) manual (Hach catalog number 3314). For flow meter calibration, the recorded water level will be checked by operating the flow meter while the pressure transducer is submersed in water of a known level. Level adjustments will be made to the flow meter. Results that deviate significantly from the known level and do not maintain an adjusted offset will be documented and will require the equipment to be replaced or repaired. Velocity is calibrated at the factory only; therefore, if a velocity sensor appears to be reporting erroneous velocity measurements based on best professional judgment, it will be replaced.
- The Hach SD900 automated sampler will be calibrated using the procedures described in its O&M manual (Hach catalog number DOC026.53.00742). For automated sampler calibration, the aliquot volume will be calibrated using a graduated flask or beaker.
- The Oakton Con10 series pH-conductivity-temperature handheld meter will be calibrated during storm event mobilization or as needed, according to manufacturers' recommendations.
- The YSI 6600 series water quality sonde will be calibrated during storm event mobilization or as needed, according to manufacturers' recommendations.

Table 3-2 specifies the equipment that must be calibrated.

Table 3-2.
Calibration of Field Sampling Equipment and Monitoring Instruments

Equipment	Calibration Description	Responsible Person	Frequency	Standard Operating Procedure Reference
American Sigma 950 AVB Flow Meter (level only)	Water level check against known levels	AMEC Technical Staff	Prior to each monitoring event	American Sigma 950 AVB O&M manual, 3314
Hach SD900 Automated Sampler	Aliquot calibration	AMEC Technical Staff	Prior to each monitoring event	Hach SD900 sampler O&M manual, DOC026.53.00742
Oakton Con10 Series Water Quality Meter	Calibration using standard solutions	AMEC Technical Staff	Prior to each monitoring event	Manufacturer O&M manual
YSI 6600 Series Water Quality Sonde	Calibration using standard solutions	AMEC Technical Staff	Prior to each monitoring event	Manufacturer O&M manual

3.2.3 Equipment Blanks

Physis will clean the 19-L sample bottles, Teflon-lined tubing, silicone pump tubing, silicone bottle stoppers, and stainless steel sample intake strainers. Physis will create the following blank samples for analysis:

- One blank sample representative of the cleaned silicone and Teflon-lined tubing. Blank water will be passed through at least 10% of cleaned tubing and be representative of both silicone and Teflon-lined tubing.
- One blank during each of the three anticipated bottle and stopper cleanings representing the bottles and stoppers. Blank water will be passed into/over at least 10% of cleaned bottles and stoppers.

Physis (total metals) and Vista (PCBs and DDTs) will analyze the equipment blanks. Equipment blanks will not be analyzed by Calscience (TSS, turbidity, particle size, and POC). The analytical laboratories will analyze blank water from the cleaned sampling equipment at the same detection level proposed for sample analysis; this will verify that the sampling equipment in contact with sample water is clean and is not a likely source of contamination.

If a blank sample produces an analyte detection above the RL, the equipment will be cleaned and blanked again. In the event of a second blank failure, AMEC will consult with the Ports to determine a solution. If a blank sample produces an analyte detection above the MDL, AMEC will consult the Ports to determine if this equipment is acceptable for use or if it should be re-cleaned and re-blanked. Cleaned and blanked sampling equipment will not be deployed for sampling until an acceptable blank analysis has occurred unless directed by the Ports.

3.2.4 Temporal Contamination Measures

To prevent temporal cross-contamination between monitoring events, AMEC will replace the sample intake strainer, Teflon intake tubing, and peristaltic pump tubing with new blanked tubing prior to each monitoring event. Blanked sample bottles will be loaded into the monitoring stations.

3.2.5 Field Duplicates

Per the requirements of the PQAPP, a field duplicate sample will be collected during one monitoring event, from a grab sample location. A field duplicate of *in-situ* parameters will not be performed because a water quality sonde will be used and will record data at predetermined intervals during the course of monitoring events.

3.2.6 Field Blanks

Per the requirements of the PQAPP, a field blank sample will be prepared during one monitoring event by pouring laboratory-grade distilled, deionized water into blanked 19-L bottles at one of the monitoring sites.

3.3 Field Corrective Action

The field coordinator will be responsible for correcting equipment malfunctions during field sampling. In the case of field instruments, problems will be addressed through cleaning the instrument, repairing it, or replacing parts or the entire instrument, as warranted. Field crews will carry basic spare parts and consumable supplies with them, and will have access to spare parts (to be stored at the AMEC office).

The QA manager will resolve situations identified by the field coordinator that may result in noncompliance with this SAP. Corrective measures will be documented in the field logbook.

3.4 Instrument and Equipment Testing, Inspection, and Maintenance

A maintenance program will be performed for monitoring equipment before each monitoring event. Maintenance will include checking the performance of the equipment, checking power supplies and replacing batteries as required, inspecting and clearing intake structures, checking the status of the instrumentation desiccant, and repairing equipment to keep the monitoring equipment operational.

The general functionality of the surrounding site will be inspected. It should be verified that no debris is in the water sampling areas, and the areas should be inspected for trash to prevent clogging of equipment.

3.5 Inspection and Acceptance of Supplies and Consumables

Glassware, sample bottles, and collection equipment will be inspected prior to use. The field coordinator will be in charge of ordering sampling supplies. Ordered supplies will be examined for damage as they are received, per Table 3-3.

The field coordinator will order field supplies prior to the start of the monitoring program and as needed through the monitoring year. Field supplies will be stored at AMEC.

Table 3-3.
Inspection, Testing, and Acceptance Requirements for Consumable Supplies

Project-Related Supplies and Consumables	Inspection and Testing Specifications or Source	Acceptance Criterion	Frequency	Responsible Entity
Composite Sample Bottles	Laboratory-cleaned and blanked	Pass blanking analysis	Clean blanked bottles each monitoring event	Physis
Silicone Tubing	Laboratory-cleaned and blanked	Pass blanking analysis	New blanked tubing each event	Physis
Teflon Tubing	Laboratory-cleaned and blanked	Pass blanking analysis	New blanked tubing each event	Physis
Gloves	New box	New box	As needed	AMEC

3.6 Non-Direct Measurements

Non-direct measurements are not anticipated to be performed by AMEC during this project. However, rainfall for the monitoring season and flow estimate data from third-party sources are anticipated to be used (along with data collected during the performance of this project and used in tandem with data produced during the performance of this project) to refine the model that is used to estimate loads of target analytes of concern into the Ports' jurisdictions.

3.7 Data Management

AMEC will enter the collected field data into the PQAPP EDD format, as Microsoft Excel or Access files. Completed field data EDDs will be submitted as part of post-sampling tech memoranda (PSTMs) to the Ports.

Hydrologic and field data management will be led by the project manager.

The laboratory coordinator will be responsible for tracking the analytical process to ensure that laboratories are meeting the required turnaround times. The analytical laboratories will provide analytical laboratory results directly to Anchor QEA. AMEC will not provide QA/QC of analytical laboratory data. Following approval of analytical laboratory results by Anchor QEA, AMEC will be responsible for incorporating analytical laboratory data in the project report.

4.0 DATA VALIDATION AND ASSESSMENT

Laboratories will be directed to provide a three-week turnaround on the deliverable package per sampling event. The deliverable package will include a hard copy and electronic data files. The hard copy will include standard narratives identifying analytical inconsistencies, QA/QC exceedances, and corrective actions. The analytical laboratory data will be provided directly to Anchor QEA from the analytical laboratories. EDDs will be submitted by the laboratory in automated data review (ADR) format. ADR software is a tool used to streamline data validation by automatically evaluating laboratory QC samples to the performance criteria established in the PQAPP. Specifications and valid values are in Appendix A of the PQAPP. An ADR electronic QAPP will be developed by Anchor QEA and distributed to the laboratory as required prior to project implementation. The specifications, valid values, and the ADR electronic QAPP will be updated as needed and will be distributed to the laboratories when they become available.

AMEC will produce a field data deliverable that includes *in-situ* measurements, monitoring event flow data, field data sheets, and COCs directly to Anchor QEA within three weeks of a successful monitoring event.

4.1 Data Review, Verification, and Validation

Anchor QEA will verify and validate analytical laboratory data and field data, under a separate contract with the Ports.

Anchor QEA is responsible for notifying AMEC about any potential discrepancies noted in the analytical laboratory data; AMEC will then communicate with the analytical laboratory about the discrepancies.

Anchor QEA is also responsible for notifying AMEC about any potential discrepancies noted in the field data; AMEC will then work with Anchor QEA to resolve any noted field data discrepancies.

4.2 Verification and Validation Methods

Anchor QEA will follow approved methods presented in the PQAPP to verify and validate analytical laboratory and field data. Upon completion of verifying and validating laboratory and field data, Anchor QEA will deliver the validated data to AMEC.

4.3 Data Assessments

4.3.1 Post-Sampling Technical Memorandums

Upon receipt of the analytical laboratory data, AMEC will produce a PSTM for each wet or dry weather monitoring event that summarizes the event. No data analysis will be included in the PSTMs. The PSTMs will contain final (peer-reviewed) versions of field data sheets, field logbooks, COCs, and observations. PSTMs will be submitted as final versions; draft PSTMs will not be produced.

4.3.2 Draft Report

AMEC will prepare a draft report and submit it to the Ports for review. The report will summarize the sample collection methods and events; present the analytical results; and list any deviations from the protocols in this SAP, as well as their likely implications. No data analysis will be conducted. Raw data (analytical, field, and flow) will be provided as an appendix on a CD. AMEC will produce up to four hard copies and up to five copies on CD of the draft report, and will also make the draft report available on a file transfer protocol (FTP) site for up to 14 days.

4.3.3 Final Report

Following review of the draft report by the Ports, AMEC will respond to the Ports' comments and produce a final report. AMEC will produce up to four hard copies and up to five copies on CD of the final report, and will also make the final report available on an FTP site for up to 14 days.

Project reports are detailed below and presented in Table 4-1.

Table 4-1.
Schedule of Deliverable Reports

Deliverable	Deadline
PSTM(s)	Within 14 days of receiving reviewed analytical data from Anchor QEA[a]
Draft Report	Within 30 days of submitting the third[b] PSTM to the Ports
Final Report	Within 14 days of receiving comments on the Draft Report from the Ports (assumed to be on or prior to June 30, 2014)

Notes:
a. Assumes that the full suite of analyzed parameters has been received and that identified verification and validation discrepancies have been resolved.
b. Assumes two wet weather and one dry weather monitoring event.

5.0 REFERENCES

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Stewart et al, 2009. High-Volume Surface Water Monitoring for Characterization of Low PCB Levels. http://www.wmsym.org/archives/2009/pdfs/9131.pdf accessed on December 26, 2013.

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USEPA, 2007a. Method 1699: Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS.

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APPENDIX A

HEALTH AND SAFETY PLAN

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FINAL
HEALTH AND SAFETY PLAN
SPECIAL STUDY RELATED TO THE
HARBOR TOXICS TOTAL MAXIMUM DAILY LOAD
POLLUTANT LOADING MODEL–WET AND DRY WEATHER WATERSHED LOADING STUDY

Prepared for:

925 Harbor Plaza	**425 South Palos Verdes Street**
Long Beach, California 90802	**San Pedro, California 90733**
Contract No. HD-8101	**Agreement No. 13-3141**
Job Task No. 1311	**Project Directive No. 13**
	ADP No. 970203-532 W
AMEC Project No. 1315100111	**AMEC Project No. 1315102713**

Prepared by:
AMEC Environment & Infrastructure, Inc.
San Diego, California

January 2014

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ACRONYMS AND ABBREVIATIONS

AHA	Activity Hazard Assessment
AMEC	AMEC Environment & Infrastructure, Inc.
HASP	Health and Safety Plan
HSO	Health and Safety Officer
IDHL	Immediately Dangerous to Life and Health
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PPE	Personal protective equipment
Special Study	Harbor Toxics Total Maximum Daily Load Pollutant Loading Model – Wet and Dry Weather Watershed Loading Study
STEL	Short Term Exposure Limit
TWA	Time Weighted Average

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1.0 SIGNATURE SHEET

Reviewed and Approved:

	XX January 2014
Tyler Huff Health and Safety Officer Telephone: (858) 300-4322	Date
	XX January 2014
Barry Snyder Project Manager Telephone: (858) 300-4320	Date
	XX January 2014
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2.0 INTRODUCTION

This Health and Safety Plan (HASP) addresses the health and safety concerns that relate to the fieldwork associated with the Special Study Related to the Harbor Toxics Total Maximum Daily Load Pollutant Loading Model – Wet and Dry Weather Watershed Loading Study (Special Study). Field team members and the subcontractor's field teams must be familiar with the contents of this document and site-specific safety concerns.

The project Health and Safety Officer (HSO) will be responsible for assuring that all members of the field team are familiar with the requirements of the HASP and have received appropriate training for their specific roles. The Field Sampling Manager will be responsible for enforcing site-specific health and safety protocols, including emergency response/contingency plans. The Project Manager and individual employees have the authority to suspend work, if necessary, due to health and safety concerns.

2.1 Field Activities

AMEC Environment & Infrastructure, Inc. (AMEC) is responsible for field activities associated with the Special Study. The following sub-sections discuss these field activities.

2.1.1 Site Selection of Monitoring Sites

Site selection for this project will include physical exertion (walking) in extreme weather conditions (heat) for moderate periods over uneven surfaces. This will also include moderate lifting (manhole covers).

2.1.2 Travel

Travel to and from the selected monitoring sites will occur for equipment installation, maintenance activities, and monitoring events. Although automated equipment lessens required travel during storm events, some access is typically necessary during storm events and often at night to: document observations, collect samples, take field measurements, replace composite sample containers, and repair any malfunctioning or impacted equipment. Field crew should remain fully aware of surrounding traffic dangers, including adverse weather conditions, increased traffic volume, and erratic driving behaviour from other drivers.

2.2 Traffic Safety

Working near roadways presents inherent risks, dominated by the possibility of errant vehicles. The motoring public is largely made up of conscientious drivers operating well-maintained equipment. However, some percentage of drivers on the road may be negatively affected by driving factors such as distractions, weather conditions, fatigue, confusion, or inadequate training, as well as mechanical factors like vehicle age and condition. Any or all of these factors may contribute to a vehicle leaving the traveled lanes and entering the work site.

Traffic load, posted speed limits, and proximity to travel lanes all have a direct relation to the probability of worker exposure to errant vehicles. Work site selection can reduce the exposure potential relating to these factors. In all cases, the Field Sampling Manager will make the final evaluation of the appropriateness of performing work with the conditions present at a site.

Field teams will use signs, cones, and flashing amber lights when necessary, based on requirements of traffic control permits for sites within the roadway, to inform motorists of activities that may impact roadway travel conditions. To avoid shoulder and lane closures, field crew will attempt to pull vehicles off the road and perform work as far away from the edge of pavement as possible.

Field members will work in teams and utilize high-visibility, reflective (Class 2 ANSI/ISEA minimum) vests or clothing. Steel-toed boots and hard hats are required for the entrant during confined space entry, if overhead hazards exist, and/or if operating heavy equipment when working along roadsides.

When working on or near the shoulder, physical barriers will be employed whenever possible to protect workers from errant vehicles. Physical barriers include barrier vehicles, guardrails, fences, and other man-made or natural objects capable of slowing, stopping, or diverting an errant vehicle. Barrier vehicles are to be unoccupied, positioned upstream of the work zone, and parked so as not to roll into the work area or active travel lanes if struck by an errant vehicle. Workers not protected by a physical barrier should employ the use of a lookout whose sole responsibility is to watch traffic for signs of potential trouble and notify endangered workers to make use of a pre-planned escape route. The lookout must have an effective means of communicating with workers given the noise and visual condition present. Workers will conduct their work facing the traffic whenever feasible.

2.3 Confined Space Entry

There are no known instances where a permitted confined space entry will be necessary during the course of site selection or monitoring. However, non-permitted confined space entry may occur for installation of automated equipment. If an instance does arise that requires a non-permitted confined space entry the Project Manager, the Site Health and Safety Officer, and the Health and Safety Director must be notified and proper procedures will be followed.

The Occupational Safety and Health Administration (OSHA) requires that all individuals entering a permitted or non-permitted confined space be trained in confined space entry, instructed in the nature of the hazards involved, the necessary precautions to be taken, and the use of protective and emergency equipment required for the job. AMEC employees will be trained in confined space entry procedures prior to entry.

2.4 General Safety

In addition to traffic hazards, field teams may face a variety of potential dangers while maintaining the facilities, installing equipment, and performing monitoring activities. Some of these dangers include:

- Slippery and/or wet conditions
- Lightning
- Unstable earth
- Poor visibility, especially at night
- Fast moving water
- Deep bodies of water
- Flooding
- Walking on uneven surfaces
- Dehydration
- Prolonged weather exposure
- Power tools and heavy equipment
- Lifting heavy objects
- Overhead dangers
- Elevated surfaces
- Electrical hazards posed by field equipment malfunctions
- Light to moderate carrying of field equipment and supplies
- Transients, Muggers, and criminals
- Sharp edges and broken glass
- Animals and other biological hazards

Field crews are trained to take the following safety while working in the field:

- Stay away from the edges of fast moving water and avoid areas of pooled water by roadways. These areas are usually slippery during rainy conditions.
- If sampling is required within deep bodies of water, use a lifeline and a personal flotation device. Always have one crewmember serve as a lookout.
- Watch your step while walking in and around rocks along any water's edge. Wet rocks are usually sharp and slippery during rainy conditions and during high tide.

- If wading is required, check water conditions prior to entry. Enter water only if determined by field crew leader that it is safe to do so. Be aware of water conditions, including strong currents in the area, swell/wake activity, and tsunami warnings and watches.
- Watch for animals, such as seals, sea lions, and sharks. Do not enter the ocean if animals are present that may pose a safety threat.
- Never work alone at night or during the day. Two people are required during each site visit. Stay within shouting distance of your partner at all times.
- Avoid leaving materials, tools, and equipment lying around where someone can trip over them.
- Maximize lighting at all times, especially at night.
- Always keep a charged cellular phone or other means of communication nearby.
- Do not use your back to lift heavy objects. Get help.
- Never use drugs or alcohol while working.
- Always wear an orange reflective vest during site visits, where necessary, and a hard hat when overhead dangers exist.
- Always wear appropriate footwear, including steel-toed boots and/or rain boots.
- Do not use power tools and equipment unless trained in the proper use and care of the specific tools.
- Always wear eye protection when working with tools or chemicals.
- Wear nitrile gloves when collecting samples.
- Wear waterproof gear.
- Take appropriate measures for protection from the elements including but not limited to sun, rain and wind.
- Seek shelter if lightning is observed; do not sample, or stand in open areas, or near or under cliffs.
- Be aware of your surroundings. Watch for plants, animals, people, tripping hazards, and overhead dangers such as falling debris from cliffs.
- Clean up the work area before leaving.
- Always carry sufficient amounts of drinking water with you.
- Be aware of the nearest toilet and hand washing facilities.

Field crew will complete the following personal hygiene procedures:

- Toilet and hand washing facilities will not be located on site. An alternate sanitary facility and its specific location will be identified prior to beginning work activities.
- Where employees are engaging in the application of operations involving substances which may be harmful to the employees, cleansing facilities shall be provided in proximity of the worksite and shall be so equipped as to enable employees to remove such substances. Proximate cleansing facilities will be identified prior to initiating work at the site. Depending upon the problem, these facilities may be in the form of ordinary soap and water or in the form of special compounds designed specifically for removal of the harmful material from skin surfaces.
- Personal protective equipment (PPE) shall be kept clean, in good repair, and on-site. Safety devices, including protective clothing worn by the employee, shall not be interchanged among the employees until properly cleaned.
- All equipment leaving the site will be free of gross hazardous and non-hazardous waste (i.e., mud and/or soil).

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3.0 SITE-SPECIFIC HASP

This section provides information on unique hazards and necessary precautions for the types of sites included in this program. Appropriate emergency response numbers and routes to the nearest medical emergency facilities can be found in Section 2.13. Field personnel will be responsible for adhering to the requirements of this plan and task-specific Activity Hazard Assessments (AHAs) for installation, maintenance, and monitoring events. If additional measures are necessary due to unforeseen or temporary changes to the work environment, the on-site team leader will make the final judgment for any safety procedure changes.

3.1 Errant Vehicles

There is a limited to moderate exposure hazard from errant vehicles while accessing most sites. Personnel should keep well back from the roadway lanes and face the approaching traffic while stopped on the shoulder of the roadway. Field crews should always remain on the side of the vehicle furthest from the travel lane and employ the use of flashing amber lights. A lookout person is required if two or more field crew are engaged in exposed activity within 30 feet of the travel lane. Exposed activities may occur before, during, and after storm events.

3.2 Chemical Hazards

An exposure to chemical hazards may be possible, as chemicals can collect within pipes and along conveyance channels. Chemicals can be corrosive and can burn exposed flesh, and/or they can cause severe illness if they are absorbed through the skin or ingested. Exercise caution when encountering a suspected liquid hazard. Use a pH meter or pH test paper to test for corrosives, but always assume that a hazardous chemical is present and wear personal protective clothing. Chemical hazards other than those discussed below could be hazardous chemicals that have precipitated or accumulated on the sides of the pipes and channels. Table 2.1 lists potential chemicals in gaseous form that may be on site along with each chemical's Permissible Exposure Limit (PEL), Immediately Dangerous to Life and Health (IDHL), odor thresholds, and routes of entry. Personnel will use proper PPE to guard against chemical hazards.

Table 2-1.
Toxic Gases

Name	Source/Use	IDLH Ceiling PPM	STEL PPM/Exposure Time	TWA 8 Hr PEL PPM	Odor Threshold
Acetone	Solvent	2,500	1,000/15	750	100
Carbon Dioxide	Comb./Sludge	40,000	30,000/15	5,000	---
Carbon Monoxide	Comb./Exhaust	1,200	---	25	---
Chlorine	---	10	1/15	0.5	---
Gasoline	Fuel	---	500/15	300	0.005–10
Hydrogen Sulfide	Sewer/Sludge Coal Gas/Petrol	100	15/15	10	Impairs smell
Nitrogen Oxides	---	20	1/15	---	---
Ozone	Electric Arcing	5	0.3/15	0.1	0.015

Notes:
IDLH - Immediately Dangerous to Life and Health
STEL - Short Term Exposure Limit
TWA - Time Weighted Average
PEL - Permissible Exposure Limit

3.3 Physical Hazards

Always be alert and use adequate protection to safeguard against the physical hazards associated with working at monitoring sites. The most common hazard encountered is falling or tripping, potentially causing mechanical injury. The following are some other common hazards:

- Falling objects
- Sharp objects
- "Flash" flooding
- High water
- Debris flows within stream channels
- Strong waves and currents
- Electrical shock
- Grinding
- Drilling
- Chipping
- Moving vehicles
- Uneven walking surfaces

3.4 Biological Hazards

Beware of poison ivy, poison oak, and other plants that cause allergic reactions. Also, use protection against bacteria and other micro biota that could be present in the water and sediment. Be aware that mosquitoes are a common vector for human diseases. Use caution when unlocking or opening equipment that has been stored on site as black widows or other venomous or stinging insects may be present.

Beware of aquatic animals that may cause harm, such as seals, sea lions, jellyfish, and sharks. Animals may appear at any time. Avoid startling animals when in water. Make noise while walking to the site to alert animals to your presence. Always have a lookout for animals.

3.5 Drowning Hazards

Working in or near bodies of water may expose field crews to potential drowning hazards. The chance of drowning can occur along the water's edge or in the water. However, drowning hazards are more common when wading or standing in the bodies of water. Strong currents are common near storm water outfalls and large structures, such as piers and bridges, particularly during rainstorms. Do not enter the water if the field team leader determines the conditions to be unsafe, and always keep away from the edge of fast moving water. Field crews should be equipped with personal floatation devices, lifelines, and all necessary PPE. Fast moving water, and while uncommon, rogue waves and tsunamis, can sweep people off their feet and create dangerous situations.

3.6 Heat Stress

Heat stress is a major hazard, especially for workers wearing protective equipment. The same protective materials that shield the body from chemical exposure also limit the dissipation of body heat and moisture. In its early stages, heat stress can cause rashes, cramps, discomfort, and drowsiness, resulting in impaired functional ability that threatens the safety of both the individual and coworkers. Continued heat stress can lead to heat stroke and death. Avoiding overprotection, careful training, and frequent monitoring of personnel who wear protective clothing, judicious scheduling of work and rest periods, and frequent replacement of fluids can protect against this hazard.

Heat stress is a possibility on this project during equipment installation, and dry weather monitoring. Breaks in a shaded area will be taken if any worker exhibits or believes necessary to mitigate the symptoms of heat stress such as: excessive sweating, muscle spasms, thirst, dizziness, rapid/weak pulse, flushed skin, loss of consciousness, or convulsions. The breaks will last until symptoms are relieved and/or the pulse of the worker is less than 110 beats per minute. As a preventive measure, workers will be instructed to drink fluids to keep hydrated. For severe heat stress, workers will be examined by a health-care professional as soon as possible.

Additionally, during periods of hot weather or other potential heat stress conditions the following safe work practices must apply:

- Be on the alert to signs and symptoms of heat illness during periods of abnormally high heat.

- Know the symptoms of heat illness to watch for which includes excessive sweating, headache, poor concentration, muscle pain, headache, cramping, dizziness, and irritability, loss of coordination, vomiting, blurry vision, confusion, and lack of sweating, fainting, or seizures.
- Drink plenty of water throughout the day. Employees working in the heat need to drink 4 eight ounce glasses of water per hour, including at the start of the shift to replace the water lost to sweat. This is the minimum amount per person that should be brought into the field due to the remote location of the sites.
- Dress for conditions. Wear lightweight, light-colored, loose clothing. Wear a wide brimmed hat if possible.
- Wear sunscreen and sunglasses.
- Use cool compresses to stay cool. Placing cool compresses on the back of the neck lowers the body's core temperature.
- Take scheduled rest periods and spend them in the shade.
- Tell your supervisor immediately if you feel you may be getting sick from the heat.
- Know the locations of your closest drinking water supplies.
- Keep track of your coworkers. You all need to look out for each other.
- Know how to contact emergency services in the event of heat illness, how to effectively report the work location to 911, and the location of and the quickest route to the nearest hospital.

3.7 Cold Exposure

Storms can bring unusual cold weather to an area. Cold injury (frostbite and hypothermia) and impaired ability to work are dangers at low temperatures and wet conditions. To guard against this hazard wear appropriate clothing, have warm shelter readily available, carefully schedule work and rest periods, and monitor workers' physical conditions. Employees beginning to feel the effects of cold injury should be removed from exposure to the elements in a manner that will not cause their condition to worsen or cause their body to go into shock.

3.8 Dehydration

Dehydration can occur during wet or dry weather, and in heat or in cold. High altitudes, limited shade, extreme temperatures, and physical exertion increase the rate of dehydration. Drink plenty of water throughout the day. Ensure sufficient amounts of water are brought to the site for each employee. Take water and rest breaks in shaded areas where possible and safe to do so.

3.9 Worker Safety

Only personnel trained in the use of the proper safety equipment will be allowed to complete the required tasks.

3.9.1 Personal Protective Equipment

Personal protective equipment recommended includes hard hats, safety vests, work boots, gloves, and sturdy clothing. This equipment will not only help protect against numerous potential hazards but will also allow others to identify you as belonging to the work site. Additionally, Nitrile, latex, or other plastic-based personal protective equipment will be used by any personnel who is likely to come in contact with storm water runoff as the contents of the water are unknown and potentially dangerous.

The safety officer will select the Personal Protective Equipment (PPE) ensemble based on the potential hazards. **Each worker will be responsible for maintaining his or her own PPE**.

In general the following in Table 2-2 applies:

Table 2-2.
Standard PPE for Non-Hazardous Work Zones

Activity	Head/Face/Ear	Foot	Hands	Respirator	Clothing
General Site Labor	Hard hat (Class B or E)[c] Safety glasses Hearing protection[b]	Steel-toed boots w/ puncture resistant insoles.[d]	Leather/Nitrile gloves as needed	None[a]	Shirt w/sleeves. Long pants. High-visibility reflective vest Personal Floatation Device
Supervision of Work	Hard hat (Class B or E) [c] Safety glasses Hearing protection[b]	Steel-toed boots w/ puncture resistant insoles. [d]	Leather/Nitrile gloves as needed	None[a]	Shirt w/sleeves. Long pants. High-visibility reflective vest Personal Floatation Device
Site Visitors	Hard hat (Class B or E) [c] Safety glasses Hearing protection[b]	Steel-toed boots w/ puncture resistant insoles. [d]	None	None[a]	Shirt w/sleeves. Long pants. High-visibility reflective vest Personal Floatation Device

Notes:
a. Voluntary use of respirators is authorized for nuisance dusts and exposures known to be below PEL levels. For nuisance dust use disposable N, R, or P95 or better (dispose of N or R types daily and P type weekly). For odors use half mask with OV or OV/P95 or better (change at start of week).
b. Hearing protection with adequate noise reduction rating (if consistently exposed to greater than 85 decibels steady-state or 140 decibels impulse). Workers should use clean hands to insert earplugs. Ample supplies of disposable earplugs will be available onsite.
c. Hard hats are required only when overhead dangers exist.
d. Steel-toed boots are required at sites when site conditions pose a risk to foot injury from falling objects.

3.9.2 Special Circumstances

Extreme caution will be used when maintaining pole-mounted equipment, and in areas where equipment installation and maintenance poses high fall danger. Qualified individuals will perform this task with proper equipment due to the danger of potential slips and falls.

3.10 Traffic Safety

A shoulder or lane closure will be considered for all work near the shoulder that is expected to last more than 30 minutes.

3.11 Sample Collection Safety

The following precautions will be taken while collecting samples at the monitoring stations:

- Use plenty of light during the evening hours and use reflective ANSI/ISEA class II or III vests (23 CFR Part 634) if working near the roadway.
- Always wear protective gloves, a reflective vest, and a hard hat when overhead dangers exist.
- Wear rain boots and foul weather gear during rainy weather.
- Keep a safe distance from the water body if deep water, rapid flow or flash flood conditions are present or imminent. Employees should avoid unstable banks, employ the use of a grab pole if an auto sampler fails, and use a lifeline and a personal flotation device. If the Field Team Leader determines that the site is unsafe to collect samples even with proper precautions in place, do not collect samples.
- If replacement or maintenance of equipment is necessary at any time during a monitoring event, field crews will use extreme caution and all necessary PPE, including but not limited to lifelines, and personal floatation devices. If the Field Team Leader determines that the site is unsafe to access even with proper precautions in place, do not attempt to repair the equipment.
- Do not eat or smoke while on the job site.
- Use proper lifting techniques and get assistance when moving coolers and large sample containers or other equipment.
- Handle glass sample containers with care. If a glass container breaks, employees should wear proper PPE and use appropriate cleanup equipment.

3.12 Installation Safety

The following precautions will be taken while installing the stormwater monitoring stations:

- Use plenty of light during the evening hours and use reflective ANSI/ISEA class II or III vests (23 CFR Part 634) if working near the roadway.
- Always wear protective gloves, a reflective vest, and a hard hat when overhead dangers exist.
- Wear boots and foul weather gear during rainy weather.
- Do not eat or smoke while on the job site.

- Use proper lifting techniques and get assistance when moving coolers and large sample composite containers or other equipment.

3.13 Medical Emergency Procedures

Even with full safety awareness and compliance by field teams, medical emergencies can and do occur. To handle minor injuries, field teams will have a basic first aid kit on-site at all times. Table 2-3 is a list of site-specific emergency contacts.

Table 2-3.
Emergency Contacts

Name	Phone	Comments
Police Department Dispatch	911	From cell phone
Tommy Wells, Assistant Project Manager/ Field Sampling Manager	(760) 405-6805	From cell phone

<u>Document all information related to the accident or incident that resulted in injury or damage and report it to the Consultant Safety Manager.</u>

Figure 2-1 through 2-6 display the maps and direction routes for each monitoring site to the closest hospital. Table 2-6 through 2-9 present the list of step-by-step directions from each monitoring location to the nearest hospital

Figure 2-1. Hospital Direction Map for Los Angeles River Downstream of Wardlow Road

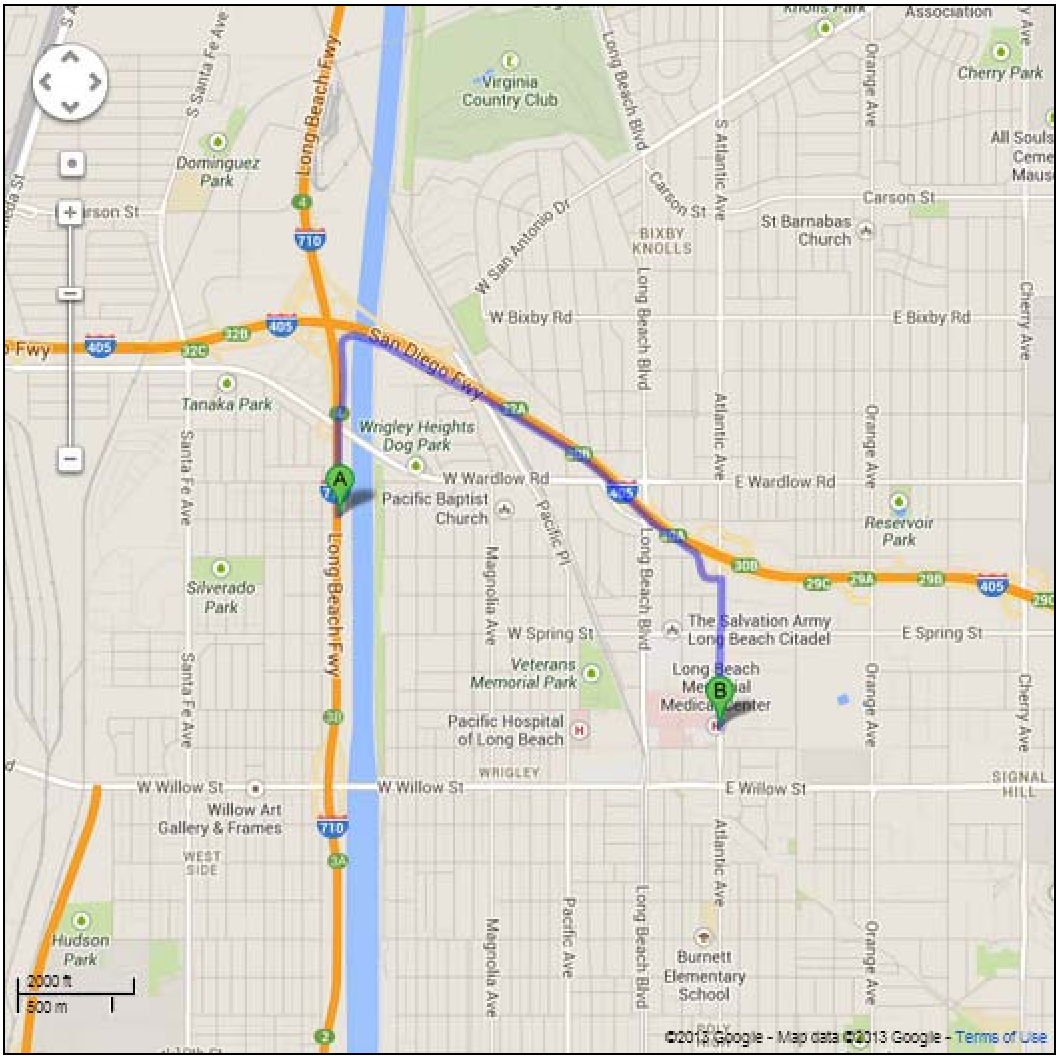

Table 2-4. Directions from Los Angeles River Downstream of Wardlow Road to Long Beach Memorial Medical Center

Direction List	Travel Distance (miles)
Head north on I-710 N	0.3
Take the Interstate 405 S/Interstate 405 N exit toward San Diego/Santa Monica	0.1
Keep right at the fork, follow signs for I-405 S/San Diego and merge onto I-405 S	1.4
Take the Atlantic Ave exit, Turn right onto Atlantic Ave	0.7
Arrive at Long Beach Memorial Medical Center, 2801 Atlantic Ave, Long Beach, CA 90806	

Figure 2-2. Hospital Direction Map for Dominiguez Channel to Memorial Hospital of Gardena

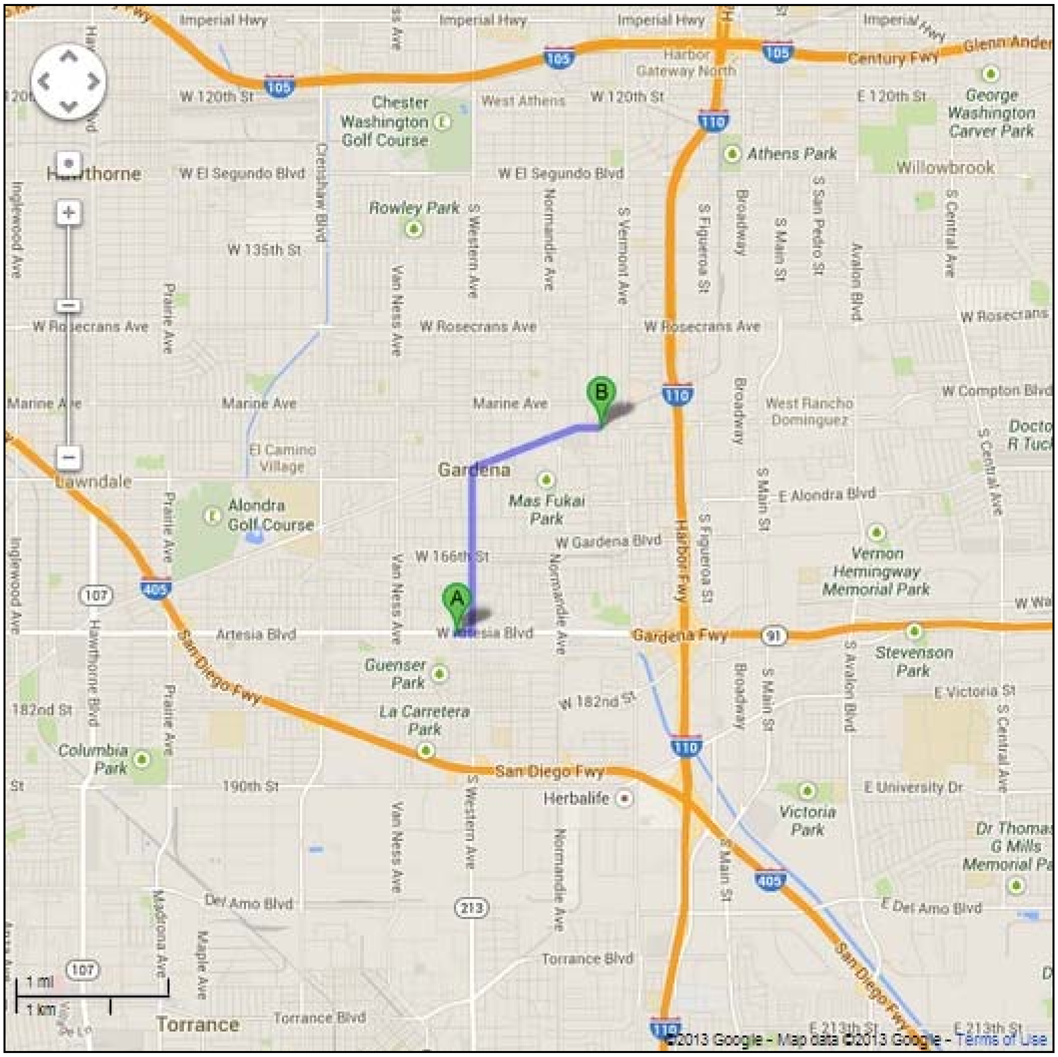

Table 2-5.
Directions from Dominiguez Channel to Long Beach Memorial Medical Center

Direction List	Travel Distance (miles)
Head east on Artesia Blvd toward S Western Ave	0.1
Take the 1st left onto S Western Ave	1.1
Turn right onto W Redondo Beach Blvd	0.9
Arrive at Memorial Hospital of Gardena, 1145 W Redondo Beach Blvd, Gardena, CA 90247	

Figure 2-3. Hospital Direction Map for Torrance Lateral Downstream of South Main Street to Harbor – UCLA Medical Center

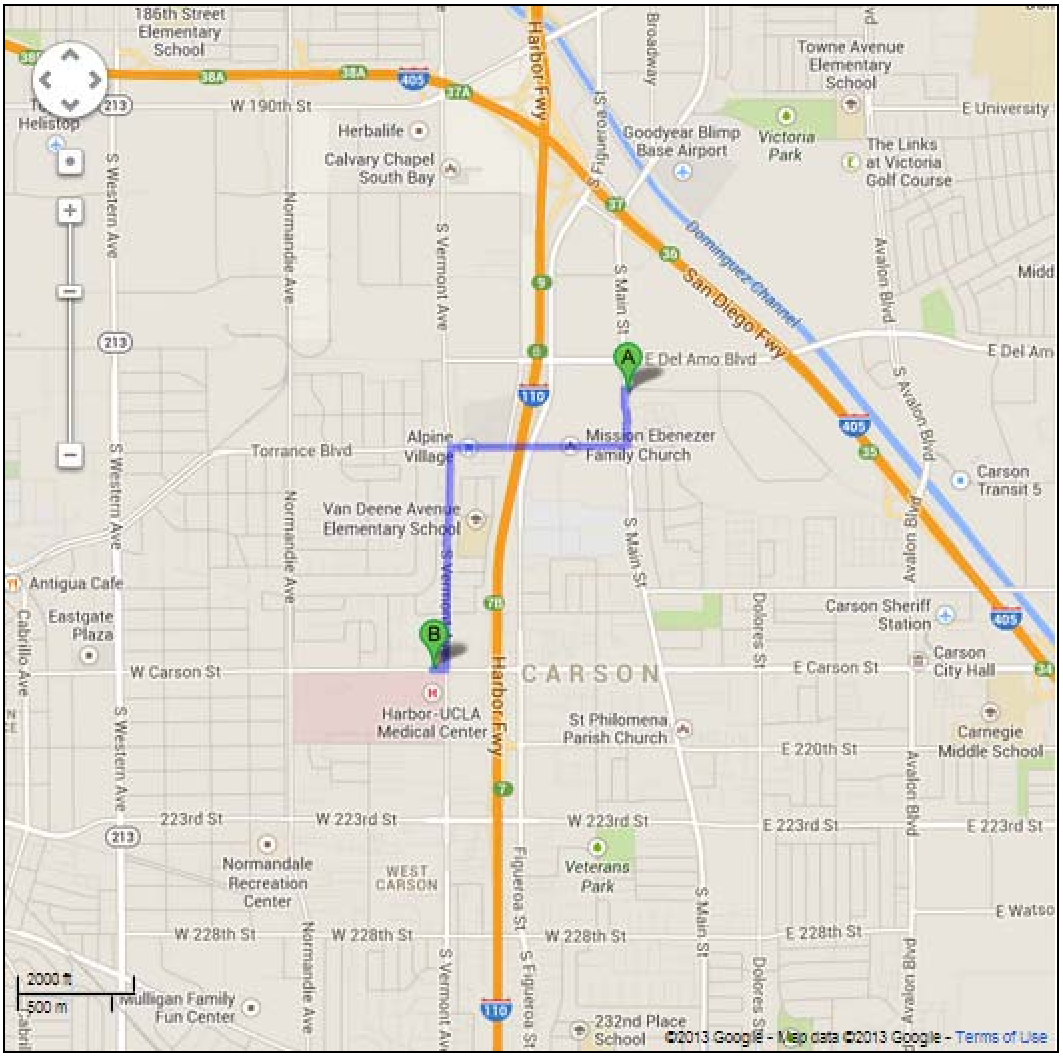

Table 2-6.
Directions from Torrance Lateral Downstream of South Main Street to Harbor – UCLA Medical Center

Direction List	Travel Distance (miles)
Head north on S Main St toward Lenardo Dr	75ft
Make a U-turn at Lenardo Dr	0.2
Take the 1st right onto W Torrance Blvd	0.6
Turn left onto S Vermont Ave	0.7
Take the 3rd right onto W Carson St	246ft
Harbor – UCLA Medical Center, 1000 W Carson St, Torrance, CA 90502	

Figure 2-4. Hospital Direction Map for Port Land Use Site (Pier A) to Long Beach Memorial Medical Center

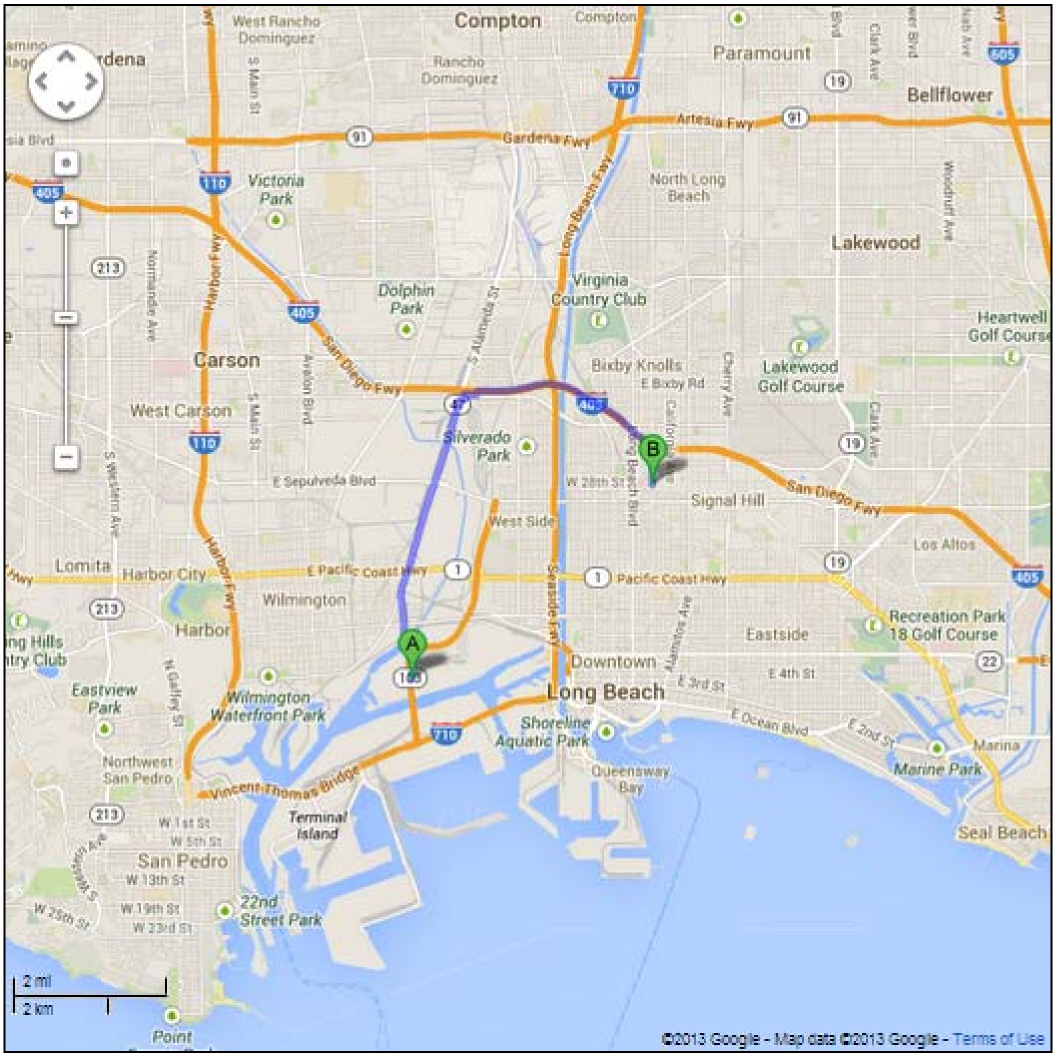

Table 2-7.
Directions from Port Land Use Site (Pier A) to Long Beach Memorial Medical Center

Direction List	Travel Distance (miles)
Head north on Pier A Plaza	0.3
Take the 1st left onto Pier A Way	0.2
Take the 1st right onto N Henry Ford Ave	0.7
Continue onto S Alameda St	2.6
Take the exit toward E 223rd St	0.1
Turn right onto E 223rd St	0.2
Turn left onto the I-405 S ramp	0.2
Turn right onto I-405 S	2.3
Take the Atlantic Ave exit, turn right onto Atlantic Ave	0.7
Long Beach Memorial Medical Center, 2801 Atlantic Ave, Long Beach, CA 90806	

Figure 2-5. Hospital Direction Map for Machado Lake Overflow to Long Beach Memorial Medical Center

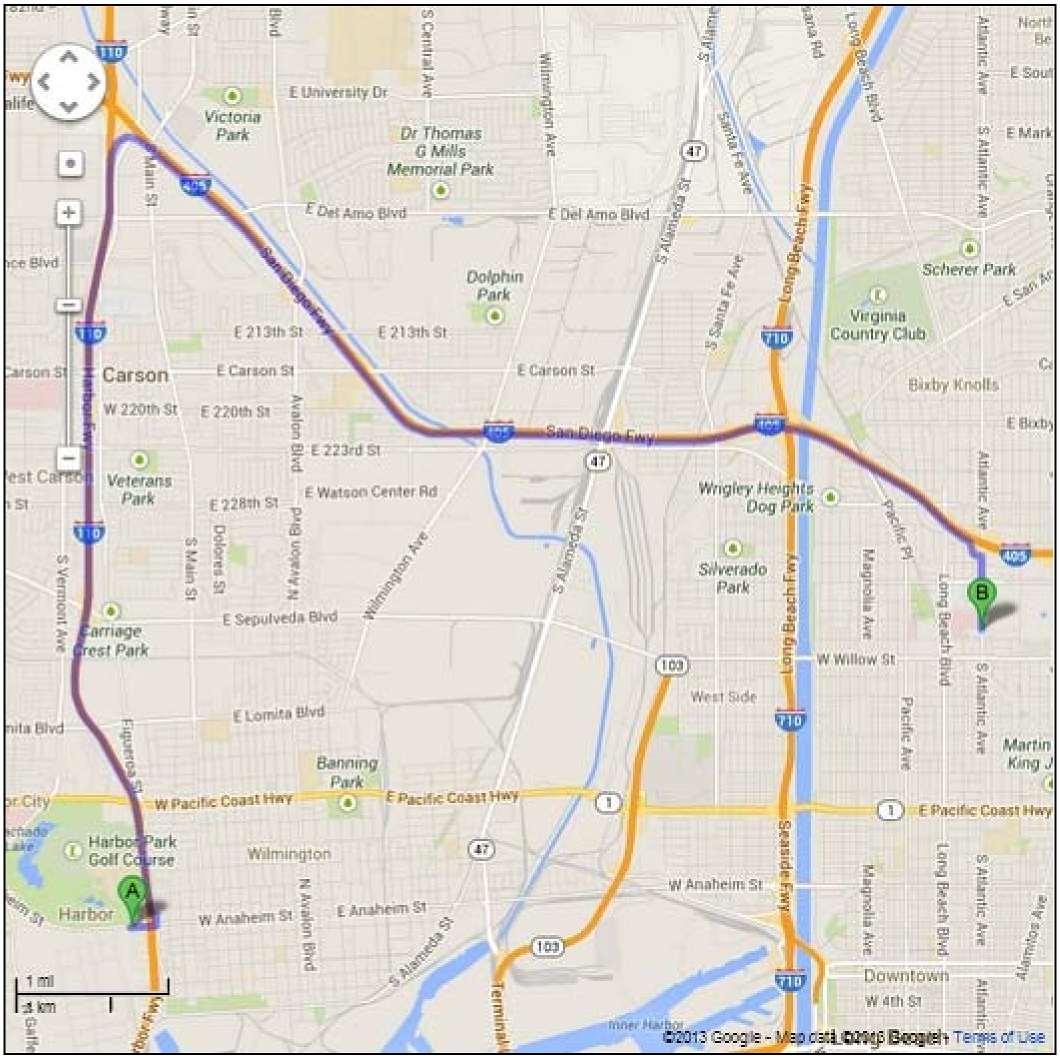

Table 2-8.
Directions from Machado Lake Overflow to Long Beach Memorial Medical Center

Direction List	Travel Distance (miles)
Head east on W Anaheim St toward W I St	0.2
Take the 3rd left onto Figueroa St	331ft
Turn left to merge onto I-110 N	5
Take the exit onto I-405 S/San Diego Fwy toward Long Beach	6.9
Take the Atlantic Ave exit, Turn right onto Atlantic Ave	0.7
Long Beach Memorial Medical Center, 2801 Atlantic Ave, Long Beach, CA 90806	

Figure 2-6. Hospital Direction Map for Consolidated Slip/Dominguez Channel Freshwater Lens to Long Beach Memorial Medical Center

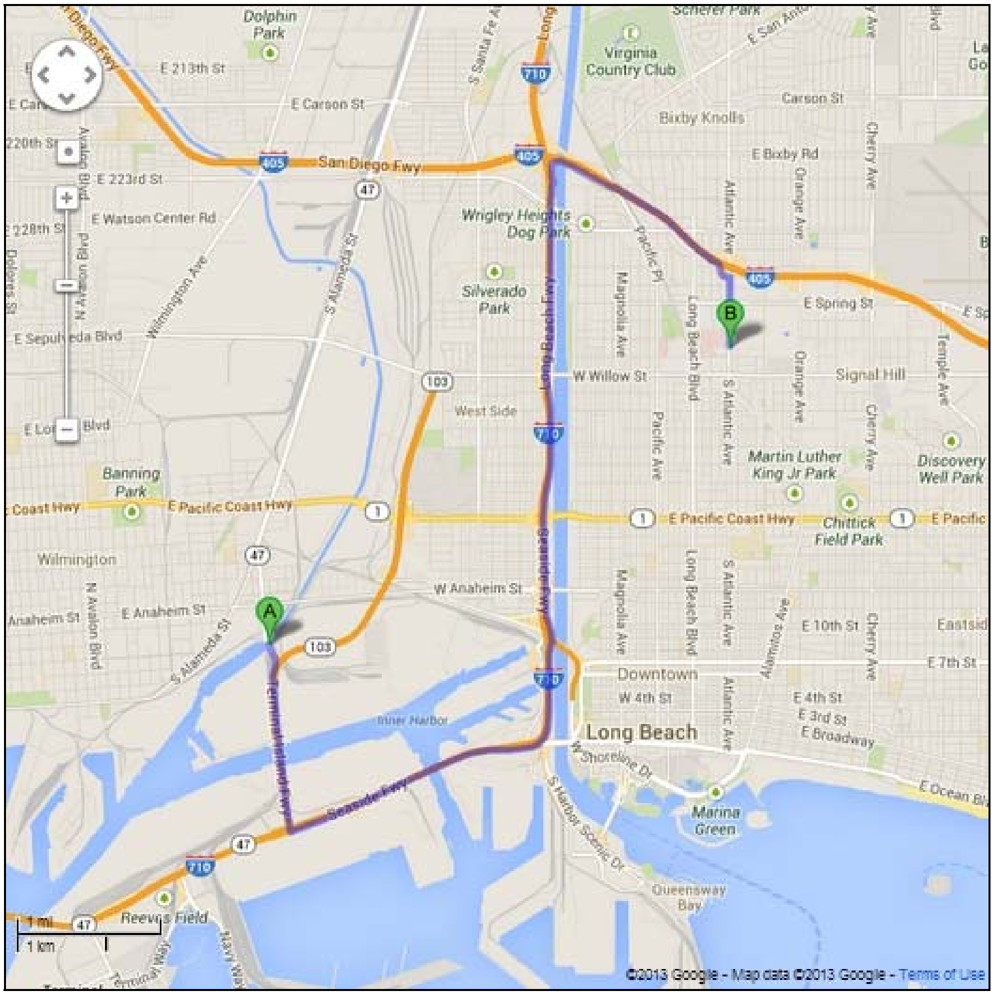

Table 2-9.
Directions from Consolidated Slip/Dominguez Channel Freshwater Lens to Long Beach Memorial Medical Center

Direction List	Travel Distance (miles)
Head south on N Henry Ford Ave toward Pier A Way	282ft
Take the California 47 S ramp	0.2
Merge onto CA-47 S	1
Continue onto Commodore Schuyler F. Helm Bridge	0.1
Turn left onto the Interstate 710 N ramp	0.3
Keep left at the fork, follow signs for I-710 N/Piers B-J/Downtown and merge onto I-710 N	5.5
Take the Interstate 405 S/Interstate 405 N exit toward San Diego/Santa Monica	0.1
Keep right at the fork, follow signs for I-405 S/San Diego and merge onto I-405 S	1.4
Take the Atlantic Ave exit, Turn right onto Atlantic Ave	0.7
Long Beach Memorial Medical Center, 2801 Atlantic Ave, Long Beach, CA 90806	

3.14 Hazardous Spills

Hazardous substances may be used for various purposes at and around the site. When working with hazardous substances, leaks and spills are always a concern. At sites within close proximity to the roadway, the potential also exists of hazardous spills originating from traveling vehicles.

A spill may present a number of hazards. The specific hazards depend on the substance(s) involved. Among the possibilities are:

- Fire
- Explosion
- Contamination of individuals who come in contact with the spilled substance
- Hazardous substances entering the water supply

Spill response procedures are designed to minimize the risk of any of these things occurring as a result of a spill or, at the very least, reducing the degree of hazard. The primary concern of spill contamination is to stop or retard the spill before it becomes serious.

Field teams working with potentially hazardous materials will be trained in the use of proper personal protective equipment, the safe usage or handling of the substances, and contingency plans for spills and leaks.

3.15 Tailgate Safety Training

The HSO or another designated Safety Officer will conduct tailgate safety training sessions regularly. These meetings will be held on-site prior to work operations. New personnel working on site will be required to attend a tailgate meeting prior to work operations. The purpose of the safety-training meeting is to ensure that field team members understand and will abide by all safety and potential emergency response measures that may be necessary for the well being of the field team.

The following items will be discussed at each safety meeting:

- Traffic safety
- Safe entering and exiting of the highway or roadway
- Use of personal protective clothing and equipment
- Potential chemical and physical hazards and how to deal with them
- Nearest hospital information
- Emergency response procedures
- Any other site-specific safety issues

Field team members must sign the tailgate safety training meeting form in acknowledgment of understanding all issues discussed. An example of a tailgate meeting form is included as Figure 2-7.

Figure 2-7. Tailgate Safety Meeting Form

Project No.: ____________________________

Client: _____________________________ Site Location: ______________________

Safety Topics Discussed
1. Protective clothing and equipment: PPE – Use the PPE that has been provided to prevent injury, exposure to the cold and wet weather conditions, and exposure to storm water runoff containing diluted levels of chemical contaminates. Typical PPE may consist of a hard hat, rain gear, rubber rain boots, nitrile gloves, pants, long sleeved shirts, and layered clothing. Use and wear a PFD if working over water, on piers or quay walls. Equipment and tool use – Use proper equipment for the task in the prescribed manner to prevent injury.
2. Chemical hazards: Dermal/eye contact with water contaminants – Do not overfill containers. Fill bottles only to the neck or as otherwise instructed by the site manager. Food, drinks, or cigarettes will not be consumed while observing or sampling. Prior to handling food, drinks, or cigarettes, personnel will wash hands and face.
3. Physical hazards: Lifting – Use proper equipment and lifting and motion technique. Do not twist back, stay balanced and use your legs. Vehicle Hazards – Be aware of vehicle operations in your area. Make eye contact with vehicle operators on approaching equipment. Driving – Drive vehicle in accordance with company policy. Drive in right lane, use 3-second rule or extended distance from vehicle in front of you. Drive speed limit or slower depending on road conditions and visibility. Working over water – Exercise care and alertness when working around water. Use the buddy system and wear a PFD if working over water, on piers or quay walls.
4. Vehicle Hazards: - Wear seat belt while vehicle is in motion. - Do not exceed the posted speed limit. - Reduce speed in adverse weather conditions. - Always drive with headlights on. Drive vehicle in accordance with AMEC policy. Drive in the right lane and maintain an extended distance (3-second rule) from the vehicle in front of you. - Drive defensively and follow traffic regulations. - Do not make sudden lane changes, weave through traffic, or cut off other drivers. - Do not use handheld or hands-free cell phones while driving. - Stop at intersections and give the right-of-way to other vehicles and pedestrians. - Check tires for proper inflation.
5. Traffic Hazards: - Be aware of vehicles in your area. Make eye contact with approaching vehicle operators. - In dry weather, a reflective vest should be worn for maximum visibility in high-traffic areas. - Use traffic cones around the work zone in high-traffic areas. - At least two persons must be present to perform any work in high-traffic areas. One of these persons must monitor approaching traffic for any potential hazards. Watch out for moving vehicles and equipment and equipment.
6. Environmental and biohazards: Dangerous animals and insect bites and stings – Be aware of your surroundings and watch for dangerous animals and insects such as spiders and snakes. Wear appropriate clothing such as pants, long sleeved shirts, and steel toe boots. Watch for Poison Oak.

Safety Topics Discussed (continued)
7. Equipment hazards: Pinch Points – Use proper equipment in the prescribed manner in conjunction with proper lifting techniques to avoid pinch points. Wear leather or canvas gloves – to protect the hands when performing manual labor, such as moving manhole covers
8. Decontamination procedures: - If an exposure or eye contact occurs, respond with appropriate first aid and immediately notify the supervisor.
9. Other: - The supervisor will review any other significant safety matters specific to sampling and observation activities at this base.
10. Review of emergency procedures: In case of emergency, immediately dial 911.

			Attendees	
Date	**Site Activity**	**Topic Discussed**	**Printed Name**	**Signature**

Meeting Conducted by:

Name ______________________ Title ______________________

Signature ______________________ Date ______________________

			Attendees	
Date	**Site Activity**	**Topic Discussed**	**Printed Name**	**Signature**

Meeting Conducted by:

Name ______________________ Title ______________________

Signature ______________________ Date ______________________

ATTACHMENT A

ACTIVITY HAZARD ANALYSIS

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AHA – Harbor Toxics TMDL Monitoring

Activity/Work Task:	Port of Los Angeles/Port of Long Beach Harbor Toxics TMDL Monitoring		Overall Risk Assessment Code (RAC) (Use highest code)					M
Project Location:	Long Beach, California		**Risk Assessment Code (RAC) Matrix**					
Contract Number:	XXXXXXXXX		**Severity**	**Probability**				
Date Prepared:	12/2/2013	**Date Accepted:**		Frequent	Likely	Occasional	Seldom	Unlikely
Prepared by (Name/Title):	Kiernan Brtalik, Technical Professional III		Catastrophic	**E**	**E**	**H**	**H**	**M**
Reviewed by (Name/Title):	Tyler Huff, Health and Safety Officer		Critical	**E**	**H**	**H**	**M**	**L**
			Marginal	**H**	**M**	**M**	**L**	**L**
			Negligible	**M**	**L**	**L**	**L**	**L**

Notes:
Harbor Toxics TMDL Monitoring is comprised of dry and wet weather monitoring events at various locations in the Long Beach region. Monitoring consists of flow data collection and water sample collection utilizing automated monitoring equipment. Large volumes of sample water will be collected and transported to the laboratory by AMEC E & I personnel to increase safety and efficiency.

This AHA is not an exhaustive summary of all hazards associated with the sites. Refer to the site HASP for additional requirements. All personnel should follow general site safety controls for Slips Trips and Falls, Biological hazards, cuts, lacerations, pinch points, and all applicable emergency procedures.

Step 1: Review each **"Hazard"** with identified safety **"Controls"** and determine RAC (See above)	
"Probability" is the likelihood to cause an incident, near miss, or accident and identified as: Frequent, Likely, Occasional, Seldom or Unlikely.	**RAC Chart**
"Severity" is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic, Critical, Marginal, or Negligible	**E = Extremely High Risk**
	H = High Risk
Step 2: Identify the RAC (Probability/Severity) as E, H, M, or L for each "Hazard" on AHA. Annotate the overall highest RAC at the top of AHA.	**M = Moderate Risk**
	L = Low Risk

Job Steps	Hazards	Controls	RAC
1) Prepare for Site Visit for Equipment Installation and/or Monitoring.	1a) N/A	Prior to leaving for site: ▪ Obtain and review HASP prior to site visit, if possible ▪ Determine PPE needs – bring required PPE to the site, if not otherwise being provided at the site (e.g., steel toed boots) ▪ Determine training and medical monitoring needs and ensure all required Health and Safety training and medical monitoring has been received and is current ▪ Ensure all workers are fit for duty (alert, well rested, and mentally and physically fit to perform work assignment) ▪ If respiratory protection is required/potentially required, ensure that training and fit-testing has occurred within the past year. ▪ Familiarize yourself with route to the site	**L**

AHA – Harbor Toxics TMDL Monitoring

Job Steps	Hazards	Controls	RAC
	1b) Vehicle defects	Inspect company owned/leased vehicle for defects such as: ▪ Flat tires ▪ Windshield wipers worn or torn ▪ Oil puddles under vehicle ▪ Headlights, brake lights, turn signals not working	L
2) Prepare and label sample containers and equipment.	2a) Back injury and strains when lifting sample bottles, coolers, and equipment.	1a-i) Use proper lifting technique. Do not twist back, stay balanced and use your legs. When lifting objects weighing 50 lbs or more, two or more employees are required to execute the lift.	M
3) Load sampling supplies and equipment into vehicle.	3a) Back injury and strains when lifting sample bottles, coolers, and equipment.	2a-i) Use proper lifting technique. Do not twist back, stay balanced and use your legs. When lifting objects weighing 50 lbs or more, two or more employees are required to execute the lift.	M
	3b) Pinching and/or crushing of hands and fingers.	Use proper lifting techniques. Dry off hands before lift to avoid slippage. Use appropriate canvas or leather gloves.	M
	3c) Insufficient emergency equipment, unsecured loads	Insufficient emergency equipment, unsecured loads: ▪ Ensure vehicle has first aid kit and that all medications are current (if first aid kits are not provided at the site) ▪ Ensure vehicle is equpped with warning flashers and/or flares and that the warning flashers work ▪ Cell phones are recommended to call for help in the event of an emergency ▪ Vehicles carrying tools must have a safety cage in place. All tools must be properly secured ▪ Vehicles must be equipped with chocks if the vehicle is to be left running, unattended. ▪ Ensure sufficient gasoline is in the tank	L
4) Check and calibrate sampling equipment.	4a) Muscle Strain - lifting, twisting, tugging	▪ Inspect all PPE and equipment and ensure that it is working properly. ▪ Get assistance from a coworker or use mechanical means to move equipment (dolly, cart, etc.)	L
	4b) Slips, trips, falls, strain	▪ Wear proper footwear. ▪ Pay attention to where walking.	L
5) Operating vehicles	5a) Collisions, unsafe driving conditions	Drive Defensively!: ▪ Seat belts must be used at all times when operating any vehicle on company business. ▪ Drive at safe speed for road conditions	M

AHA – Harbor Toxics TMDL Monitoring

Job Steps	Hazards	Controls	RAC
		▪ Maintain adequate following distance ▪ Pull over and stop if you have to look at a map ▪ Try to park so that you don't have to back up to leave. ▪ If backing in required, walk around vehicle to identify any hazards (especially low level hazards that may be difficult to see when in the vehicle) that might be present. Use a spotter if necessary	
6) Driving to the jobsite (mobilization)	6a) Dusty, winding, narrow roads	Dusty, winding, narrow roads ▪ Drive confidently and defensively at all times. ▪ Go slow around corners, occasionally clearing the windshield.	L
	6b) Rocky or one-lane roads	Rocky or one-lane roads: ▪ Stay clear of gullies and trenches, drive slowly over rocks. ▪ Yield right-of-way to oncoming vehicles---find a safe place to pull over.	L
	6c) Stormy weather, near confused tourists	Stormy weather, near confused tourists: ▪ Inquire about conditions before leaving the office. ▪ Be aware of oncoming storms. ▪ Drive to avoid accident situations created by the mistakes of others.	M
	6d) When angry or irritated	When angry or irritated: ▪ Attitude adjustment; change the subject or work out the problem before driving the vehicle. Let someone else drive.	L
	6e) Turning around on narrow roads	Turning around on narrow roads: ▪ Safely turn out with as much room as possible. ▪ Know what is ahead and behind the vehicle. ▪ Use a backer if available.	L
	6f) Sick or medicated	Sick or medicated: ▪ Let others on the crew know you do not feel well. ▪ Let someone else drive.	L
	6g) On wet or slimy roads	On wet or slimy roads ▪ Drive slow and safe, wear seatbelts.	M
	6h) Animals on road	Animals on road ▪ Drive slowly, watch for other animals nearby. ▪ Be alert for animals darting out of wooded areas	L
7) Working in areas	7a) Preparation for	▪ Assess possible threats at each site location	L

AHA – Harbor Toxics TMDL Monitoring

Job Steps	Hazards	Controls	RAC
with potential wild animals or dogs exists, example outdoor wooded areas, fields or residential areas.	Site Visit	▪ Wear field clothes such as long pants, long sleeves, and boots to provide protection if attacked.	
	7b) Preventing Bites or Attacks	▪ Be aware of surroundings. Locate and work at safe distance from dens, nests, warrens, cages, leashed animals, or “homes” of animals. ▪ Learn body language and warning signs of animals posturing to attack. ▪ See attached drawings and explainations of animal behavior ▪ Do not approach strange dogs especially one who's tied, tethered or confined behind a fence or in a car. They often feel vulnerable and will fight to protect their territory ▪ Never hang over fences or put your hands through fence openings to touch a dog, even one you know. ▪ Never approach a dog that is acting afraid, growling, showing teeth or who has puppies - even if the owner is there. ▪ Don't disturb a dog while sleeping, eating, chewing on a toy, or caring for puppies. ▪ Always let the dog sniff you first before petting. Pat on the back or side, reaching over a dog’s head may scare him. ▪ Never run past a dog. Joggers and children on bicycles can trigger their instinct to chase and attack ▪ Never tease a dog by pulling ears, tail or feet or play too rough. Avoid games such as tug-of-war, jumping up for toys/food, wrestling and chase, all could lead to injury if the game gets out of hand ▪ Be careful around older dogs. They may be blind, sensitive to touch or hearing-impaired ▪ Never try to break up a dog fight with your hands. Use a water hose, stick or throw a blanket over the dogs to disorient them ▪ Alert animal control to stray or roaming dogs.	**M**
	7c) Attacking Animal	▪ If an animal shows aggressive behavior, slowly walk away from it. ▪ If the animal approaches you, remain calm and quiet. Never turn your back, scream and run away. Avoid sudden movements. ▪ If you say anything, speak calmly and firmly ▪ If the animal still follows you, remain motionless with hands at your sides. Face the animal but turn your head away and avoid eye contact. If you are boring or not a threat, there is a good chance the animal will lose interest and move on. ▪ If the animal does attack, put anything that you can put between yourself and the animal	**M**

AHA – Harbor Toxics TMDL Monitoring

Job Steps	Hazards	Controls	RAC
		like a tree or car. ▪ If lunged at, don't try to overpower the animal. ▪ If you're holding something, put it into his mouth. If you don't have anything in your hand, put your arm up to protect your face. ▪ If the animal jump son you or knocks you down, don't move or scream or roll around. Pretend that you are a turtle: curl into a ball, face down, cover your head with your arms and use your hands to protect the back of your neck. Stay in this position until the animal leaves.	
8) If bitten or wounded.	8a) Allergic reactions, excessive bleeding, broken bones	Allergic reactions, excessive bleeding, broken bones ▪ Field crews must maintain a stocked first aid kit. ▪ Work using the buddysystem or maintain communicaitons by radio or cell phone. ▪ If you or anyone you are working with is allergic. Make sure you carry emergency medication with you at all times. ▪ If the victim develops hives, asthmatic breathing, tissue swelling, or a drop in blood pressure, seek medical help immediately. ▪ If the person is bitten, apply pressure to stop bleeding. - Immediately wash the area thoroughly with soap and water. - Cover lightly with an antiseptic ointment. - Cover with a sterile bandage. - See medical attention for additional care and advice as appropriate. ▪ If bitten, contact authorities (the local animal care and control agency) and tell them everything you can about the dog: the owner's name and address, if you know it; color of the dog; size; where you saw it; if you've seen it before, if you know it is a stray, and in which direction the dog went. These details may help animal-control officers locate the dog	**M**
	8b) Rabid Animal	3A) Rabid Animal ▪ If the animal is a vaccinated pet, follow the steps for basic bite care above. ▪ If you can identify or safely capture the animal, this may help your doctor determine if you need anti-rabies therapy. The dog may need to be quarantined. ▪ If it is a wild animal, only try to capture it if you can do so without getting bitten again. If the animal cannot be contained and must be killed to prevent its escape, do so without damaging the head. The brain will be needed to test for rabies.	**M**
9) Site Preparation	9a) Slip/Trip/Fall	Slip/Trip/Fall: ▪ Mark all holes and low spots in area with banner tape. Instruct personnel to avoid these areas	**M**
10) Load/carry	10a) Slip/Trip/Fall	Slip/Trip/Fall	**M**

AHA – Harbor Toxics TMDL Monitoring

Job Steps	Hazards	Controls	RAC
equipment to the site.		▪ Survey and clear the pathway.	
	10b) Muscle Strain - lifting, twisting, tugging	Muscle Strain - lifting, twisting, tugging ▪ Proper lifting, ergonomic practices and body mechanics. ▪ Share the load, move items in smaller shifts, or use cart.	**M**
	10c) Irate property owners near site location	Irate property owners near site location ▪ If public is present and weary of your presence: check in to introduce yourself upon arrival. ▪ Be courteous and diplomatic.	**L**
	10d) Crime	Crime ▪ Do not enter areas where threats are present. ▪ Contract security where applicable. ▪ Use the buddy system. ▪ Maintain contact with support such as radio or cell phone.	**L**
	10e) Struck by traffic - sampling from a bridge or roadway.	Struck by traffic - sampling from a bridge or roadway. ▪ Wear orange/yellow safety vest ▪ Use buddy system. ▪ Use traffic cones and a lookout. ▪ Attempt to sample away from the bridge if possible.	**M**
11) Field parameters	11a) Falling into water	Falling into water ▪ Limit access to water. ▪ Use equipment that facilitates reaching the location from a safe distance. ▪ Work using the buddy system. ▪ Wear PFD if working over water. ▪ Utilize Lifelines if working near swift moving water.	**M**
	11b) Slips trips and falls	Slips trips and falls ▪ Wear appropriate footwear. ▪ Survey and clear walking area. ▪ Do not walk on slippery surfaces. ▪ Housekeeping.	**M**
	11c) Stuck in the mud or sand	Stuck in the mud or sand ▪ Ensure secure footing. ▪ Provide walkways, platforms or secure walking surface. ▪ Use the buddy system and maintain communications with support staff.	**L**

AHA – Harbor Toxics TMDL Monitoring

Job Steps	Hazards	Controls	RAC
		▪ (See AHA for Working in a Muddy Area)	
	11d) Vermin, Insect/animal born disease	Vermin, Insect/animal born disease ▪ Survey the area for dens, nests, etc. ▪ Identify areas where biological hazards may be present. ▪ Be aware of your surroundings. ▪ Wear insect netting clothing or apply insect repellant on all exposed skin surfaces as appropriate – consider sample contamination ▪ Wear long sleeve shirt and full length pants ▪ Wear appropriate footwear (snake boots, etc.) ▪ Avoid high grass areas if possible ▪ Tuck pants leg into boot ▪ Do not put hand/arm into/under an area that you cannot see into/under clearly ▪ Do not touch any suspected contaminant without appropriate hand PPE ▪ Wash hands as soon as possible upon completion of task. ▪ Perform routine inspections for ticks, leaches, etc. of yourself and co-workers. ▪ Contract vermin relocation, if applicable. ▪ Remain vigilant and respectful of wildlife.	**L**
	11e) Weather – temperature extremes	Weather – temperature extremes ▪ Train workers about weather and appropriate precautions. ▪ Heat: o Familiarize self with signs of heat related illnesses: cramps, heat rash, dehydration, heat exhaustion, and heat stroke. ▪ Sun: o Keep body protected o Wear sunscreen, wide brimmed hat or hardhat. o Drink plenty of fluids to remain hydrated. o Schedule work for cool part of day. o Take breaks in the shade. ▪ Wind: o Wear layered clothing, gloves, hard hat with winter liner, etc. ▪ Cold: o During cold weather - layer clothing and wear wind impervious outerwear o During warm months – wear a long sleeve cotton/breathable fabric shirt and pant.	**M**

Job Steps	Hazards	Controls	RAC
	11f) Poor footing - slip, suction, entrapment or fall.	Poor footing - slip, suction, entrapment or fall. ▪ Use a walking stick or probe to check footing and potietial deep holes prior to entering area. ▪ Wear appropriate foot wear such as boots. Over shoe boots provide protection to foot wear as well as a layer to remove if foot gets stuck. ▪ Be aware of surroundings. Avoid muddy areas if possible. ▪ Use the buddy system. Keep a safe distance between workers to avoid both workers getting stuck. ▪ Be prepared with rope, plywood, shovel, pole to assist “rescue” from being stuck in the mud. ▪ If walking in mud is required to reach sample area, several techniques may be employeed to limit foot suction and sinking in mud or quicksand. - Provide a walkway or elevated surface. - Use of snow fencing on the surface or snow shoes to disperse your weight. - Use a skating motion and keep moving until on location. Use a platform to stand on for sampling.	M
	11g) Allergic reactions, painful stings	Allergic reactions, painful stings ▪ Be alert to hives in brush or in hollow logs. Watch for insects travelling in and out of one location. ▪ See AHA – Insect bites and stings.	L
	11h) Skin irritation, encephalitis	Skin irritation, encephalitis ▪ Wear long sleeves and trousers.	L
12) Sample collection	12a) Same as Item #11 above.	Same as Item #11 above.	M
	12b) Bending, pulling, twisting	Bending, pulling, twisting ▪ Use a vibrating or wiggling motion on the sample device to break the soil suction. ▪ Proper lifting technique.	M
	12c) Chemical exposure	Chemical exposure ▪ Wear PPE including protective gloves, coveralls, safety glasses as appropriate. ▪ Work upwind of the sample location. ▪ Minimize exposure using a shovel/spoon or tool to collect the sample. ▪ Review and understand MSDS for all chemicals being handled. ▪ Be careful when handling acids and caustic substances. ▪ Wear adequate PPE and wash hands after completion of task.	M

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Job Steps	Hazards	Controls	RAC
	12d) Vegetation, sticks, reeds, - cuts and punctures	Vegetation, sticks, reeds, - cuts and punctures ▪ Clear access to site. ▪ Be familiar with toxic plants such as poison ivy. Avoid such plants. ▪ Wash thoroughly after accidental contact with toxic materials and plants.	L
13) Sample preparation.	13a) Lifting heavy objects (covers, pumps, sampling equipment, coolers, etc.) Muscle strain	Lifting heavy objects (covers, pumps, sampling equipment, coolers, etc.) Muscle strain ▪ Use proper ergonomics when lifting heavy objects ▪ Use appropriate mechanical assistance and tools when possible.	M
	13b) Chemical Exposure	Chemical Exposure ▪ Wear PPE including protective gloves, coveralls, safety glasses as appropriate. ▪ Wash/wipe or decontaminate exterior of sample containers and equipment. ▪ Use care handling preservatives (acids/bases.)	L
	13c) Sharps and knives	Sharps and knives ▪ Use care handling tape dispensers, knives and sharp objects.	L
	13d) Extreme cold (ice preservation)	Extreme cold (ice preservation) ▪ Minimize exposure to ice. ▪ Use a shovel/spoon or tool to fill bags for preserving samples in coolers.	L
14) Mobilization/ Demobilization of Equipment and Supplies	14a) Struck by Heavy Equipment/Vehicles	Struck by heavy equipment: ▪ Be aware of heavy equipment operations. ▪ Keep out of the swing radius of heavy equipment. ▪ Ground personnel in the vicinity of heavy equipment operations will be within the view of the operator at all times ▪ Employees shall wear a high visibility vest or T-shirt (reflective vest required if working at night). ▪ Ground personnel will be aware of the counterweight swing and maintain an adequate buffer zone. ▪ Ground personnel will not stand directly behind heavy equipment when it is in operation.	M
	14b) Struck by Equipment/Supplies	Struck by Equipment/Supplies: ▪ Workers will maintain proper space around their work area, if someone enters it, stop work. ▪ When entering another worker's work space, give a verbal warning so they know you are there.	M
	14c) Overexertion Unloading/Loading	Overexertion Unloading/Loading Supplies:	M

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Job Steps	Hazards	Controls	RAC
	Supplies	▪ Train workers on proper body mechanics, do not bend or twist at the waist while exerting force or lifting. ▪ Tightly secure all loads to the truck bed to avoid load shifting while in transit.	
	14d) Overexertion Unloading/Loading Supplies	Caught in/on/between: ▪ Do not place yourself between two vehicles or between a vehicle and a fixed object.	**M**
	14e) Slip/Trip/Fall	Slip/Trip/Fall: ▪ Mark all holes and low spots in area with banner tape. Instruct personnel to avoid these areas. ▪ Drivers will maintain 3 point contact when mounting/dismounting vehicles/equipment. ▪ Drivers will check surface before stepping, not jumping down.	**M**
	14f) Vehicle accident	Vehicle accident: ▪ Employees should follow AMEC vehicle operation policy and be aware of all stationary and mobile vehicles.	**M**
15) Report writing	15a) Ergonomic injury due to repetitive motion.	▪ Do not perform computer works for excessive periods of time. Take micro breaks every 15-20 minutes. ▪ Perform ergonomic stretching exercises on a regular basis. ▪ If you have any ergonomic concerns, contact your local H&S representative to request an ergonomic evaluation of your work space.	**L**
	15b) Trips and falls in hallways and passageways due to obstructions	All floors shall be free of dangerous projections or obstructions and any tripping hazards, and maintained in good repair, and be dry or slip-resistant. Wipe up spills promptly; never leave file or desk drawers open. Ensure unobstructed walking space between or around: ▪ office or workstation-24” ▪ hallway, walkway or common area-44”	**L**

Activity/Work Task: Confined Space Entry

Job Steps	Hazards	Controls	RAC

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1. Initial Preparation	Untrained/Inadequately trained worker Inadequate monitoring equipment present at the site Inadequate equipment/defective equipment at the site Permit does not identify all hazards	▪ Ensure that all employees have received all required training ▪ Determine potential hazards (atmospheric or physical) as much as possible prior to entering the space. If hazards cannot be determined prior to entry, then entry will be done in Level B PPE with force air ventilation. ▪ Determine monitoring methods and acceptable atmospheric contaminant levels within the space. ▪ Determine equipment needs and method of rescue ▪ Determine PPE needs based on hazards associated with the space. ▪ Calibrate monitoring equipment prior to entry ▪ Begin completing the Permit. Contact the HSE or Division ES&H Manager for help, as needed	L
2. Pre-Entry Space Preparation	Exposures to physical and atmospheric hazards within the space	▪ Shut down and prepared space for entry. ▪ If possible, empty the space of any materials, solid or liquid. ▪ Lockout/Tagout all potentially hazardous energy sources. ▪ If the space is closed, any conditions that may make opening the space hazardous, such as high temperatures or pressures, shall be eliminated before opening.	L
3. Atmospheric Testing	Employee exposure to atmospheric hazards	▪ Test the conditions in the space prior to entry. ▪ Prior to opening up the space, determine PPE requirements for employee doing the atmospheric testing. If a potential for exposure exists, respiratory protection will be required. Monitor breathing zone of tester to ensure not over exposed during the atmospheric testing of the confined space ▪ Potential atmospheric hazards shall be tested in the following sequence: 1. Oxygen content (19.5% - 23.5% acceptable) 2. Flammable gases and vapors (<10% LEL acceptable) 3. Potential toxic contaminants (Acceptable levels <IDLH <u>and</u> within acceptable use range of respiratory protection – See Permit). ▪ Test air within space at least at intervals of 4 feet vertically to ensure that all atmospheric hazards associated with stratified air are detected. ▪ Compare readings to Acceptable Entry Conditions	M

		outlined in the Permit. ▪ If a hazardous atmosphere exists or could potentially exist, test or monitor the permit space as necessary to determine if acceptable entry conditions are being maintained during the course of entry operations ▪ If a hazardous atmosphere that exceeds Acceptable Entry Conditions is detected, ventilate the space and re-test. If atmospheric hazards cannot be controlled through forced air ventilation, then continue ventilation and use in addition use respiratory protection as specified in the Permit. ▪ At any time during the entry should Acceptable Entry Conditions be exceeded, as specified on the Permit then: - Each employee shall leave the space immediately; - The space shall be evaluated to determine how the hazardous atmosphere developed; and - Corrective actions shall be implemented to protect employees from the hazardous atmosphere before any subsequent entry takes place.	
	Exposure to atmospheric contaminants within the space/Exposure to contaminants introduced into the space	▪ Forced air ventilation is required if atmospheric contaminant levels within the space exceed Acceptable Entry Conditions or if the there is a potential for explosive or oxygen deficient atmospheres. ▪ Forced air ventilation shall be directed to ventilate the immediate area(s) where employees will be working within the space and shall continue until **ALL** employees have left the space. ▪ The air supply for the forced air ventilation shall be taken from a clean source and may not increase the hazards in the space. ▪ If operations within the space could create an atmospheric hazards (e.g., welding), then local exhaust ventilation, in conjunction with force air ventilation will be used.	M

	Contact with hazardous chemicals	▪ Clean the space prior to entry. ▪ Complete Lock out Tag out Procedures. ▪ Wear Personal Protective Equipment (PPE) according to the HASP. ▪ Review MSDS/ contaminant fact sheets.	M
	Pedestrians falling into space	▪ Barriers or shields required to prevent objects or non-entry personnel from falling into the space. ▪ Post the attendant and any additional personal to control public. ▪ Post spotters for traffic. ▪ Wear High visibility clothing/ vest.	L
	Lifting/ Back injury	• Site personel will be instructed on proper lifting techniques. • Mechanical devices should be used to reduce manual handling of materials. • Team lifting should be utilized if mechanical devices are not available. ▪ Establish extraction equipment to remove body in emergency	L
4. Entry Permit	Inadequate training and communication.	▪ The Entry Permit must completed by the Supervisor (or other qualified person) and authorized by the Entry Supervisor prior to workers entering the confined space. ▪ Authorized Entrants shall review the completed permit before entering the space. ▪ The Entry Permit may be valid for more than one work shift providing that: - The work is being performed in consecutive shifts; - The nature of the work is the same as on the effective date of the Entry Permit; and - No other conditions or hazards have changed since the effective date of the Entry Permit.	L

	Slips Trips and Falls	• Wear proper footwear. • Move slowly, take your time. • Maintain work areas safe and orderly; unloading areas should be on even terrain; mark or repair possible tripping hazards. • Lower equipment as needed into the space. Do not carry materials or tools while using a ladder. ▪ Secure portable ladder.	L
5. Safety Equipment	Emergencies requiring rescue	▪ Body or chest harnesses, retrieval lines, and mechanical lifting device (if applicable). **Note:** In space with an engulfment hazard, Authorized Entrants should be secured by a safety line in addition to the mechanical rescue device if possible. The safety line shall maintain the Authorized Entrant at a height that precludes engulfment above chest level. ▪ Communication equipment necessary to maintain communication between the Authorized Entrants and the Attendant. ▪ Appropriate lighting equipment needed to perform work and safely enter/exit the space. ▪ Equipment such as ladders required for safe entry and exit from the space. Halyards should be used for securing ladder in confined spaces as necessary. ▪ Emergency rescue equipment as designated in the HASP or other space specific rescue procedures.	L
6. Communications During Entry	Poor communications.	▪ Once entry has been initiated, Authorized Entrants must keep in constant visual or verbal communication with the Attendant. ▪ Communication can be by line-of-sight, walkie-talkie, or video camera. ▪ An emergency communication signal shall be established by the Authorized Entrants and the Attendants. ▪ If there is a breakdown in the communications system being used, Authorized Entrants shall exit the space until communications can be re-established.	L

7. Concluding Entry	Missing personnel, Mechanical upset.	▪ Once the work specified on the permit has been completed, the Authorized Entrants shall exit the space and return it to service. ▪ All tools and equipment shall be picked up and removed from the space. The space shall be cleaned if necessary. ▪ After all Authorized Entrants have exited the space, lines can be put back in service and locks removed from equipment. ▪ Temporary barriers or shields can be removed, and the permanent security measures put back in place. ▪ The Entry Supervisor shall report any hazards encountered to the LHSM. The Entry Supervisor shall also return the canceled permit to the LHSM.	M
8. Sewer And Storm Drain Entry Procedures	Atmospheric contamination and engulfment	In addition to the procedures listed above, the following procedures are required for entry into sewers. ▪ All Authorized Entrants must be trained in the operation of air monitoring equipment required. ▪ Continuous monitoring device(s) are required. When several Authorized Entrants will be in the sewer and working in the same immediate location, at least the lead Entrant shall be equipped with the monitor. ▪ Entrants should be equipped with atmospheric monitoring equipment that sounds an audible alarm, in addition to its visual readout, whenever one of the following conditions are encountered: - Oxygen concentration less than 19.5 percent; - Flammable gas or vapor at 10 percent or more of the lower flammable limit (LFL); or - Hydrogen sulfide or carbon monoxide at or above 5 ppm or 12.5 ppm, respectively, measured as an 8-hour time-weighted average. ▪ Where there is potential for a stratified hazardous atmosphere (e.g., limited air circulation, space more then 4 feet in depth), testing shall be conducted at least every 4 feet vertically to ensure that any hazards are detected. ▪ The Project Manager or Entry Supervisor shall contact the local weather bureau and fire department or other emergency services in the area to obtain information on any sources of surging, flooding, and/or hazardous materials accidentally released to the sewer.	M

		▪ For large bore sewers additional equipment may be required such as waterproof flashlights, boats or rafts, and rope stand-offs for pulling around corners.	

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Equipment to be Used	Training Requirements/Competent or Qualified Personnel name(s)	Inspection Requirements
PPE (Hard Hat, safety glasses, gloves, steel toe work boots, high visibility safety vest, lifeline, PFD, hearing protection) Rescue equipment (tripod/ harness/ retrieval line) Lights Ventilation	**Competent / Qualified Personnel:** Kiernan Brtalik/Technical Professional III **Training requirements:** Confined Space Entry, Hazard Communications, Tool use Site Specific HASP Orientation Toolbox safety meeting Task kick-off meeting	Daily inspection of equipment per manufacturer's instructions. Tag tools that are defective and remove from service. Inspect all PPE, Tools, PPE, and Rescue equipment prior to use

Reviewers and Approvals

(Signatures)

☒ Project Manager Date

☒ Office LHSR Date

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AHA DAILY RENEWAL		
Date:	Weather:	
Changes noted:		
Site Supervisor (Print & Sign):		
Name(s):		
Date:	Weather:	
Changes noted:		
Site Supervisor (Print & Sign):		
Name(s):		
Date:	Weather:	
Changes noted:		
Site Supervisor (Print & Sign):		
Name(s):		

APPENDIX B

RATING CURVES

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Field Data Log Sheet

Station ID ______ **Field Crew** ______ **Date** ______

Event Wet Weather 1 Wet Weather 2 Dry Weather 1 **Time** ______

Datum ______ Latitude 33. Longitude -118.

PHOTOS TAKEN: Upstream Downstream At Sample Intake Banks Equipment Storm Rainfall

ATMOSPHERIC CONDITIONS:

Weather	Sunny	Partly Cloudy	Overcast	Fog		
Last Rain	> 72 Hours	< 72 Hours	Currently Raining			

RUNOFF CHARACTERISTICS:

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	Other________________
Color	None	Yellow	Brown	White	Gray	Other________________
Clarity	Clear	Slightly Cloudy	Opaque	Other________________		
Floatables	None	Trash	Bubbles/Foam	Sheen	Other________________	
Deposits	None	Sediment/Gravel	Fine Particles	Stains	Oily Deposits	Other_________
Vegetation	None	Limited	Normal	Excessive	Other________________	
Water Flow	Flowing	Ponded	Moist	Dry		

CURRENT CONDITIONS - Composite Monitoring Site:

Upon Arrival: Flow meter Running? Y N **Sampler Running?** Y N **Tubing Connected?** Y N

Level (in) ______ **Velocity (fps)** ______ **Flow (cfs)** ______

Total Flow (cf) ______ **# of Missed Samples** ______

Flow Meter Battery Voltage ______ **# of Successful Samples** ______

Sampler Battery Voltage ______ **Approx. Sample Volume (L)** ______

Upon Departure: Flow meter Running? Y N **Sampler Running?** Y N **Tubing Connected?** Y N

CURRENT CONDITIONS - Grab Sample Monitoring Site:

Estimated Flow (Machado Lake Overflow) **Velocity** ______ **Depth** ______ **Width** ______

Freshwater Lens Estimated Thickness ______ **Sample Depth** ______

BOTTLE CHANGE:

Bottle 1	Bottle 2	Bottle 3	Bottle 4
Date	Date	Date	Date
Time	Time	Time	Time
Aliquot	Aliquot	Aliquot	Aliquot
Volume	Volume	Volume	Volume
Bottle ID	Bottle ID	Bottle ID	Bottle ID

POST STORM DATA:

Total Flow Volume (cf)	Sample Aliquots	Total Sample Volume (L)	Sample ID

NOTES/COMMENTS

APPENDIX C

ANALYTICAL METHODS AND REPORTING LIMITS

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Table C-1.
Analytical Methods and Target Reporting Limits

Parameter	Analytical Method	Target Reporting Limit
Total and Dissolved Metals (µg/L)		
Cadmium	USEPA 6010A/6020/200.8/1640	0.01
Chromium	USEPA 6010A/6020/200.8/1640	0.1
Copper	USEPA 6010A/6020/200.8/1640	0.01
Lead	USEPA 6010A/6020/200.8/1640	0.01
Mercury	USEPA 7470A/245.7/1631	0.0002
Zinc	USEPA 6010A/6020/200.8/1640	0.10
General Chemistry		
Total Suspended Solids (mg/L)	USEPA 160.2 / SM 2540 D	0.5
Particulate Organic Carbon (mg/L)	9060 Modified/Lloyd Kahn with filtrate	0.1
Particle Size Determination (%)	Laser diffraction (ASTM D4464M) or SSC (ASTM 3977)	0.1
Turbidity (NTU)	Per laboratory	1.0
Organochlorine Pesticides (ng/L)—High Resolution Analytical Method		
2,4’-DDD	USEPA 1699	0.50
2,4’-DDE	USEPA 1699	0.50
2,4’-DDT	USEPA 1699	0.50
4,4’-DDD	USEPA 1699	0.50
4,4’-DDE	USEPA 1699	0.50
4,4’-DDT	USEPA 1699	0.50
4,4'-DDMU	USEPA 1699	0.50
PCB Congeners (ng/L)—High-Resolution Analytical Method		
CL1-PCB-1	USEPA 1668B	0.001
CL1-PCB-2	USEPA 1668B	0.001
CL1-PCB-3	USEPA 1668B	0.001
CL2-PCB-4	USEPA 1668B	0.001
CL2-PCB-5	USEPA 1668B	0.001
CL2-PCB-6	USEPA 1668B	0.001
CL2-PCB-7	USEPA 1668B	0.001
CL2-PCB-8	USEPA 1668B	0.001
CL2-PCB-9	USEPA 1668B	0.001
CL2-PCB-10	USEPA 1668B	0.001
CL2-PCB-11	USEPA 1668B	0.001
CL2-PCB-12	USEPA 1668B	0.001
CL2-PCB-13	USEPA 1668B	0.001
CL2-PCB-14	USEPA 1668B	0.001
CL2-PCB-15	USEPA 1668B	0.001
CL3-PCB-16	USEPA 1668B	0.001
CL3-PCB-17	USEPA 1668B	0.001
CL3-PCB-18	USEPA 1668B	0.001
CL3-PCB-19	USEPA 1668B	0.001
CL3-PCB-20	USEPA 1668B	0.001

Table C-1.
Analytical Methods and Target Reporting Limits (Cont.)

Parameter	Analytical Method	Target Reporting Limit
CL3-PCB-21	USEPA 1668B	0.001
CL3-PCB-22	USEPA 1668B	0.001
CL3-PCB-23	USEPA 1668B	0.001
CL3-PCB-24	USEPA 1668B	0.001
CL3-PCB-25	USEPA 1668B	0.001
CL3-PCB-26	USEPA 1668B	0.001
CL3-PCB-27	USEPA 1668B	0.001
CL3-PCB-28	USEPA 1668B	0.001
CL3-PCB-29	USEPA 1668B	0.001
CL3-PCB-30	USEPA 1668B	0.001
CL3-PCB-31	USEPA 1668B	0.001
CL3-PCB-32	USEPA 1668B	0.001
CL3-PCB-33	USEPA 1668B	0.001
CL3-PCB-34	USEPA 1668B	0.001
CL3-PCB-35	USEPA 1668B	0.001
CL3-PCB-36	USEPA 1668B	0.001
CL3-PCB-37	USEPA 1668B	0.001
CL3-PCB-38	USEPA 1668B	0.001
CL3-PCB-39	USEPA 1668B	0.001
CL4-PCB-40	USEPA 1668B	0.001
CL4-PCB-41	USEPA 1668B	0.001
CL4-PCB-42	USEPA 1668B	0.001
CL4-PCB-43	USEPA 1668B	0.001
CL4-PCB-44	USEPA 1668B	0.001
CL4-PCB-45	USEPA 1668B	0.001
CL4-PCB-46	USEPA 1668B	0.001
CL4-PCB-47	USEPA 1668B	0.001
CL4-PCB-48	USEPA 1668B	0.001
CL4-PCB-49	USEPA 1668B	0.001
CL4-PCB-50	USEPA 1668B	0.001
CL4-PCB-51	USEPA 1668B	0.001
CL4-PCB-52	USEPA 1668B	0.001
CL4-PCB-53	USEPA 1668B	0.001
CL4-PCB-54	USEPA 1668B	0.001
CL4-PCB-55	USEPA 1668B	0.001
CL4-PCB-56	USEPA 1668B	0.001
CL4-PCB-57	USEPA 1668B	0.001
CL4-PCB-58	USEPA 1668B	0.001
CL4-PCB-59	USEPA 1668B	0.001
CL4-PCB-60	USEPA 1668B	0.001
CL4-PCB-61	USEPA 1668B	0.001
CL4-PCB-62	USEPA 1668B	0.001

Table C-1.
Analytical Methods and Target Reporting Limits (Cont.)

Parameter	Analytical Method	Target Reporting Limit
CL4-PCB-63	USEPA 1668B	0.001
CL4-PCB-64	USEPA 1668B	0.001
CL4-PCB-65	USEPA 1668B	0.001
CL4-PCB-66	USEPA 1668B	0.001
CL4-PCB-67	USEPA 1668B	0.001
CL4-PCB-68	USEPA 1668B	0.001
CL4-PCB-69	USEPA 1668B	0.001
CL4-PCB-70	USEPA 1668B	0.001
CL4-PCB-71	USEPA 1668B	0.001
CL4-PCB-72	USEPA 1668B	0.001
CL4-PCB-73	USEPA 1668B	0.001
CL4-PCB-74	USEPA 1668B	0.001
CL4-PCB-75	USEPA 1668B	0.001
CL4-PCB-76	USEPA 1668B	0.001
CL4-PCB-77	USEPA 1668B	0.001
CL4-PCB-78	USEPA 1668B	0.001
CL4-PCB-79	USEPA 1668B	0.001
CL4-PCB-80	USEPA 1668B	0.001
CL4-PCB-81	USEPA 1668B	0.001
CL5-PCB-82	USEPA 1668B	0.001
CL5-PCB-83	USEPA 1668B	0.001
CL5-PCB-84	USEPA 1668B	0.001
CL5-PCB-85	USEPA 1668B	0.001
CL5-PCB-86	USEPA 1668B	0.001
CL5-PCB-87	USEPA 1668B	0.001
CL5-PCB-88	USEPA 1668B	0.001
CL5-PCB-89	USEPA 1668B	0.001
CL5-PCB-90	USEPA 1668B	0.001
CL5-PCB-91	USEPA 1668B	0.001
CL5-PCB-92	USEPA 1668B	0.001
CL5-PCB-93	USEPA 1668B	0.001
CL5-PCB-94	USEPA 1668B	0.001
CL5-PCB-95	USEPA 1668B	0.001
CL5-PCB-96	USEPA 1668B	0.001
CL5-PCB-97	USEPA 1668B	0.001
CL5-PCB-98	USEPA 1668B	0.001
CL5-PCB-99	USEPA 1668B	0.001
CL5-PCB-100	USEPA 1668B	0.001
CL5-PCB-101	USEPA 1668B	0.001
CL5-PCB-102	USEPA 1668B	0.001
CL5-PCB-103	USEPA 1668B	0.001
CL5-PCB-104	USEPA 1668B	0.001
CL5-PCB-105	USEPA 1668B	0.001

Table C-1.
Analytical Methods and Target Reporting Limits (Cont.)

Parameter	Analytical Method	Target Reporting Limit
CL5-PCB-106	USEPA 1668B	0.001
CL5-PCB-107	USEPA 1668B	0.001
CL5-PCB-108	USEPA 1668B	0.001
CL5-PCB-109	USEPA 1668B	0.001
CL5-PCB-110	USEPA 1668B	0.001
CL5-PCB-111	USEPA 1668B	0.001
CL5-PCB-112	USEPA 1668B	0.001
CL5-PCB-113	USEPA 1668B	0.001
CL5-PCB-114	USEPA 1668B	0.001
CL5-PCB-115	USEPA 1668B	0.001
CL5-PCB-116	USEPA 1668B	0.001
CL5-PCB-117	USEPA 1668B	0.001
CL5-PCB-118	USEPA 1668B	0.001
CL5-PCB-119	USEPA 1668B	0.001
CL5-PCB-120	USEPA 1668B	0.001
CL5-PCB-121	USEPA 1668B	0.001
CL5-PCB-122	USEPA 1668B	0.001
CL5-PCB-123	USEPA 1668B	0.001
CL5-PCB-124	USEPA 1668B	0.001
CL5-PCB-125	USEPA 1668B	0.001
CL5-PCB-126	USEPA 1668B	0.001
CL5-PCB-127	USEPA 1668B	0.001
CL6-PCB-128	USEPA 1668B	0.001
CL6-PCB-129	USEPA 1668B	0.001
CL6-PCB-130	USEPA 1668B	0.001
CL6-PCB-131	USEPA 1668B	0.001
CL6-PCB-132	USEPA 1668B	0.001
CL6-PCB-133	USEPA 1668B	0.001
CL6-PCB-134	USEPA 1668B	0.001
CL6-PCB-135	USEPA 1668B	0.001
CL6-PCB-136	USEPA 1668B	0.001
CL6-PCB-137	USEPA 1668B	0.001
CL6-PCB-138	USEPA 1668B	0.001
CL6-PCB-139	USEPA 1668B	0.001
CL6-PCB-140	USEPA 1668B	0.001
CL6-PCB-141	USEPA 1668B	0.001
CL6-PCB-142	USEPA 1668B	0.001
CL6-PCB-143	USEPA 1668B	0.001
CL6-PCB-144	USEPA 1668B	0.001
CL6-PCB-145	USEPA 1668B	0.001
CL6-PCB-146	USEPA 1668B	0.001
CL6-PCB-147	USEPA 1668B	0.001
CL6-PCB-148	USEPA 1668B	0.001

**Table C-1.
Analytical Methods and Target Reporting Limits (Cont.)**

Parameter	Analytical Method	Target Reporting Limit
CL6-PCB-149	USEPA 1668B	0.001
CL6-PCB-150	USEPA 1668B	0.001
CL6-PCB-151	USEPA 1668B	0.001
CL6-PCB-152	USEPA 1668B	0.001
CL6-PCB-153	USEPA 1668B	0.001
CL6-PCB-154	USEPA 1668B	0.001
CL6-PCB-155	USEPA 1668B	0.001
CL6-PCB-156	USEPA 1668B	0.001
CL6-PCB-157	USEPA 1668B	0.001
CL6-PCB-158	USEPA 1668B	0.001
CL6-PCB-159	USEPA 1668B	0.001
CL6-PCB-160	USEPA 1668B	0.001
CL6-PCB-161	USEPA 1668B	0.001
CL6-PCB-162	USEPA 1668B	0.001
CL6-PCB-163	USEPA 1668B	0.001
CL6-PCB-164	USEPA 1668B	0.001
CL6-PCB-165	USEPA 1668B	0.001
CL6-PCB-166	USEPA 1668B	0.001
CL6-PCB-167	USEPA 1668B	0.001
CL6-PCB-168	USEPA 1668B	0.001
CL6-PCB-169	USEPA 1668B	0.001
CL7-PCB-170	USEPA 1668B	0.001
CL7-PCB-171	USEPA 1668B	0.001
CL7-PCB-172	USEPA 1668B	0.001
CL7-PCB-173	USEPA 1668B	0.001
CL7-PCB-174	USEPA 1668B	0.001
CL7-PCB-175	USEPA 1668B	0.001
CL7-PCB-176	USEPA 1668B	0.001
CL7-PCB-177	USEPA 1668B	0.001
CL7-PCB-178	USEPA 1668B	0.001
CL7-PCB-179	USEPA 1668B	0.001
CL7-PCB-180	USEPA 1668B	0.001
CL7-PCB-181	USEPA 1668B	0.001
CL7-PCB-182	USEPA 1668B	0.001
CL7-PCB-183	USEPA 1668B	0.001
CL7-PCB-184	USEPA 1668B	0.001
CL7-PCB-185	USEPA 1668B	0.001
CL7-PCB-186	USEPA 1668B	0.001
CL7-PCB-187	USEPA 1668B	0.001
CL7-PCB-188	USEPA 1668B	0.001
CL7-PCB-189	USEPA 1668B	0.001
CL7-PCB-190	USEPA 1668B	0.001
CL7-PCB-191	USEPA 1668B	0.001

Table C-1.
Analytical Methods and Target Reporting Limits (Cont.)

Parameter	Analytical Method	Target Reporting Limit
CL7-PCB-192	USEPA 1668B	0.001
CL7-PCB-193	USEPA 1668B	0.001
CL8-PCB-194	USEPA 1668B	0.001
CL8-PCB-195	USEPA 1668B	0.001
CL8-PCB-196	USEPA 1668B	0.001
CL8-PCB-197	USEPA 1668B	0.001
CL8-PCB-198	USEPA 1668B	0.001
CL8-PCB-199	USEPA 1668B	0.001
CL8-PCB-200	USEPA 1668B	0.001
CL8-PCB-201	USEPA 1668B	0.001
CL8-PCB-202	USEPA 1668B	0.001
CL8-PCB-203	USEPA 1668B	0.001
CL8-PCB-204	USEPA 1668B	0.001
CL8-PCB-205	USEPA 1668B	0.001
CL9-PCB-206	USEPA 1668B	0.001
CL9-PCB-207	USEPA 1668B	0.001
CL9-PCB-208	USEPA 1668B	0.001
CL10-PCB-209	USEPA 1668B	0.001

Notes:
µg/L - micrograms per liter
% - percent
ASTM - ASTM International
DDD - dichlorodiphenyldichloroethane;
DDE - dichlorodiphenyldichloroethylene
DDMU - p,p'-2,2-bis(chlorophenyl)-1-chloroethylene
DDT - dichlorodiphenyltrichloroethane
mg/L - milligrams per liter
ng/L - nanograms per liter
NTU - nephelometric turbidity units
PCB - polychlorinated biphenyl
SSC - suspended sediment concentration
USEPA - United States Environmental Protection Agency
SSC - suspended sediment concentration

APPENDIX B

RATING CURVES

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APPENDIX B.
RATING CURVES

Figure B-1. DC Rating Curve

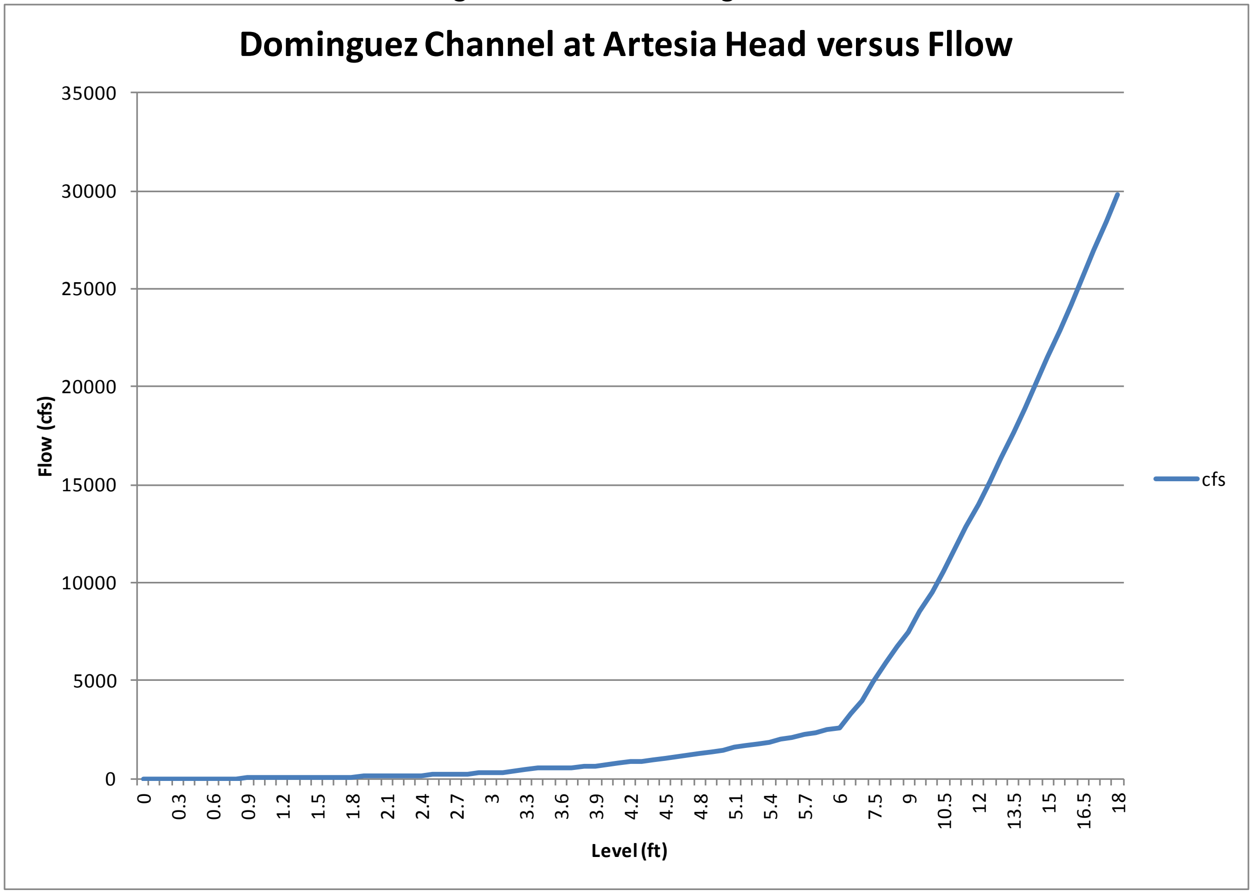

Figure B-2. LAR Rating Curve

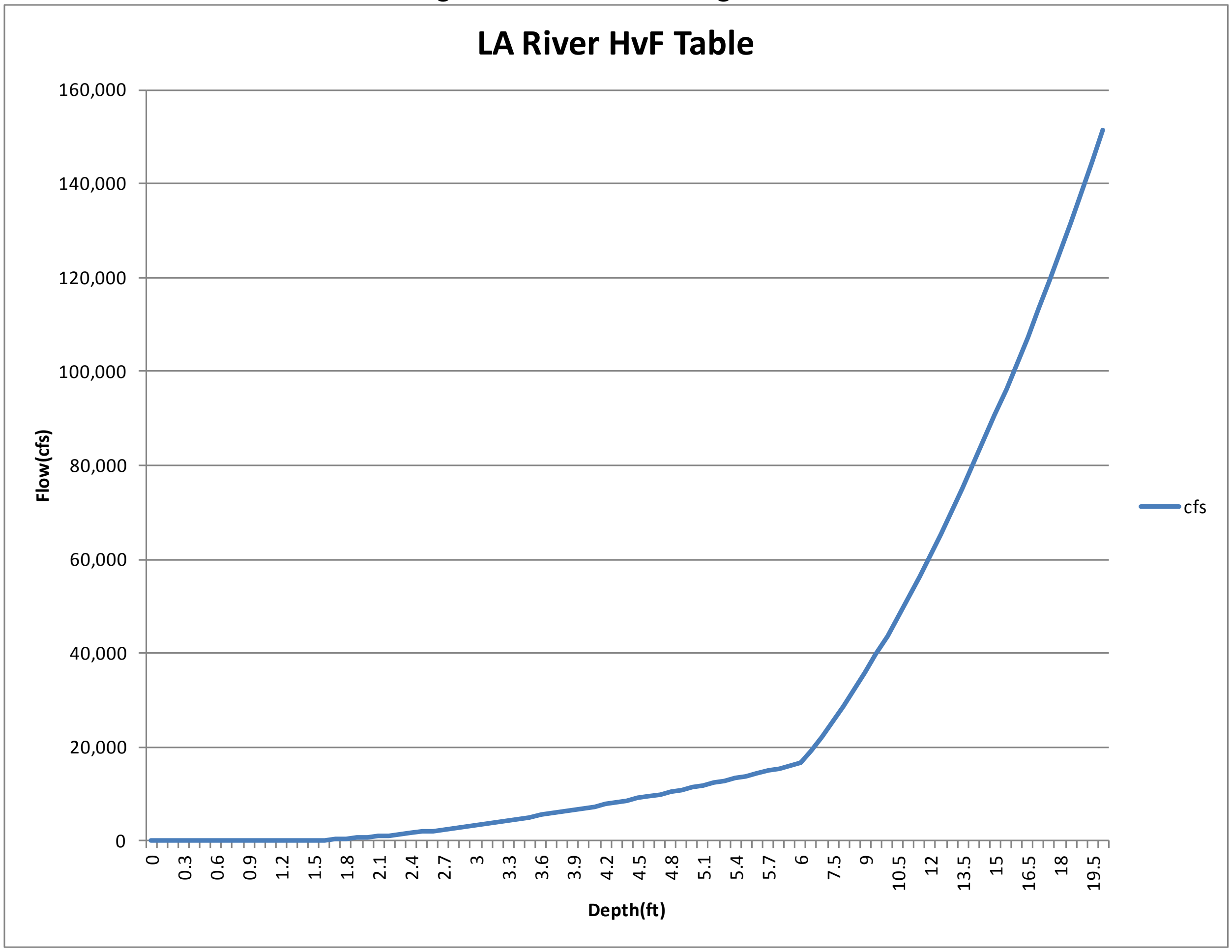

Table B-1. DC Head Versus Flow Table

Stage (ft)	Flow (cfs)
0	0
0.1	1
0.2	2
0.3	4
0.4	7
0.5	10
0.6	13
0.7	17
0.8	22
0.9	27
1	33
1.1	40
1.2	47
1.3	54
1.4	63
1.5	71
1.6	81
1.7	91.5
1.8	102
1.9	114
2	126
2.1	139.5
2.2	153
2.3	168
2.4	183
2.5	199
2.6	215
2.7	233
2.8	251
2.9	271
3	291
3.1	348
3.2	405
3.3	467.5
3.4	530
3.5	545
3.6	560
3.7	593
3.8	626
3.9	672
4	718
4.1	782.6
4.2	847.2
4.3	911.8

Stage (ft)	Flow (cfs)
4.4	976.4
4.5	1041
4.6	1127.4
4.7	1213.8
4.8	1300.2
4.9	1386.6
5	1473
5.1	1577.6
5.2	1682.2
5.3	1786.8
5.4	1891.4
5.5	1996
5.6	2116.8
5.7	2237.6
5.8	2358.4
5.9	2479.2
6	2600
6.5	3306
7	4012
7.5	4985.5
8	5959
8.5	6730.5
9	7502
9.5	8509
10	9516
10.5	10597
11	11678
11.5	12824.5
12	13971
12.5	15175.5
13	16380
13.5	17636.5
14	18893
14.5	20197
15	21501
15.5	22846.5
16	24192
16.5	25577
17	26962
17.5	28381.5
18	29801

Table B-2. LAR Head Versus Flow Table

Stage (ft)	Flow (cfs)
0	0
0.1	0.37
0.2	0.73
0.3	7
0.4	13.3
0.5	19.6
0.6	25.9
0.7	32.1
0.8	38.4
0.9	44.7
1	51
1.1	79
1.2	104.9
1.3	130.8
1.4	155.4
1.5	180
1.6	302
1.7	424
1.8	546
1.9	668
2	790
2.1	1020
2.2	1250
2.3	1480
2.4	1710
2.5	1940
2.6	2238
2.7	2536
2.8	2834
2.9	3132
3	3430
3.1	3772
3.2	4114
3.3	4456
3.4	4798
3.5	5140
3.6	5512
3.7	5884
3.8	6256
3.9	6628
4	7000
4.1	7420
4.2	7840
4.3	8260

Stage (ft)	Flow (cfs)
4.4	8680
4.5	9100
4.6	9570
4.7	10040
4.8	10510
4.9	10980
5	11450
5.1	11940
5.2	12430
5.3	12920
5.4	13410
5.5	13900
5.6	14436
5.7	14972
5.8	15508
5.9	16044
6	16580
6.5	19380
7	22280
7.5	25400
8	28700
8.5	32200
9	35900
9.5	39800
10	43800
10.5	47900
11	52100
11.5	56454
12	60950
12.5	65552.6
13	70310.3
13.5	75200
14	80227.7
14.5	85393.4
15	90697.1
15.5	96138.8
16	101718.5
16.5	107436.2
17	113291.9
17.5	119285.6
18	125417.3
18.5	131687
19	138094.7
19.5	144640.4
20	151324.1

APPENDIX C

QUALITY ASSURANCE AND QUALITY CONTROL ASSESSMENT

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APPENDIX C.
QUALITY ASSURANCE AND QUALITY CONTROL RESULTS

1.0 INTRODUCTION

This appendix presents an assessment of the quality assurance (QA) and quality control (QC) activities that were undertaken to meet the requirements of the PQAPP and SAP.

2.0 CHEMISTRY QA/QC

Per the scope of work, QA/QC of analytical chemistry data was performed by Anchor QEA.

3.0 FIELD QA/QC

The results of field QA/QC activities undertaken are presented in this section.

3.1 Equipment Blanks

Equipment blanks were performed twice during this special study. During the first equipment blank, 19 L borosilicate bottles, silicone bottle stoppers, Teflon tubing, silicone tubing, and stainless steel intake strainers were cleaned by Physis. During the second equipment blank, 19 L borosilicate bottles and silicone stoppers were cleaned by Physis.

Physis and Vista conducted analysis of blank water that was rinsed through at least 10% of cleaned equipment each blanking. Blank samples were not conducted for turbidity, TSS, grain size, or POC by Calscience due to the low likelihood of these analytes being detected.

Table 1 to Table 3 present the results of the blanking analysis. Anchor QEA reviewed the results of equipment blanking and considered them acceptable[1].

Table C-1.
Bottle Blank 1

Total Mercury (ng/L)				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**
Mercury	ND	0.5	1	
Total Metals (µg/L)				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**
Aluminum	ND	1.65	8.25	
Antimony	ND	0.03	0.15	
Arsenic	ND	0.09	0.3	
Barium	ND	0.25	0.5	

[1] Email communication from Joy Dunay, Anchor QEA, to Tommy Wells, Amec Foster Wheeler, dated February 11, 2014.

Table C-1.
Bottle Blank 1 (Cont.)

Beryllium	ND	0.02	0.1	
Cadmium	ND	0.005	0.01	
Chromium	ND	0.01	0.05	
Cobalt	ND	0.01	0.05	
Copper	ND	0.005	0.01	
Iron	ND	1.13	5.65	
Lead	ND	0.005	0.01	
Manganese	ND	0.005	0.01	
Molybdenum	ND	0.02	0.1	
Nickel	ND	0.01	0.02	
Selenium	ND	0.02	0.1	
Silver	ND	0.01	0.02	
Strontium	ND	0.03	0.15	
Thallium	ND	0.01	0.05	
Tin	ND	0.06	0.3	
Titanium	ND	0.08	0.4	
Vanadium	ND	0.03	0.15	
Zinc	ND	0.02	0.1	
DDT (pg/L)				
Analyte	**Result**	**DL**	**EMPC**	**Qualifiers**
2,4'-DDE	ND	0.272		
4,4'-DDE	1.04			J, B
2,4'-DDD	ND	0.381		
2,4'-DDT	ND	0.649		
4,4'-DDD	ND	0.49		
4,4'-DDT	ND	0.764		
4,4'-DDMU	ND	31.8		D
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
Total PCB	30.6			B
PCB-1	0.732			J
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-2	0.314			J
PCB-3	0.445			J
PCB-4/10	ND	1.72		
PCB-5/8	ND	2.52		
PCB-6	ND	1.54		
PCB-7/9	ND	1.52		
PCB-11	6.94			
PCB-12/13	ND	1.51		
PCB-14	ND	1.26		
PCB-15	ND	1.47		
PCB-16/32	1.11			J, B

Table C-1.
Bottle Blank 1 (Cont.)

PCB-17	ND		0.574	
PCB-18	1.93			B
PCB-19	ND	0.311		
PCB-20/21/33	ND		0.989	
PCB-22	ND	0.387		
PCB-23	ND	0.38		
PCB-24/27	ND	0.222		
PCB-25	ND	0.417		
PCB-26	ND	0.434		
PCB-28	1.13			
PCB-29	ND	0.416		
PCB-30	ND	0.207		
PCB-31	1.24			B
PCB-34	ND	0.423		
PCB-35	ND	0.381		
PCB-36	ND	0.374		
PCB-37	ND	0.406		
PCB-38	ND	0.357		
PCB-39	ND	0.361		
PCB-40	0.578			J
PCB-41/64/71/72	1.31			J, B
PCB-42/59	0.598			J, B
PCB-43/49	1.17			J
PCB-44	1.87	B		
PCB-45	ND	0.471		
PCB-46	ND	0.522		
PCB-47	1.55			B
PCB-48/75	ND	0.333		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-50	ND	0.352		
PCB-51	ND	0.39		
PCB-52/69	1.73			J, B
PCB-53	0.41			J
PCB-54	ND	0.265		
PCB-55	ND	0.284		
PCB-56/60	0.551			J, B
PCB-57	ND	0.249		
PCB-58	ND	0.264		
PCB-61/70	1.14			J, B
PCB-62	ND	0.335		
PCB-63	ND	0.255		
PCB-65	ND	0.333		
PCB-67	ND	0.276		

amec foster wheeler

Table C-1.
Bottle Blank 1 (Cont.)

PCB-68	0.386			J, B
PCB-73	ND	0.314		
PCB-74	0.386			J
PCB-76/66	ND		0.621	
PCB-77	ND	0.262		
PCB-78	ND	0.303		
PCB-79	ND	0.302		
PCB-80	ND	0.253		
PCB-81	ND	0.264		
PCB-82	ND	0.587		
PCB-83	ND	0.407		
PCB-84/92	ND		0.604	
PCB-85/116	ND	0.474		
PCB-86	ND	0.629		
PCB-87/117/125	ND	0.413		
PCB-88/91	ND	0.525		
PCB-89	ND	0.59		
PCB-90/101	0.922	J		
PCB-93	ND	0.512		
PCB-94	ND	0.516		
PCB-95/98/102	1.02			J, B
PCB-96	ND	0.438		
PCB-97	ND	0.508		
PCB-99	ND	0.478		
PCB-100	ND	0.473		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-103	ND	0.508		
PCB-104	ND	0.371		
PCB-105	ND	0.323		
PCB-106/118	ND	0.348		
PCB-107/109	ND	0.341		
PCB-108/112	ND	0.491		
PCB-110	0.754			J
PCB-111/115	ND	0.366		
PCB-113	ND	0.42		
PCB-114	ND	0.343		
PCB-119	ND	0.365		
PCB-120	ND	0.357		
PCB-121	ND	0.346		
PCB-122	ND	0.381		
PCB-123	ND	0.365		
PCB-124	ND	0.326		
PCB-126	ND	0.387		

Table C-1.
Bottle Blank 1 (Cont.)

PCB-127	ND	0.363		
PCB-128/162	ND	0.265		
PCB-129	ND	0.325		
PCB-130	ND	0.324		
PCB-131	ND	0.33		
PCB-132/161	ND		0.236	
PCB-133/142	ND	0.315		
PCB-134/143	ND	0.31		
PCB-135	ND	0.573		
PCB-136	ND	0.408		
PCB-137	ND	0.278		
PCB-138/163/164	0.514			J
PCB-139/149	0.934			J, B
PCB-140	ND	0.569		
PCB-141	ND	0.298		
PCB-144	ND	0.535		
PCB-145	ND	0.369		
PCB-146/165	ND	0.241		
PCB-147	ND	0.521		
PCB-148	ND	0.518		
PCB-150	ND	0.379		
PCB-151	ND	0.556		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-152	ND	0.371		
PCB-153	0.428			J, B
PCB-154	ND	0.481		
PCB-155	ND	0.353		
PCB-156	ND	0.191		
PCB-157	ND	0.218		
PCB-158/160	ND	0.221		
PCB-159	ND	0.241		
PCB-166	ND	0.233		
PCB-167	ND	0.226		
PCB-168	ND	0.212		
PCB-169	ND	0.24		
PCB-170	ND	0.261		
PCB-171	ND	0.245		
PCB-172	ND	0.273		
PCB-173	ND	0.291		
PCB-174	ND	0.243		
PCB-175	ND	0.306		
PCB-176	ND	0.222		
PCB-177	ND	0.262		

Table C-1.
Bottle Blank 1 (Cont.)

PCB-178	ND	0.324		
PCB-179	ND	0.23		
PCB-180	0.476			J
PCB-181	ND	0.236		
PCB-182/187	ND	0.284		
PCB-183	ND	0.276		
PCB-184	ND	0.239		
PCB-185	ND	0.244		
PCB-186	ND	0.223		
PCB-188	ND	0.205		
PCB-189	ND	0.199		
PCB-190	ND	0.187		
PCB-191	ND	0.199		
PCB-192	ND	0.209		
PCB-193	ND	0.194		
PCB-194	ND	0.505		
PCB-195	ND	0.507		
PCB-196/203	ND	0.508		
PCB-197	ND	0.397		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-198	ND	0.57		
PCB-199	ND	0.53		
PCB-200	ND	0.412		
PCB-201	ND	0.388		
PCB-202	ND	0.394		
PCB-204	ND	0.418		
PCB-205	ND	0.42		
PCB-206	ND	0.798		
PCB-207	ND	0.313		
PCB-208	ND	0.302		
PCB-209	ND	0.58		

Notes:
J = The amount detected is below the low calibration limit.
B = Analyte also detected in laboratory blank sample.
D = Dilution.
EMPC = Estimated maximum possible concentration.
MDL = Method detection limit.
RL = Reporting limit.
ND = Analyte not detected above MDL.

Table C-2.
Tubing and Stopper Blank

Total Mercury (ng/L)				
Analyte	**Results**	**MDL**	**RL**	**Qualifiers**
Mercury	ND	0.5	1	
Total Metals (µg/L)				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**
Aluminum	ND	1.65	8.25	
Antimony	ND	0.03	0.15	
Arsenic	ND	0.09	0.3	
Barium	ND	0.25	0.5	
Beryllium	ND	0.02	0.1	
Cadmium	ND	0.005	0.01	
Chromium	ND	0.01	0.05	
Cobalt	ND	0.01	0.05	
Copper	ND	0.005	0.01	
Iron	ND	1.13	5.65	
Lead	ND	0.005	0.01	
Manganese	ND	0.005	0.01	
Molybdenum	ND	0.02	0.1	
Nickel	ND	0.01	0.02	
Selenium	ND	0.02	0.1	
Silver	ND	0.01	0.02	
Strontium	ND	0.03	0.15	
Thallium	ND	0.01	0.05	
Tin	ND	0.06	0.3	
Titanium	ND	0.08	0.4	
Vanadium	ND	0.03	0.15	
Zinc	ND	0.02	0.1	
DDT (pg/L)				
Analyte	**Result**	**DL**	**EMPC**	**Qualifiers**
2,4'-DDE	ND	0.279		
4,4'-DDE	0.959			J, B
2,4'-DDD	ND	0.311		
2,4'-DDT	ND	0.429		
4,4'-DDD	ND	0.324		
4,4'-DDT	ND	0.489		
4,4'-DDMU	ND	21.7		D
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
Total PCB	18.9			B
PCB-1	0.33			J
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-2	ND	0.328		

Table C-2.
Tubing and Stopper Blank (Cont.)

PCB-3	ND	0.32		
PCB-4/10	ND	1.82		
PCB-5/8	ND	1.66		
PCB-6	ND	1.67		
PCB-7/9	ND	1.65		
PCB-11	5.53			
PCB-12/13	ND	1.64		
PCB-14	ND	1.38		
PCB-15	ND	1.61		
PCB-16/32	0.85			J, B
PCB-17	ND	0.325		
PCB-18	1.28			B
PCB-19	ND	0.331		
PCB-20/21/33	ND		0.841	
PCB-22	ND	0.399		
PCB-23	ND	0.392		
PCB-24/27	ND	0.245		
PCB-25	ND	0.43		
PCB-26	ND	0.448		
PCB-28	ND		0.697	
PCB-29	ND	0.429		
PCB-30	ND	0.22		
PCB-31	ND		0.712	
PCB-34	ND	0.436		
PCB-35	ND	0.329		
PCB-36	ND	0.323		
PCB-37	ND	0.351		
PCB-38	ND	0.308		
PCB-39	ND	0.312		
PCB-40	ND	0.521		
PCB-41/64/71/72	1.17			J, B
PCB-42/59	0.543			J, B
PCB-43/49	ND		0.807	
PCB-44	1.64			B
PCB-45	ND	0.423		
PCB-46	ND	0.468		
PCB-47	1.04	B		
PCB-48/75	ND	0.304		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-50	ND	0.338		
PCB-51	ND	0.35		
PCB-52/69	1.38			J, B

**Table C-2.
Tubing and Stopper Blank (Cont.)**

PCB-53	ND	0.346		
PCB-54	ND	0.255		
PCB-55	ND	0.264		
PCB-56/60	0.605			J, B
PCB-57	ND	0.249		
PCB-58	ND	0.263		
PCB-61/70	0.98			J, B
PCB-62	ND	0.306		
PCB-63	ND	0.255		
PCB-65	ND	0.304		
PCB-67	ND	0.275		
PCB-68	ND	0.275		
PCB-73	ND	0.282		
PCB-74	0.383			J
PCB-76/66	0.684			J, B
PCB-77	ND	0.244		
PCB-78	ND	0.283		
PCB-79	ND	0.282		
PCB-80	ND	0.236		
PCB-81	ND	0.246		
PCB-82	ND	0.681		
PCB-83	ND	0.446		
PCB-84/92	ND	0.611		
PCB-85/116	ND	0.519		
PCB-86	ND	0.688		
PCB-87/117/125	ND	0.452		
PCB-88/91	ND	0.573		
PCB-89	ND	0.628		
PCB-90/101	1.01			J
PCB-93	ND	0.559		
PCB-94	ND	0.564		
PCB-95/98/102	0.957			J, B
PCB-96	ND	0.481		
PCB-97	ND	0.556		
PCB-99	ND	0.509		
PCB-100	ND	0.52		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-103	ND	0.559		
PCB-104	ND	0.408		
PCB-105	ND	0.399		
PCB-106/118	ND	0.41		
PCB-107/109	ND	0.395		

**Table C-2.
Tubing and Stopper Blank (Cont.)**

PCB-108/112	ND	0.537		
PCB-110	0.507			J
PCB-111/115	ND	0.401		
PCB-113	ND	0.447		
PCB-114	ND	0.383		
PCB-119	ND	0.4		
PCB-120	ND	0.391		
PCB-121	ND	0.378		
PCB-122	ND	0.426		
PCB-123	ND	0.424		
PCB-124	ND	0.378		
PCB-126	ND	0.414		
PCB-127	ND	0.414		
PCB-128/162	ND	0.312		
PCB-129	ND	0.407		
PCB-130	ND	0.398		
PCB-131	ND	0.393		
PCB-132/161	ND	0.304		
PCB-133/142	ND	0.375		
PCB-134/143	ND	0.369		
PCB-135	ND	0.613		
PCB-136	ND	0.436		
PCB-137	ND	0.341		
PCB-138/163/164	ND	0.287		
PCB-139/149	ND		0.569	
PCB-140	ND	0.609		
PCB-141	ND	0.367		
PCB-144	ND	0.572		
PCB-145	ND	0.395		
PCB-146/165	ND	0.287		
PCB-147	ND	0.557		
PCB-148	ND	0.553		
PCB-150	ND	0.406		
PCB-151	ND	0.594		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-152	ND	0.396		
PCB-153	ND	0.292		
PCB-154	ND	0.515		
PCB-155	ND	0.378		
PCB-156	ND	0.229		
PCB-157	ND	0.273		
PCB-158/160	ND	0.277		

Table C-2.
Tubing and Stopper Blank (Cont.)

PCB-159	ND	0.284		
PCB-166	ND	0.275		
PCB-167	ND	0.269		
PCB-168	ND	0.253		
PCB-169	ND	0.291		
PCB-170	ND	0.267		
PCB-171	ND	0.256		
PCB-172	ND	0.286		
PCB-173	ND	0.305		
PCB-174	ND	0.254		
PCB-175	ND	0.346		
PCB-176	ND	0.252		
PCB-177	ND	0.274		
PCB-178	ND	0.366		
PCB-179	ND	0.26		
PCB-180	ND	0.25		
PCB-181	ND	0.247		
PCB-182/187	ND	0.321		
PCB-183	ND	0.312		
PCB-184	ND	0.27		
PCB-185	ND	0.255		
PCB-186	ND	0.253		
PCB-188	ND	0.232		
PCB-189	ND	0.209		
PCB-190	ND	0.19		
PCB-191	ND	0.208		
PCB-192	ND	0.218		
PCB-193	ND	0.203		
PCB-194	ND	0.494		
PCB-195	ND	0.495		
PCB-196/203	ND	0.498		
PCB-197	ND	0.389		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-198	ND	0.559		
PCB-199	ND	0.52		
PCB-200	ND	0.404		
PCB-201	ND	0.381		
PCB-202	ND	0.387		
PCB-204	ND	0.41		
PCB-205	ND	0.411		
PCB-206	ND	0.682		
PCB-207	ND	0.289		

Table C-2.
Tubing and Stopper Blank (Cont.)

PCB-208	ND	0.279		
PCB-209	ND	0.644		

Notes:
J = The amount detected is below the low calibration limit.
B = Analyte also detected in laboratory blank sample.
D = Dilution.
EMPC = Estimated maximum possible concentration.
MDL = Method detection limit.
RL = Reporting limit.
ND = Analyte not detected above MDL.

Table C-3.
Bottle Blank 2

Total Mercury (ng/L)				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**
Mercury	ND	0.5	1	
Total Metals (µg/L)				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**
Cadmium	ND	0.005	0.01	
Chromium	ND	0.01	0.05	
Copper	ND	0.005	0.01	
Lead	ND	0.005	0.01	
Zinc	ND	0.02	0.1	
DDT (pg/L)				
Analyte	**Result**	**DL**	**EMPC**	**Qualifiers**
2,4'-DDE	ND	0.36		
4,4'-DDE	1.09			J
2,4'-DDD	ND	0.673		
2,4'-DDT	ND	1.57		
4,4'-DDD	ND	0.785		
4,4'-DDT	ND	1.72		
4,4'-DDMU	ND	42.3		D
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
Total PCB	14.8			
PCB-1	0.692			J
PCB-2	ND	0.391		
PCB-3	0.466			J
PCB-4/10	ND	1.52		

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Table C-3.
Bottle Blank 2 (Cont.)

PCB-5/8	ND	1.33		
PCB-6	ND	1.33		
PCB-7/9	ND	1.32		
PCB-11	5.22	B		
PCB-12/13	ND	1.34		
PCB-14	ND	1.12		
PCB-15	ND	1.31		
PCB-16/32	0.675			J, B
PCB-17	ND		0.359	
PCB-18	ND		0.939	
PCB-19	ND	0.202		
PCB-20/21/33	0.753			J, B
PCB-22	0.317			J
PCB-23	ND	0.203		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-24/27	ND	0.137		
PCB-25	ND	0.223		
PCB-26	ND	0.233		
PCB-28	0.815			J, B
PCB-29	ND	0.222		
PCB-30	ND	0.134		
PCB-31	0.896			J, B
PCB-34	ND	0.226		
PCB-35	ND	0.196		
PCB-36	ND	0.192		
PCB-37	ND	0.209		
PCB-38	ND	0.184		
PCB-39	ND	0.185		
PCB-40	ND	0.356		
PCB-41/64/71/72	ND		0.559	
PCB-42/59	ND	0.227		
PCB-43/49	0.547			J
PCB-44	0.817			J
PCB-45	ND	0.299		
PCB-46	ND	0.331		
PCB-47	0.541			J

Table C-3.
Bottle Blank 2 (Cont.)

PCB-48/75	ND	0.207		
PCB-50	ND	0.257		
PCB-51	ND	0.247		
PCB-52/69	0.712			J, B
PCB-53	ND	0.245		
PCB-54	ND	0.194		
PCB-55	ND	0.18		
PCB-56/60	ND	0.191		
PCB-57	ND	0.171		
PCB-58	ND	0.181		
PCB-61/70	ND		0.375	
PCB-62	ND	0.209		
PCB-63	ND	0.175		
PCB-65	ND	0.208		
PCB-67	ND	0.189		
PCB-68	ND	0.188		
PCB-73	ND	0.2		
PCB-74	0.198			J
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-76/66	0.307			J
PCB-77	ND	0.141		
PCB-78	ND	0.158		
PCB-79	ND	0.192		
PCB-80	ND	0.161		
PCB-81	ND	0.137		
PCB-82	ND	0.593		
PCB-83	ND	0.366		
PCB-84/92	ND	0.501		
PCB-85/116	ND	0.425		
PCB-86	ND	0.565		
PCB-87/117/125	ND	0.371		
PCB-88/91	ND	0.506		
PCB-89	ND	0.516		
PCB-90/101	0.579			J, B
PCB-93	ND	0.494		
PCB-94	ND	0.498		

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**Table C-3.
Bottle Blank 2 (Cont.)**

PCB-95/98/102	0.561			J
PCB-96	ND	0.416		
PCB-97	ND	0.456		
PCB-99	ND	0.418		
PCB-100	ND	0.449		
PCB-103	ND	0.482		
PCB-104	ND	0.352		
PCB-105	ND	0.234		
PCB-106/118	ND	0.326		
PCB-107/109	ND	0.344		
PCB-108/112	ND	0.441		
PCB-110	ND		0.404	
PCB-111/115	ND	0.329		
PCB-113	ND	0.367		
PCB-114	ND	0.228		
PCB-119	ND	0.328		
PCB-120	ND	0.321		
PCB-121	ND	0.334		
PCB-122	ND	0.254		
PCB-123	ND	0.369		
PCB-124	ND	0.329		
PCB-126	ND	0.235		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-127	ND	0.243		
PCB-128/162	ND	0.195		
PCB-129	ND	0.285		
PCB-130	ND	0.274		
PCB-131	ND	0.286		
PCB-132/161	ND	0.221		
PCB-133/142	ND	0.273		
PCB-134/143	ND	0.269		
PCB-135	ND	0.539		
PCB-136	ND	0.384		
PCB-137	ND	0.235		
PCB-138/163/164	0.379			J
PCB-139/149	ND	0.468		

**Table C-3.
Bottle Blank 2 (Cont.)**

PCB-140	ND	0.535		
PCB-141	ND	0.252		
PCB-144	ND	0.503		
PCB-145	ND	0.347		
PCB-146/165	ND	0.209		
PCB-147	ND	0.49		
PCB-148	ND	0.487		
PCB-150	ND	0.357		
PCB-151	ND	0.522		
PCB-152	ND	0.349		
PCB-153	0.334			J
PCB-154	ND	0.453		
PCB-155	ND	0.332		
PCB-156	ND	0.167		
PCB-157	ND	0.181		
PCB-158/160	ND	0.194		
PCB-159	ND	0.177		
PCB-166	ND	0.172		
PCB-167	ND	0.173		
PCB-168	ND	0.184		
PCB-169	ND	0.157		
PCB-170	ND	0.165		
PCB-171	ND	0.176		
PCB-172	ND	0.197		
PCB-173	ND	0.21		
PCB-174	ND	0.175		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-175	ND	0.238		
PCB-176	ND	0.173		
PCB-177	ND	0.189		
PCB-178	ND	0.252		
PCB-179	ND	0.179		
PCB-180	ND	0.172		
PCB-181	ND	0.17		
PCB-182/187	ND	0.221		
PCB-183	ND	0.215		

Table C-3.
Bottle Blank 2 (Cont.)

PCB-184	ND	0.186		
PCB-185	ND	0.176		
PCB-186	ND	0.174		
PCB-188	ND	0.159		
PCB-189	ND	0.112		
PCB-190	ND	0.118		
PCB-191	ND	0.144		
PCB-192	ND	0.151		
PCB-193	ND	0.14		
PCB-194	ND	0.135		
PCB-195	ND	0.135		
PCB-196/203	ND	0.353		
PCB-197	ND	0.276		
PCB-198	ND	0.396		
PCB-199	ND	0.369		
PCB-200	ND	0.286		
PCB-201	ND	0.27		
PCB-202	ND	0.274		
PCB-204	ND	0.291		
PCB-205	ND	0.112		
PCB-206	ND	0.204		
PCB-207	ND	0.133		
PCB-208	ND	0.129		
PCB-209	ND	0.188		

Notes:
J = The amount detected is below the low calibration limit.
B = Analyte also detected in laboratory blank sample.
D = Dilution.
EMPC = Estimated maximum possible concentration.
MDL = Method detection limit.
RL = Reporting limit.
ND = Analyte not detected above MDL.

3.2 Field Blank

A field blank was collected during the dry weather sampling event. The field blank was collected during the dry weather event to minimize the potential atmospheric contamination potential from rainfall. Similar to the equipment blanks, turbidity, TSS, particle size, and POC analysis were not conducted due to the low likelihood of detection. Table 4 presents the results of the field blank. The reported results are similar to the reported equipment blank results and are thus considered acceptable.

Table C-4.
Field Blank

Total Mercury (ng/L)				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**
Mercury	ND	0.5	1	
Dissolved Mercury (ng/L)				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**
Mercury	ND	0.5	1	
Total Metals (µg/L)				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**
Cadmium	ND	0.005	0.01	
Chromium	ND	0.01	0.05	
Copper	ND	0.005	0.01	
Lead	ND	0.005	0.01	
Zinc	ND	0.02	0.1	
Dissolved Metals (µg/L)				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**
Cadmium	ND	0.005	0.01	
Chromium	ND	0.01	0.05	
Copper	ND	0.005	0.01	
Lead	ND	0.005	0.01	
Zinc	ND	0.02	0.1	
DDT (pg/L)				
Analyte	**Result**	**DL**	**EMPC**	**Qualifiers**
2,4'-DDE	ND	0.353		
4,4'-DDE	0.906			J
2,4'-DDD	ND	0.409		
2,4'-DDT	ND	0.659		
4,4'-DDD	ND	0.455		
4,4'-DDT	ND	0.669		
4,4'-DDMU	ND	59.6		D
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
Total PCB	28.3			B
PCB-1	0.84			J
PCB-2	ND	0.432		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-3	0.592			J
PCB-4/10	ND	1.4		
PCB-5/8	ND	1.29		
PCB-6	ND	1.29		
PCB-7/9	ND	1.28		
PCB-11	2.46			B

Table C-4.
Field Blank (Cont.)

PCB-12/13	ND	1.27		
PCB-14	ND	1.06		
PCB-15	ND	1.24		
PCB-16/32	0.449			J, B
PCB-17	0.292			J
PCB-18	0.649			J, B
PCB-19	ND	0.196		
PCB-20/21/33	0.442			J
PCB-22	ND		0.276	
PCB-23	ND	0.247		
PCB-24/27	ND	0.137		
PCB-25	ND	0.271		
PCB-26	ND	0.283		
PCB-28	ND		0.317	
PCB-29	ND	0.271		
PCB-30	ND	0.131		
PCB-31	ND		0.629	
PCB-34	ND	0.275		
PCB-35	ND	0.265		
PCB-36	ND	0.26		
PCB-37	ND	0.282		
PCB-38	ND	0.248		
PCB-39	ND	0.251		
PCB-40	ND	0.288		
PCB-41/64/71/72	ND		0.479	
PCB-42/59	ND	0.184		
PCB-43/49	ND		0.398	
PCB-44	ND		0.551	
PCB-45	ND	0.251		
PCB-46	ND	0.278		
PCB-47	14.9			B
PCB-48/75	ND	0.168		
PCB-50	ND	0.222		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-51	2.89			
PCB-52/69	0.635			J, B
PCB-53	ND	0.205		
PCB-54	ND	0.167		
PCB-55	ND	0.152		
PCB-56/60	0.333			J, B
PCB-57	ND	0.148		
PCB-58	ND	0.156		
PCB-61/70	0.433			J, B

Table C-4.
Field Blank (Cont.)

PCB-62	ND	0.169		
PCB-63	ND	0.151		
PCB-65	ND	0.168		
PCB-67	ND	0.163		
PCB-68	1.95			
PCB-73	ND	0.168		
PCB-74	ND		0.177	
PCB-76/66	0.405			J, B
PCB-77	ND	0.163		
PCB-78	ND	0.174		
PCB-79	ND	0.162		
PCB-80	ND	0.136		
PCB-81	ND	0.151		
PCB-82	ND	0.499		
PCB-83	ND	0.322		
PCB-84/92	ND	0.478		
PCB-85/116	ND	0.375		
PCB-86	ND	0.497		
PCB-87/117/125	ND	0.326		
PCB-88/91	ND	0.467		
PCB-89	ND	0.491		
PCB-90/101	0.387			J
PCB-93	ND	0.455		
PCB-94	ND	0.459		
PCB-95/98/102	ND	0.428		
PCB-96	ND	0.365		
PCB-97	ND	0.402		
PCB-99	ND	0.398		
PCB-100	ND	0.395		
PCB-103	ND	0.424		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-104	ND	0.31		
PCB-105	ND	0.317		
PCB-106/118	0.219			J, B
PCB-107/109	ND	0.29		
PCB-108/112	ND	0.388		
PCB-110	0.353			J
PCB-111/115	ND	0.289		
PCB-113	ND	0.35		
PCB-114	ND	0.288		
PCB-119	ND	0.289		
PCB-120	ND	0.283		
PCB-121	ND	0.308		

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Table C-4.
Field Blank (Cont.)

PCB-122	ND	0.32		
PCB-123	ND	0.311		
PCB-124	ND	0.277		
PCB-126	ND	0.356		
PCB-127	ND	0.362		
PCB-128/162	ND	0.267		
PCB-129	ND	0.312		
PCB-130	ND	0.315		
PCB-131	ND	0.285		
PCB-132/161	ND	0.22		
PCB-133/142	ND	0.272		
PCB-134/143	ND	0.268		
PCB-135	ND	0.553		
PCB-136	ND	0.394		
PCB-137	ND	0.271		
PCB-138/163/164	ND	0.22		
PCB-139/149	ND	0.481		
PCB-140	ND	0.69		
PCB-141	ND	0.29		
PCB-144	ND	0.517		
PCB-145	ND	0.356		
PCB-146/165	ND	0.208		
PCB-147	ND	0.503		
PCB-148	ND	0.5		
PCB-150	ND	0.366		
PCB-151	ND	0.536		
PCB-152	ND	0.358		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-153	ND	0.212		
PCB-154	ND	0.465		
PCB-155	ND	0.341		
PCB-156	ND	0.251		
PCB-157	ND	0.275		
PCB-158/160	ND	0.212		
PCB-159	ND	0.243		
PCB-166	ND	0.235		
PCB-167	ND	0.242		
PCB-168	ND	0.183		
PCB-169	ND	0.306		
PCB-170	ND	0.242		
PCB-171	ND	0.246		
PCB-172	ND	0.274		
PCB-173	ND	0.293		

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Table C-4.
Field Blank (Cont.)

PCB-174	ND	0.244		
PCB-175	ND	0.217		
PCB-176	ND	0.158		
PCB-177	ND	0.263		
PCB-178	ND	0.23		
PCB-179	ND	0.163		
PCB-180	ND	0.24		
PCB-181	ND	0.237		
PCB-182/187	ND	0.201		
PCB-183	ND	0.196		
PCB-184	ND	0.169		
PCB-185	ND	0.245		
PCB-186	ND	0.158		
PCB-188	ND	0.145		
PCB-189	ND	0.162		
PCB-190	ND	0.173		
PCB-191	ND	0.2		
PCB-192	ND	0.21		
PCB-193	ND	0.195		
PCB-194	ND	0.434		
PCB-195	ND	0.435		
PCB-196/203	ND	0.564		
PCB-197	ND	0.441		
PCB-198	ND	0.632		
PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-199	ND	0.588		
PCB-200	ND	0.457		
PCB-201	ND	0.431		
PCB-202	ND	0.438		
PCB-204	ND	0.464		
PCB-205	ND	0.36		
PCB-206	ND	0.483		
PCB-207	ND	0.241		
PCB-208	ND	0.233		
PCB-209	ND	0.503		

Notes:
J = The amount detected is below the low calibration limit.
B = Analyte also detected in laboratory blank sample.
D = Dilution.
EMPC = Estimated maximum possible concentration.
MDL = Method detection limit.
RL = Reporting limit.
ND = Analyte not detected above MDL.

3.3 Field Duplicate

One field duplicate sample was collected during this special study. Table 5 presents the results of the duplicate sample and relative percent difference calculation. A relative percent difference of less than 25% was the acceptance criteria established in the PQAPP. While there are seven exceedances of this criteria, the majority of the results are within the 25% RPD criteria and thus the field duplicate is considered acceptable.

Table C-5.
Field Duplicate and Relative Percent Difference

FWL-STW-G-W1 (Primary)					Relative Percent Difference	FWL-FD-G-W1 (Duplicate)				
Total Mercury (ng/L)						**Total Mercury (ng/L)**				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**		**Analyte**	**Result**	**MDL**	**RL**	**Qualifiers**
Mercury	8.5	0.5	1		**18%**	Mercury	10.2	0.5	1	
Dissolved Mercury (ng/L)						**Dissolved Mercury (ng/L)**				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**		**Analyte**	**Result**	**MDL**	**RL**	**Qualifiers**
Mercury	3	0.5	1		**6%**	Mercury	3.2	0.5	1	
Total Metals (µg/L)						**Total Metals (µg/L)**				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**		**Analyte**	**Result**	**MDL**	**RL**	**Qualifiers**
Cadmium	0.269	0.005	0.01		**2%**	Cadmium	0.274	0.005	0.01	
Chromium	1.93	0.01	0.05		**4%**	Chromium	2.01	0.01	0.05	
Copper	26.922	0.005	0.01		**3%**	Copper	27.691	0.005	0.01	
Lead	8.246	0.005	0.01		**4%**	Lead	8.599	0.005	0.01	
Zinc	165.88	0.02	0.1		**6%**	Zinc	176.55	0.02	0.1	
Dissolved Metals (µg/L)						**Dissolved Metals (µg/L)**				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**		**Analyte**	**Result**	**MDL**	**RL**	**Qualifiers**
Cadmium	0.137	0.005	0.01		**7%**	Cadmium	0.128	0.005	0.01	
Chromium	0.44	0.01	0.05		**31%**	Chromium	0.6	0.01	0.05	
Copper	12.456	0.005	0.01		**9%**	Copper	11.38	0.005	0.01	

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**Table C-5.
Field Duplicate and Relative Percent Difference (Cont.)**

Lead	1.135	0.005	0.01		**7%**	Lead	1.221	0.005	0.01	
Zinc	91.89	0.02	0.1		**5%**	Zinc	96.46	0.02	0.1	
Turbidity (NTU)						**Turbidity (NTU)**				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**		**Analyte**	**Result**	**MDL**	**RL**	**Qualifiers**
Turbidity	24	-	1		**29%**	Turbidity	32	-	1	
TSS (mg/L)						**TSS (mg/L)**				
Analyte	Result	MDL	RL	Qualifiers		**Analyte**	**Result**	**MDL**	**RL**	**Qualifiers**
TSS	36	-	1		**3%**	TSS	37	-	1	
Particle Size Distribution (% weight)						**Particle Size Distribution (% weight)**				
Analyte	**Result**					**Analyte**	**Result**			
Gravel	0				**0%**	Gravel	0			
Very Coarse Sand	0				**0%**	Very Coarse Sand	0			
Coarse Sand	0				**0%**	Coarse Sand	0			
Medium Sand	0				**0%**	Medium Sand	0			
Fine Sand	0				**-**	Fine Sand	0.62			
Very Fine Sand	0.08				**187%**	Very Fine Sand	2.31			
Silt	85.68				**3%**	Silt	82.77			
Clay	14.24				**0%**	Clay	14.3			
POC (µg/L)						**POC (µg/L)**				
Analyte	**Result**	**MDL**	**RL**	**Qualifiers**		**Analyte**	**Result**	**MDL**	**RL**	**Qualifiers**
POC	4349				**23%**	POC	5455			
DDT (pg/L)						**DDT (pg/L)**				
Analyte	**Result**	**DL**	**EMPC**	**Qualifiers**		**Analyte**	**Result**	**DL**	**EMPC**	**Qualifiers**
2,4'-DDE	717				**1%**	2,4'-DDE	722			
4,4'-DDE	19700			B, D	**8%**	4,4'-DDE	18200			B, D
2,4'-DDD	4080			D	**0%**	2,4'-DDD	4070			D
2,4'-DDT	4280				**3%**	2,4'-DDT	4400			
4,4'-DDD	4990			E	**10%**	4,4'-DDD	4500			D
4,4'-DDT	20900			D	**8%**	4,4'-DDT	19200			D
4,4'-DDMU	924				**5%**	4,4'-DDMU	881			

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Table C-5.
Field Duplicate and Relative Percent Difference (Cont.)

PCB (pg/L)						PCB (pg/L)				
Analyte	**Conc.**	**DL**	**EMPC**	**Qualifiers**		**Analyte**	**Conc.**	**DL**	**EMPC**	**Qualifiers**
PCB-1	4.81			J	**23%**	PCB-1	6.07			
PCB-2	2.14			J	**6%**	PCB-2	2.01			J
PCB-3	2.64			J	**4%**	PCB-3	2.76			J
PCB-4/10	23.8				**32%**	PCB-4/10	17.3			J
PCB-5/8	47.2				**9%**	PCB-5/8	43.3			
PCB-6	11				**10%**	PCB-6	9.91			J
PCB-7/9	6.53			J	**-**	PCB-7/9	ND	10.5		
PCB-11	397			B	**13%**	PCB-11	347			B
PCB-12/13	ND	6.52			**-**	PCB-12/13	ND	11.1		
PCB-14	ND	5.46			**-**	PCB-14	ND	9.32		
PCB-15	36.9				**16%**	PCB-15	31.3			
PCB-16/32	81.7				**16%**	PCB-16/32	69.5			
PCB-17	36.2				**18%**	PCB-17	30.3			
PCB-18	90.9				**17%**	PCB-18	76.8			
PCB-19	11.5				**16%**	PCB-19	9.79			
PCB-20/21/33	63.5				**11%**	PCB-20/21/33	56.9			
PCB-22	64.6				**10%**	PCB-22	58.2			
PCB-23	ND	2.85			**-**	PCB-23	ND	1.85		
PCB-24/27	10.4				**16%**	PCB-24/27	8.85			J
PCB-25	9.84				**20%**	PCB-25	8.07			
PCB-26	18.6				**7%**	PCB-26	17.4			
PCB-28	145				**0%**	PCB-28	145			
PCB-29	ND	3.12			**-**	PCB-29	ND	2.02		
PCB-30	ND	1.25			**-**	PCB-30	ND	1.03		
PCB-31	132				**20%**	PCB-31	108			
PCB-34	ND	3.17			**-**	PCB-34	ND	2.06		
PCB-35	ND		9.66		**-**	PCB-35	11.1			
PCB-36	ND	2.84			**-**	PCB-36	ND	1.97		

Table C-5.
Field Duplicate and Relative Percent Difference (Cont.)

PCB-37	70.6				**4%**	PCB-37	67.8				
PCB-38	ND	2.71			**-**	PCB-38	ND	1.88			
PCB-39	ND	2.74			**-**	PCB-39	ND	1.9			
PCB-40	49.8				**13%**	PCB-40	43.7				
PCB-41/64/71/72	214				**5%**	PCB-41/64/71/72	204				
PCB-42/59	75				**9%**	PCB-42/59	68.7				
PCB-43/49	170				**9%**	PCB-43/49	156				
PCB-44	236				**9%**	PCB-44	216				
PCB-45	33				**5%**	PCB-45	31.4				
PCB-46	15.8				**2%**	PCB-46	16.2				
PCB-47	64.6				**10%**	PCB-47	58.7				
PCB-48/75	33.2				**17%**	PCB-48/75	27.9				
PCB-50	ND	2.72			**-**	PCB-50	ND	2.72			
PCB-51	11				**8%**	PCB-51	10.2				
PCB-52/69	260				**10%**	PCB-52/69	235				
PCB-53	28.9				**2%**	PCB-53	28.3				
PCB-54	ND	2.05			**-**	PCB-54	ND	2.05			
PCB-55	8.38				**-**	PCB-55	ND		5.97		
PCB-56/60	205				**2%**	PCB-56/60	200				
PCB-57	ND	2			**-**	PCB-57	ND	1.72			
PCB-58	ND	2.12			**-**	PCB-58	ND	1.82			
PCB-61/70	314				**9%**	PCB-61/70	286				
PCB-62	ND	2.39			**-**	PCB-62	ND	2.14			
PCB-63	10.4				**31%**	PCB-63	7.59				
PCB-65	ND	2.38			**-**	PCB-65	ND	2.13			
PCB-67	8.74				**18%**	PCB-67	7.32				
PCB-68	2.5			J	**-**	PCB-68	ND	1.92			
PCB-73	ND	2.28			**-**	PCB-73	ND	2.13			
PCB-74	108				**9%**	PCB-74	99.1				
PCB-76/66	225				**5%**	PCB-76/66	213				

Table C-5.
Field Duplicate and Relative Percent Difference (Cont.)

PCB-77	55.7				**5%**	PCB-77	53.2			
PCB-78	ND	2.36			**-**	PCB-78	ND	2.2		
PCB-79	ND	2.38			**-**	PCB-79	7.61			
PCB-80	ND	1.99			**-**	PCB-80	ND	1.94		
PCB-81	ND		3.02		**-**	PCB-81	5.07			J
PCB-82	98.1				**13%**	PCB-82	86.3			
PCB-83	ND	5.04			**-**	PCB-83	ND	2.5		
PCB-84/92	233				**10%**	PCB-84/92	210			
PCB-85/116	96.7				**4%**	PCB-85/116	92.6			
PCB-86	ND	7.78			**-**	PCB-86	ND	3.85		
PCB-87/117/125	224				**9%**	PCB-87/117/125	205			
PCB-88/91	75.6				**16%**	PCB-88/91	64.3			
PCB-89	ND	7.21			**-**	PCB-89	6.4			
PCB-90/101	561				**7%**	PCB-90/101	523			
PCB-93	ND	6.28			**-**	PCB-93	ND	3.04		
PCB-94	ND	6.34			**-**	PCB-94	ND	3.07		
PCB-95/98/102	379				**9%**	PCB-95/98/102	347			
PCB-96	ND	4.53			**-**	PCB-96	3.34			J
PCB-97	175				**11%**	PCB-97	156			
PCB-99	223				**9%**	PCB-99	203			
PCB-100	ND	4.9			**-**	PCB-100	ND	2.47		
PCB-103	ND	5.26			**-**	PCB-103	3.71			J
PCB-104	ND	3.84			**-**	PCB-104	ND	1.93		
PCB-105	238				**9%**	PCB-105	218			
PCB-106/118	561				**9%**	PCB-106/118	515			
PCB-107/109	43.8				**14%**	PCB-107/109	38.2			
PCB-108/112	ND		26.2		**-**	PCB-108/112	27.7			
PCB-110	659				**9%**	PCB-110	601			
PCB-111/115	9.47			J	**23%**	PCB-111/115	11.9			
PCB-113	ND	5.13			**-**	PCB-113	4.6			J

Table C-5.
Field Duplicate and Relative Percent Difference (Cont.)

PCB-114	13				**24%**	PCB-114	10.2			
PCB-119	9.85				**10%**	PCB-119	8.87			
PCB-120	ND	4.42			**-**	PCB-120	ND	2.19		
PCB-121	ND	4.25			**-**	PCB-121	ND	2.06		
PCB-122	ND	4.51			**-**	PCB-122	ND	5.7		
PCB-123	12.6				**-**	PCB-123	ND		8.02	
PCB-124	28.1				**16%**	PCB-124	23.9			
PCB-126	14.5				**21%**	PCB-126	11.8			
PCB-127	ND	5.58			**-**	PCB-127	ND	5.95		
PCB-128/162	131				**13%**	PCB-128/162	115			
PCB-129	41.7				**5%**	PCB-129	39.8			
PCB-130	50.3				**13%**	PCB-130	44.2			
PCB-131	ND	3.27			**-**	PCB-131	ND	6.05		
PCB-132/161	192				**6%**	PCB-132/161	181			
PCB-133/142	22.3				**24%**	PCB-133/142	17.5			
PCB-134/143	41.8				**19%**	PCB-134/143	34.4			
PCB-135	73.8				**1%**	PCB-135	72.9			
PCB-136	68.7				**11%**	PCB-136	61.3			
PCB-137	30.2				**18%**	PCB-137	36			
PCB-138/163/164	744				**11%**	PCB-138/163/164	667			
PCB-139/149	437				**7%**	PCB-139/149	406			
PCB-140	ND	3.24			**-**	PCB-140	3.75			J
PCB-141	144				**8%**	PCB-141	133			
PCB-144	ND		27.6		**-**	PCB-144	24.7			
PCB-145	ND	2.1			**-**	PCB-145	ND	1.86		
PCB-146/165	92.3				**19%**	PCB-146/165	76.4			
PCB-147	ND		9.33		**-**	PCB-147	9.86			
PCB-148	ND	2.95			**-**	PCB-148	ND	2.61		
PCB-150	ND	2.16			**-**	PCB-150	ND	1.91		
PCB-151	117				**5%**	PCB-151	111			

Table C-5.
Field Duplicate and Relative Percent Difference (Cont.)

PCB-152	ND	2.11			**-**	PCB-152	ND	1.87		
PCB-153	562				**8%**	PCB-153	519			
PCB-154	9.34				**29%**	PCB-154	6.97			
PCB-155	ND	2.01			**-**	PCB-155	ND	1.78		
PCB-156	75.3				**16%**	PCB-156	64.2			
PCB-157	20.5				**15%**	PCB-157	17.7			
PCB-158/160	83.6				**9%**	PCB-158/160	76.7			
PCB-159	ND	2.75			**-**	PCB-159	ND	4.88		
PCB-166	ND	2.66			**-**	PCB-166	ND	4.73		
PCB-167	33.6				**4%**	PCB-167	32.3			
PCB-168	ND	2.11			**-**	PCB-168	ND	3.9		
PCB-169	ND	3.66			**-**	PCB-169	ND	6.53		
PCB-170	220				**12%**	PCB-170	196			
PCB-171	59.1				**19%**	PCB-171	48.8			
PCB-172	41.1				**3%**	PCB-172	42.4			
PCB-173	ND	4.22			**-**	PCB-173	ND	2.46		
PCB-174	230				**14%**	PCB-174	199			
PCB-175	8.87				**10%**	PCB-175	9.78			
PCB-176	24.4				**10%**	PCB-176	22			
PCB-177	123				**2%**	PCB-177	120			
PCB-178	41.8				**4%**	PCB-178	40			
PCB-179	76.2				**8%**	PCB-179	70.1			
PCB-180	480				**5%**	PCB-180	456			
PCB-181	ND	3.42			**-**	PCB-181	ND	1.99		
PCB-182/187	250				**11%**	PCB-182/187	224			
PCB-183	103				**6%**	PCB-183	97			
PCB-184	ND	2.42			**-**	PCB-184	3.44		J	
PCB-185	26.8				**14%**	PCB-185	23.2			
PCB-186	ND	2.27			**-**	PCB-186	ND	1.35		
PCB-188	ND	2.08			**-**	PCB-188	ND	1.24		

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Table C-5.
Field Duplicate and Relative Percent Difference (Cont.)

PCB-189	ND	3.82			**-**	PCB-189	8.86			
PCB-190	41.9				**9%**	PCB-190	38.1			
PCB-191	10.3				**34%**	PCB-191	7.29			
PCB-192	ND	3.02			**-**	PCB-192	ND	1.76		
PCB-193	20.6				**3%**	PCB-193	21.3			
PCB-194	116				**4%**	PCB-194	112			
PCB-195	46.2				**6%**	PCB-195	43.6			
PCB-196/203	111				**11%**	PCB-196/203	99.8			
PCB-197	ND	4.88			**-**	PCB-197	5.52			
PCB-198	ND	11.9			**-**	PCB-198	ND	3.62		
PCB-199	98.5				**0%**	PCB-199	98.8			
PCB-200	16.7				**26%**	PCB-200	12.9			
PCB-201	15.9				**15%**	PCB-201	18.5			
PCB-202	29.4				**13%**	PCB-202	25.7			
PCB-204	ND	5.15			**-**	PCB-204	ND	2.66		
PCB-205	ND	11.1			**-**	PCB-205	ND	8.49		
PCB-206	66.1				**4%**	PCB-206	68.5			
PCB-207	11.5				**8%**	PCB-207	10.6			
PCB-208	18.7				**2%**	PCB-208	18.4			
PCB-209	32.8				**20%**	PCB-209	26.9			

Notes:
J = The amount detected is below the low calibration limit.
B = Analyte also detected in laboratory blank sample.
D = Dilution.
EMPC = Estimated maximum possible concentration.
MDL = Method detection limit.
RL = Reporting limit.
ND = Analyte not detected above MDL.

3.4 Percent Capture

The SAP established the following percent capture criteria.

- Collection of sample aliquots from the onset of rainfall until flow returns to within 10% of base flow or sampling has been undertaken for 24 hours.
- Capture of at least 80% of storm runoff.
- Sufficient sample pacing so that the stream flow does not lead to the automated sampler becoming outpaced (i.e., unable to keep up with required sample collection).

During this special study, sample pacing adjustments were made in a timely manner as required during monitoring events. Laboratories were given clear instructions regarding sample compositing to account for sample pacing adjustments that were made to prevent or mitigate outpaced automated samplers. Table 6 to Table 9 present the percent capture and percent of base flow that was reached when sampling was ceased. These results are considered acceptable.

Table C-6.
Dry 1 Percent Capture

Site	Recorded Flow (cubic feet)	Monitored Event Flow (cubic feet)	Percent Capture	Percent of Base Flow
Dominguez Channel	566,000	566,000	100%	0%
Los Angeles River	23,117,000	23,117,000	100%	0%

Table C-7.
Storm 1 Percent Capture

Site	Recorded Flow (cubic feet)	Monitored Event Flow (cubic feet)	Percent Capture	Percent of Base Flow
Dominguez Channel	17,063,000	16,460,000	96.5%	3%
Los Angeles River	226,508,000	217,034,000	95.8%	8%

Table C-8.
Storm 2 Percent Capture

Site	Recorded Flow (cubic feet)	Monitored Event Flow	Percent Capture	Percent of Base Flow
Dominguez Channel	42,569,000	41,233,000	96.9%	3%
Los Angeles River	778,264,000	778,264,000	100%	2%
Torrance Lateral	8,982,000	8,274,000	92.1%	12%
Port Land Use	69,000	63,000	91.3%	2%

Table C-9.
Storm 3 Percent Capture

Site	Recorded Flow (cubic feet)	Monitored Event Flow (cubic feet)	Percent Capture	Percent of Base Flow
Port Land Use	838	766	91.4%	13%

3.5 Composite Sample Representativeness

The SAP established the following composite sample representativeness criteria.

- A minimum of 20 sample aliquots during the monitoring event
- Sample aliquots that represent at least 75% of the monitoring event total flows or a 24-hour time period.

Table 10 presents a summary of these criteria. The results are considered acceptable.

Table C-10.
Composite Sample Representativeness

Site	Samples			
	Attempt	Success	Failure	Percent Success
Dry 1				
DC	57	57	0	100%
LAR	76	76	0	100%
Storm 1				
DC	50	50	0	100%
LAR	57	57	0	100%
Storm 2				
DC	44	44	0	100%
LAR	160	151	9	94%
TL	69	69	0	100%
PLU	41	41	0	100%
Storm 3				
PLU	84	84	0	100%

3.6 Sonde Measurements

The sondes are subject to two QA/QC assessment, accuracy and completeness. A summary of each is presented in this section.

3.6.1 Sonde Accuracy

Table 11 presents a summary of sonde calibration results to demonstrate meter accuracy. Table 12 presents a summary of the completeness of sonde measurement. The results are considered acceptable.

amec foster wheeler

Table C-11.
Sonde Accuracy

Event	Site	Result and RPD	Parameter: pH	Parameter: EC (uS/cm)		Parameter: Turbidity (NTU)		Parameter: Dissolved Oxygen (% saturation at 760 mm Hg)	Parameter: Temperature
		Acceptance Criteria	±0.2 units	± 0.5% of reading + 0.001 mS/cm		±2% of reading or 0.3 NTU, whichever is greater		0 to 20 mg/L ±0.01 mg/L or 1% of reading, whichever is greater; 20 to 50 mg/L ±15% of reading.	±0.15 °C
		Standard	7.00	1,000	10,000	0	1,000	100%	Factory Calibrated
Dry 1	DC	Result	6.91	1,000	10,010	0.7	999.8	100%	
		Within Criteria?	YES	YES	YES	NO[1]	YES	YES	
	LAR	Result	6.9	1,000	10,010	3.1	1,000	100%	
		Within Criteria?	YES	YES	YES	NO[1]	YES	YES	
Storm 1	DC	Result	6.86	1,000	10,000	0	1,000	100%	
		Within Criteria?	YES	YES	YES	YES	YES	YES	
	LAR	Result	6.89	1,000	10,000	0.1	1,000	100%	
		Within Criteria?	YES	YES	YES	YES	YES	YES	
Storm 2	DC	Result	7.03	1,000	9,999	0	1,000	100%	
		Within Criteria?	YES	YES	YES	YES	YES	YES	
	LAR	Result	6.96	1,001	10,000	0	999.7	100%	
		Within Criteria?	YES	YES	YES	YES	YES	YES	
	TL	Result	6.97	1,000	10,000	0	1,000	100%	
		Within Criteria?	YES	YES	YES	YES	YES	YES	
	PLU	Result	Original sonde failed calibration. Secondary sonde used for storm which was calibrated by rental vendor (Pine Environmental).						
		Within Criteria?							
Storm 3	PLU	Result	Sonde not deployed						
		Within Criteria?							

Notes:
1. Calibration accepted based on best professional judgement at time of calibration.

Table C-12.
Sonde Completeness

Event	Site	Result	Parameter				
			pH	EC	Turbidity	Dissolved Oxygen	Temperature
		Acceptance Criteria	90%	90%	90%	90%	90%
Dry 1	DC	Measurements Possible	97				
		Measurements Taken	97	0	97	97	97
		Percent Success	100%	0%	100%	100%	100%
		Within Criteria?	YES	NO[1]	YES	YES	YES
	LAR	Measurements Possible	94				
		Measurements Taken	94	0	94	94	94
		Percent Success	100%	0%	100%	100%	100%
		Within Criteria?	YES	NO[1]	YES	YES	YES
Storm 1	DC	Measurements Possible	44				
		Measurements Taken	44	44	44	44	44
		Percent Success	100%	100%	100%	100%	100%
		Within Criteria?	YES	YES	YES	YES	YES
	LAR	Measurements Possible	82				
		Measurements Taken	82	82	82	82	82
		Percent Success	100%	100%	100%	100%	100%
		Within Criteria?	YES	YES	YES	YES	YES
Storm 2	DC	Measurements Possible	193				
		Measurements Taken	193	182	193	11	193
		Percent Success	100%	94%	100%	6%	100%
		Within Criteria?	YES	YES	YES	NO[2]	YES
	LAR	Measurements Possible	367				
		Measurements Taken	367	237	347	367	367
		Percent Success	100%	65%	95%	100%	100%
		Within Criteria?	YES	NO[3]	YES	YES	YES
	TL	Measurements Possible	169				
		Measurements Taken	169	105	155	169	169
		Percent Success	100%	62%	92%	100%	100%
		Within Criteria?	YES	NO[3]	YES	YES	YES
	PLU	Measurements Possible	109				
		Measurements Taken	109	109	109	109	109
		Percent Success	100%	100%	100%	100%	100%
		Within Criteria?	YES	YES	YES	YES	YES
Storm 3	PLU	Measurements Possible	Sonde not deployed				
		Measurements Taken					
		Percent Success					
		Within Criteria?					

Notes:
1. Insufficient water to cover conductivity probe.
2. Dissolved oxygen probe appears to have been damaged during the initial debris flow.
3. Conductivity probe only covered when sufficient water depth was prese

APPENDIX D

FIELD LOG BOOK

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2/11/14

* PIER A
48" Pipe
≈ 7' drop from Box
- Pipe Inlet ≈ 60' up from outlet

Where to install Sonde?
- Hang from Rope in 2nd chamber of Pump Station
- Anchor to 2nd chamber Spillway wall
- Base latter rungs in 1st chamber Pump Station

*LA River Wardlow Site
Exit 710N @ Willow St East
Make Uturn, Enter Utility Rd ~~[illegible]~~
from 710N onramp - Immediate Right onto Channel Utility Rd

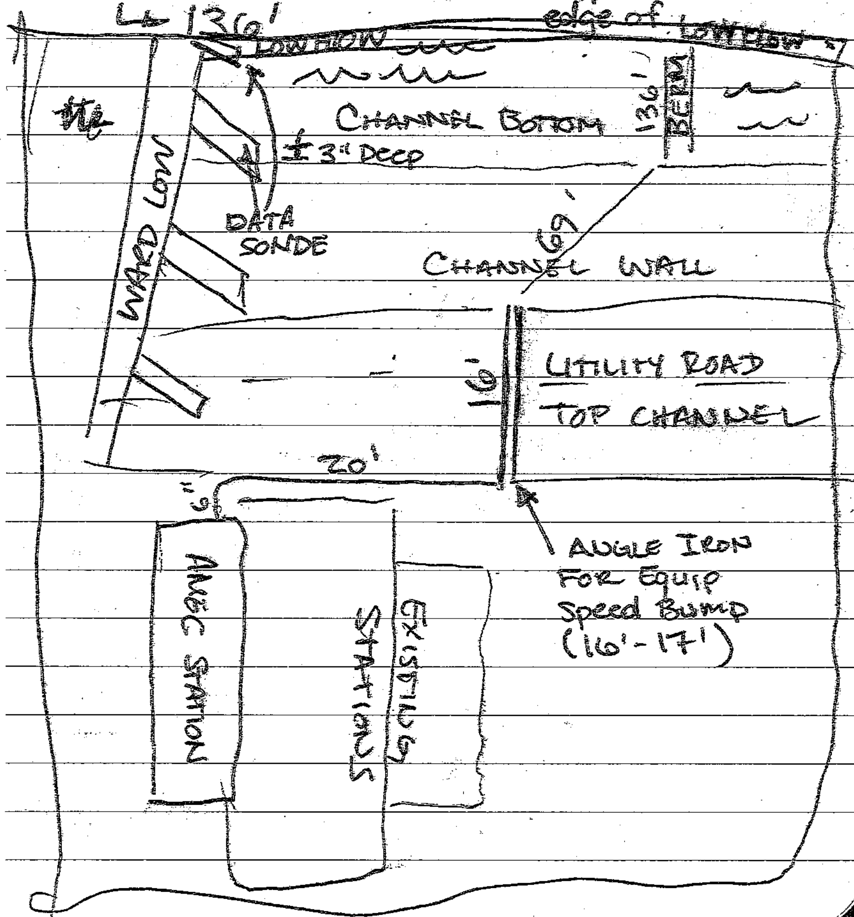
WARD LOW DATA SONDE

- Possible Install @ Ward Low Bridge
- Downstrm end of 3rd or 4th PILAR
- 3rd Pillar = ± 3" deep during DW
- 4TH = in low flow channel but access from opposite side of channel from monitor Station
- Question's:
  - is 3" deep enough? Yes = 3rd No = 4TH
  - Long Term Deployment w/out download? Yes = 4TH No = 3rd
  - WW & DW Data?

2/11/14

WARD LOW SITE

- Box - 90° out ± 6"
- 20' Right to 90°
- 16'-17' to Top of Channel (Angle Iron Speed Bump)
- 45° down 69'
- 45° @ channel Bottom to lowflow center



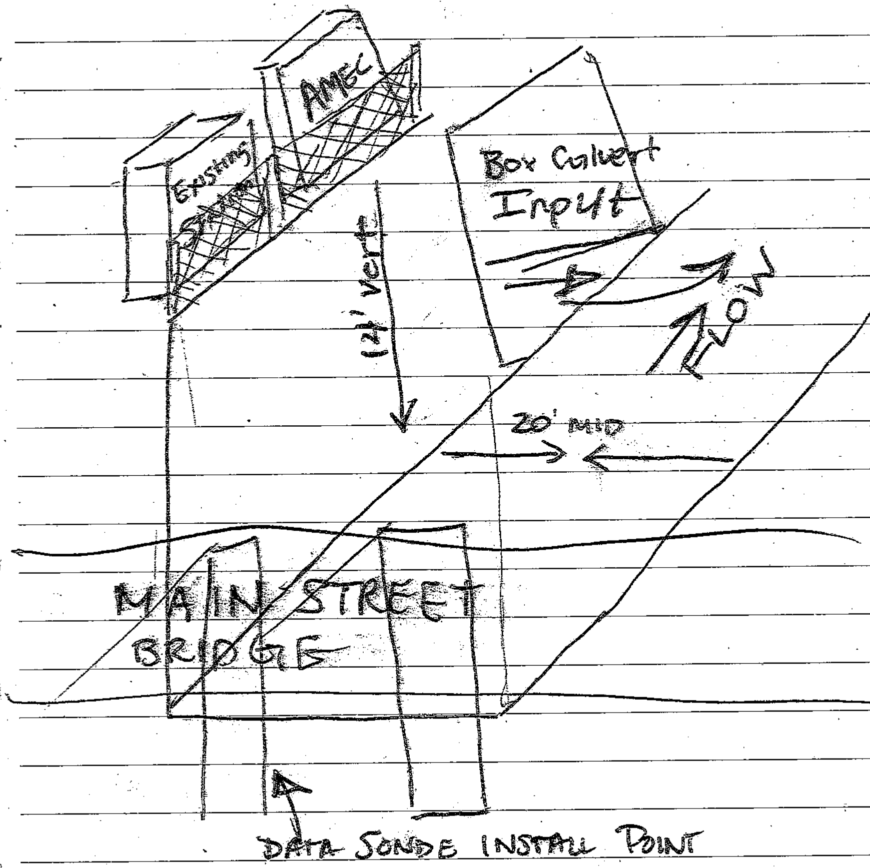
Bring Ladder
+
5" Anchors.
+
Concrete
+

Large conduit straps

2/11/14

Torrance Lateral

- Enclosure against Fence @ Channel wall
- Channel Wall = 14' Vertical
- ~20' to mid-channel

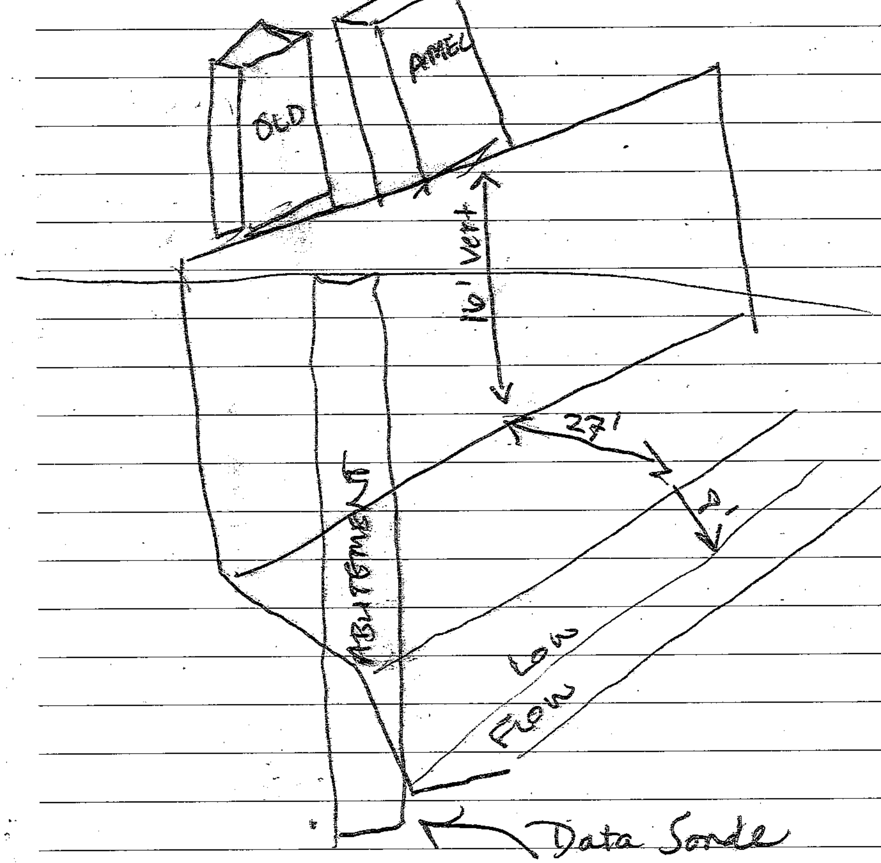


Bring Ladder

6 - 10' 2" conduit.

2/11/14

Dominguez Channel
- Channel Wall - 16'
- Channel floor - 27' (flat) + 8' (low flow)
- Data Sonde Placement - Upstrm Bridge Abutment



Pier A confined space 2/12/14

O_2 = 20.9%

CO = 0ppm

LEL = 0%

H_2S = 0.0ppm

VOC = 0.0ppm

CF = 1.00 Isobuty

Pier A

- Battery Cables
- Sample tube ≃ 12'
- Need sampler

LA RIVER

- Run Sampler tube
- Install booster pump
- Install Speed bumps
- Possibly sink more anchors on bubbler tube
- enclosure for booster pump

TORRANCE LAT

- Channel @ AUB is 45' Wide
- need sampler + tubing
- program f/m

End mileage 2/13/14
146527

2.17.14
146618 Begin

2.17.14
146777 END

2.18.14
146777 Begin
146902 END

2-19.14
146777 B
147101 E

2·18·14

LA RIVER
AVG 240 cfs
288,000 pacing?
Sample start @ 1027
pacing set to 300K

Dominguez channel

AVG flow = 5.7cfs
Pacing = 6840
~~Sample start 1148~~
Pacing = 10000
Sample start @ 1150

Swap LA River bottle 1 @ 1612

2-26-14

2-26-13
148378 Begin
148667 END
LA R PACE AT 3.7 mil
DMC PACE AT 100K

DMC - Missed some samples @ begin deployed but sampler line pacing low but not changing yet

DC - Sample time 0734

FWL - Sample time 0800

MC Sample time 1000

FWL-FD Sample time 0800

3-5-14
Begin 148851
END 149102

SR73 3-3-14

TW

- 1149 in sampler on right has water near liquid sensor possible putt sampler higher
- Remove large strainers.

- 1149 effluent needs new Aux7 cable old one trashed

Carson Exit off 405
213 st Dominguez

Storm 1 fresh water [illegible]

EC 260 uS @ 16.3 °C

12/10/14

T. Wells, K. Green, G. Meginnis

- installed sample intakes & flow sensors at TL, DC, LAR, PLU

- Calibrated sample volume & flow sensor at each of 4 sites

- Repaired LAR enclosure.

- installed redundant flow sensors & sample intakes at LAR & DC.

12/11/14

K. Green & G Maginnis

- finalized installations at
  LAR, DC, PLU, & TL
  - installed data sondes at
    LAR, DC, PLU TL
  - installed sample intake battery
    at DC on bridge at
    1', 2', 3', & 4' above channel
    invert for mid column sampling.

T. Wells
  - programmed equipment &
    enabled sample pacing.
  - initial sample pacings
    LAR - 3,000,000 cf
    DC - 300,000
    TL - 3,000
    PLU - 30

*Based on ~1.1" storm last
year rainfall to flow ratio.

12/12/14

Dispatched field crews at 0230
as follows

LAR & PLU & FCL
Lead - K. Green
LAR MES - S. Vingva-co, Clay Kraft
LAR Bridge G. Mcginnis, J. Lee
PLU - Jason Elrich

DC & TL
Lead - T. Wells
TL - B. Isham
DC - J. Rudolph, C. Simonsen, K. Grobbi

- Large squall line hit LA ~0315
strong winds, lots of flooding
- numerous transformers blew
- street lights out
- NWS called it a "surprise" in
thier discusion
- ~0.9" in ~30 minutes, that
was close to the 1.1"
forcast for the entire storm

To account for intisity
PLU pacing adjusted from 30 to 1,500 cf
DC adjusted from 300,000 - 900,000
TL adjusted from 3000 - 50,000 - 100,000
LAR adjusted from 3,000,000 to 5,000,000

TL ran smoothly once pacing was adjusted, called at ~1130
B. Ishon samples to Physis

DC, switched to secondary intak, primary blocked, called at ~1300

PLU ran smooth once pacing adjusted, called at about ~1300

LAR still sampling, all samples at 5,000,000 cf

Very good success w/ mid column sampling on both LAR & DC - samples successfully pulled from mid column at both sites. Co-timed samples collected from MES stations so that a relationship can be developed.

- fresh water lens sample collected by C. Kraft & J. Elrich at 213th st. bridge, same location as previous event for consistency.
  ↳ salinity/EC ~350uS

- field teams delivered TL, PLU, DC, & FWL samples to lab.

- LAR set & allowed to continue sampling, all field teams dismissed except T. Wells, K Green, G McGinnis.

12/13/14

- K. Green, T. Wells, G. McGinnis break down PLU station

- K. Green, G. McGinnis break down LAR station & deliver to lab.

- T. Wells breaks down DC & TL stations.

- enclosures & sonde housings left in place.

- Crews return to office.

- End of Event

4/6/15

T, Wells arrived at Pier A site. Chance of rain overnight. Very small chance but in place in the event it does rain. No equipment installed, will do time weighted composite if it rains.

4/7/15

No rain overnight. G. McGinnes also on site now as of 0600. Set up equipment. Storm appears to have been pushed back closer to a 1100 start time.
@ 1650 - rain has FINALLY stated
- James just stopped by site to check out equipment. Rain has stopped was very brief. Sampler collected 3 samples pacing is 2 cf, so very little run off. More rain to the north on the way.
-1950 - Finally more rain, good moderate rainfall, good response sampler is not keeping up, but getting good samples. There

will not be a lot of runoff
so will not change pacing &
will let it keep going
- water is quite brown & turbid,
very foamy.

- Last sample at 2142. Peak
flow was ~ 0.28 cfs, flow
meter now at ~ 0.03 cfs, or
roughly 10% of base flow.
~ 100L sample water collected
sampler sampled close to non
stop through event to get
enough water for analysis, result
is that sample is more of a
time weighted composite than
flow. But project is to
confirm presence of PCBs, thus
sample is good to go and
representative of entire runoff
period to do that.

off site ~ 2200

4/8/15

T. Wells & G. McGinnes broke down site. T. Wells to take samples to lab. G. McGinnes to take equipment to lab.

- samples successfully delivered to Physis.

- END OF EVENT.

APPENDIX E

FIELD DATA SHEETS

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Field Data Log Sheet

Station ID DC-STW-C-D1 **Field Crew** KG, GM **Date** 2-19-14

Event Wet Weather 1 Wet Weather 2 Dry Weather 1 **Time**

Datum Latitude 33. Longitude -118.

PHOTOS TAKEN: Upstream Downstream At Sample Intake Banks Equipment Storm Rainfall

ATMOSPHERIC CONDITIONS:

Weather	Sunny Partly Cloudy Overcast Fog
Last Rain	> 72 Hours < 72 Hours Currently Raining

RUNOFF CHARACTERISTICS:

Odor	None Musty Rotten Eggs Chemical Sewage Other
Color	None Yellow Brown White Gray Other
Clarity	Clear Slightly Cloudy Opaque Other
Floatables	None Trash Bubbles/Foam Sheen Other
Deposits	None Sediment/Gravel Fine Particles Stains Oily Deposits Other
Vegetation	None Limited Normal Excessive Other
Water Flow	Flowing Ponded Moist Dry

CURRENT CONDITIONS - Composite Monitoring Site:

Upon Arrival: **Flow meter Running?** Y N **Sampler Running?** Y N **Tubing Connected?** Y N

Level (in) **Velocity (fps)** **Flow (cfs)**

Total Flow (cf) **# of Missed Samples**

Flow Meter Battery Voltage **# of Successful Samples**

Sampler Battery Voltage **Approx. Sample Volume (L)**

Upon Departure: **Flow meter Running?** Y N **Sampler Running?** Y N **Tubing Connected?** Y N

CURRENT CONDITIONS - Grab Sample Monitoring Site:

Estimated Flow (Machado Lake Overflow) **Velocity** N/A **Depth** **Width**

Freshwater Lens Estimated Thickness **Sample Depth**

BOTTLE CHANGE:

Bottle 1	Bottle 2	Bottle 3	Bottle 4
Date 2-18-14	Date 2-18-14	Date 2-19-14	Date 2-19-14
Time	Time	Time	Time 1143
Aliquot	Aliquot	Aliquot	Aliquot
Volume	Volume	Volume	Volume
Bottle ID 1 of 4	Bottle ID 2 of 4	Bottle ID 3 of 4	Bottle ID 4 of 4

POST STORM DATA:

Total Flow Volume (cf)	Sample Aliquots	Total Sample Volume (L)	Sample ID
			DC-STW-C-D1-20140219

NOTES/COMMENTS

Field Data Log Sheet

Station ID LAR **Field Crew** KG, BS, GM **Date** 2/19/2014

Event Wet Weather 1 Wet Weather 2 Dry Weather 1 **Time** 09:00

Datum **Latitude** 33. **Longitude** -118.

PHOTOS TAKEN: Upstream Downstream At Sample Intake Banks Equipment Storm Rainfall

ATMOSPHERIC CONDITIONS:

Weather	Sunny	Partly Cloudy	Overcast	Fog		
Last Rain	> 72 Hours	< 72 Hours	Currently Raining			

RUNOFF CHARACTERISTICS:

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	None	Yellow	Brown	White	Gray	Other
Clarity	Clear	Slightly Cloudy	Opaque	Other		
Floatables	None	Trash	Bubbles/Foam	Sheen	Other	
Deposits	None	Sediment/Gravel	Fine Particles	Stains	Oily Deposits	Other Trash
Vegetation	None	Limited	Normal	Excessive	Other	
Water Flow	Flowing	Ponded	Moist	Dry		

CURRENT CONDITIONS - Composite Monitoring Site:

Upon Arrival: Flow meter Running? Y N **Sampler Running?** Y N **Tubing Connected?** Y N

Level (in) **Velocity (fps)** **Flow (cfs)**

Total Flow (cf) **# of Missed Samples**

Flow Meter Battery Voltage **# of Successful Samples**

Sampler Battery Voltage **Approx. Sample Volume (L)**

Upon Departure: Flow meter Running? Y N **Sampler Running?** Y N **Tubing Connected?** Y N

CURRENT CONDITIONS - Grab Sample Monitoring Site:

Estimated Flow (Machado Lake Overflow) **Velocity** **Depth** **Width**

Freshwater Lens Estimated Thickness **Sample Depth**

BOTTLE CHANGE:

Bottle 1	Bottle 2	Bottle 3	Bottle 4
Date 2·18·2014	Date 2-18-2014	Date 2-19-2014	Date 2-19-2014
Time	Time	Time 0600	Time 1035
Aliquot	Aliquot ~10:52	Aliquot ~05 52	Aliquot
Volume	Volume	Volume	Volume
Bottle ID 1 of 4	Bottle ID 2 of 4	Bottle ID 3 of 4	Bottle ID 4 of 4

POST STORM DATA:

Total Flow Volume (cf)	Sample Aliquots	Total Sample Volume (L)	Sample ID
			LAR-STW-DI-20140219

collected FB @ 0930 LAR-FB-DI-20140219

NOTES/COMMENTS

Field Data Log Sheet

Station ID Dominguez **Field Crew** KG, CK, JE **Date** 2-27-14

Event Wet Weather 1 Wet Weather 2 Dry Weather 1 **Time** 0200

Datum Latitude 33. Longitude -118.

PHOTOS TAKEN: Upstream Downstream At Sample Intake Banks Equipment Storm Rainfall

ATMOSPHERIC CONDITIONS:

Weather	Sunny	Partly Cloudy	Overcast	Fog		
Last Rain	> 72 Hours	< 72 Hours	Currently Raining			

RUNOFF CHARACTERISTICS:

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	None	Yellow	Brown	White	Gray	Other
Clarity	Clear	Slightly Cloudy	Opaque	Other		
Floatables	None	Trash	Bubbles/Foam	Sheen	Other	
Deposits	None	Sediment/Gravel	Fine Particles	Stains	Oily Deposits	Other
Vegetation	None	Limited	Normal	Excessive	Other	
Water Flow	Flowing	Ponded	Moist	Dry		

CURRENT CONDITIONS - Composite Monitoring Site:

Upon Arrival: Flow meter Running? Y N **Sampler Running?** Y N **Tubing Connected?** Y N

Level (in) 51 **Velocity (fps)** — **Flow (cfs)** 900

Total Flow (cf) **# of Missed Samples**

Flow Meter Battery Voltage 12.5 **# of Successful Samples** 6

Sampler Battery Voltage 12.7 **Approx. Sample Volume (L)** 3

Upon Departure: Flow meter Running? Y N **Sampler Running?** Y N **Tubing Connected?** Y N

CURRENT CONDITIONS - Grab Sample Monitoring Site: N/A

~~Estimated Flow (Machado Lake Overflow)~~ ~~Velocity~~ Depth Width

~~Freshwater Lens Estimated Thickness~~ ~~Sample Depth~~

BOTTLE CHANGE:

Bottle 1	Bottle 2	Bottle 3	Bottle 4
Date	Date	Date	Date
Time	Time	Time	Time
Aliquot	Aliquot	Aliquot	Aliquot
Volume	Volume	Volume	Volume
Bottle ID	Bottle ID	Bottle ID	Bottle ID

POST STORM DATA:

Total Flow Volume (cf)	Sample Aliquots	Total Sample Volume (L)	Sample ID

NOTES/COMMENTS

amec

Field Data Log Sheet

Station ID: LA RIVER Field Crew: KG, JE Date: 7-27-14

Event: Wet Weather 1 Wet Weather 2 Dry Weather 1 Time: 0553

Datum: ____ Latitude: 33. Longitude: -118.

PHOTOS TAKEN: Upstream Downstream At Sample Intake Banks Equipment Storm Rainfall

ATMOSPHERIC CONDITIONS:

Weather	Sunny	Partly Cloudy	Overcast	Fog	
Last Rain	> 72 Hours	< 72 Hours	Currently Raining		

RUNOFF CHARACTERISTICS:

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	None	Yellow	Brown	White	Gray	Other
Clarity	Clear	Slightly Cloudy	Opaque	Other		
Floatables	None	Trash	Bubbles/Foam	Sheen	Other	
Deposits	None	Sediment/Gravel	Fine Particles	Stains	Oily Deposits	Other
Vegetation	None	Limited	Normal	Excessive	Other	
Water Flow	Flowing	Ponded	Moist	Dry		

CURRENT CONDITIONS - Composite Monitoring Site:

Upon Arrival: Flow meter Running? Y N Sampler Running? Y N Tubing Connected? Y N

Level (in): 53 Velocity (fps): — Flow (cfs): 8000

Total Flow (cf): ____ # of Missed Samples: ____

Flow Meter Battery Voltage: 12.5 # of Successful Samples: ____

Sampler Battery Voltage: 12.6 Approx. Sample Volume (L): 10 L

Upon Departure: Flow meter Running? Y N Sampler Running? Y N Tubing Connected? Y N

CURRENT CONDITIONS - Grab Sample Monitoring Site:

Estimated Flow (Machado Lake Overflow) Velocity ____ Depth ____ Width ____

Freshwater Lens Estimated Thickness ____ Sample Depth ____

BOTTLE CHANGE:

Bottle 1	Bottle 2	Bottle 3	Bottle 4
Date	Date	Date	Date
Time	Time	Time	Time
Aliquot	Aliquot	Aliquot	Aliquot
Volume	Volume	Volume	Volume
Bottle ID	Bottle ID	Bottle ID	Bottle ID

POST STORM DATA:

Total Flow Volume (cf)	Sample Aliquots	Total Sample Volume (L)	Sample ID

NOTES/COMMENTS

amec

Field Data Log Sheet

Station ID Freshwater lens **Field Crew** KG, CK **Date** 2-27-14

Event Wet Weather 1 Wet Weather 2 Dry Weather 1 **Time** 0800

Datum **Latitude** 33. **Longitude** -118.

PHOTOS TAKEN: Upstream Downstream At Sample Intake Banks Equipment Storm Rainfall

ATMOSPHERIC CONDITIONS:

Weather	Sunny	Partly Cloudy	Overcast	Fog		
Last Rain	> 72 Hours	< 72 Hours	Currently Raining			

RUNOFF CHARACTERISTICS:

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	Other	
Color	None	Yellow	Brown	White	Gray	Other	
Clarity	Clear	Slightly Cloudy	Opaque	Other			
Floatables	None	Trash	Bubbles/Foam	Sheen	Other		
Deposits	None	Sediment/Gravel	Fine Particles	Stains	Oily Deposits	Other	
Vegetation	None	Limited	Normal	Excessive	Other		
Water Flow	Flowing	Ponded	Moist	Dry			

CURRENT CONDITIONS - Composite Monitoring Site: N/A

Upon Arrival: Flow meter Running? Y N **Sampler Running?** Y N **Tubing Connected?** Y N

Level (in) **Velocity (fps)** **Flow (cfs)**

Total Flow (cf) **# of Missed Samples**

Flow Meter Battery Voltage **# of Successful Samples**

Sampler Battery Voltage **Approx. Sample Volume (L)**

Upon Departure: Flow meter Running? Y N **Sampler Running?** Y N **Tubing Connected?** Y N

CURRENT CONDITIONS - Grab Sample Monitoring Site:

~~**Estimated Flow (Machado Lake Overflow)**~~ ~~**Velocity**~~ ~~**Depth**~~ ~~**Width**~~

Freshwater Lens Estimated Thickness 7 6" **Sample Depth** ≈ 6"

BOTTLE CHANGE: N/A

Bottle 1	Bottle 2	Bottle 3	Bottle 4
Date	Date	Date	Date
Time	Time	Time	Time
Aliquot	Aliquot	Aliquot	Aliquot
Volume	Volume	Volume	Volume
Bottle ID	Bottle ID	Bottle ID	Bottle ID

POST STORM DATA: N/A

Total Flow Volume (cf)	Sample Aliquots	Total Sample Volume (L)	Sample ID

NOTES/COMMENTS

Field Data Log Sheet

Station ID: Machado Lake Field Crew: KG, CK Date: 2-21-14

Event: Wet Weather 1 / Wet Weather 2 / Dry Weather 1 Time: 1000

Datum: ___ Latitude: 33. Longitude: -118.

PHOTOS TAKEN: Upstream / Downstream / At Sample Intake / Banks / Equipment / Storm Rainfall

ATMOSPHERIC CONDITIONS:

Weather	Sunny	Partly Cloudy	Overcast	Fog		
Last Rain	> 72 Hours	< 72 Hours	Currently Raining			

RUNOFF CHARACTERISTICS:

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	Other___	
Color	None	Yellow	Brown	White	Gray	Other___	
Clarity	Clear	Slightly Cloudy	Opaque	Other___			
Floatables	None	Trash	Bubbles/Foam	Sheen	Other___		
Deposits	None	Sediment/Gravel	Fine Particles	Stains	Oily Deposits	Other___	
Vegetation	None	Limited	Normal	Excessive	Other___		
Water Flow	Flowing	Ponded	Moist	Dry			

CURRENT CONDITIONS - Composite Monitoring Site: N/A

Upon Arrival: Flow meter Running? Y N Sampler Running? Y N Tubing Connected? Y N

Level (in) ___ Velocity (fps) ___ Flow (cfs) ___

Total Flow (cf) ___ # of Missed Samples ___

Flow Meter Battery Voltage ___ # of Successful Samples ___

Sampler Battery Voltage ___ Approx. Sample Volume (L) ___

Upon Departure: Flow meter Running? Y N Sampler Running? Y N Tubing Connected? Y N

CURRENT CONDITIONS - Grab Sample Monitoring Site: 24" Circular Pipe

Estimated Flow (Machado Lake Overflow) Velocity: 5+ FPS Depth: 18" Width: ___

Freshwater Lens Estimated Thickness ___ Sample Depth ___

BOTTLE CHANGE: N/A

Bottle 1	Bottle 2	Bottle 3	Bottle 4
Date	Date	Date	Date
Time	Time	Time	Time
Aliquot	Aliquot	Aliquot	Aliquot
Volume	Volume	Volume	Volume
Bottle ID	Bottle ID	Bottle ID	Bottle ID

POST STORM DATA: N/A

Total Flow Volume (cf)	Sample Aliquots	Total Sample Volume (L)	Sample ID

NOTES/COMMENTS

amec

Field Data Log Sheet

Station ID LAR **Field Crew** TW KG GM SV **Date** 12/12/14

Event Wet Weather 1 Wet Weather 2 Dry Weather 1 **Time** 0700

Datum — **Latitude** 33. — **Longitude** -118. —

PHOTOS TAKEN: Upstream Downstream ~~At Sample Intake~~ Banks Equipment Storm Rainfall

ATMOSPHERIC CONDITIONS:

Weather	Sunny	Partly Cloudy	Overcast	Fog
Last Rain	> 72 Hours	< 72 Hours	Currently Raining	

RUNOFF CHARACTERISTICS:

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	None	Yellow	Brown	White	Gray	Other
Clarity	Clear	Slightly Cloudy	Opaque	Other		
Floatables	None	Trash	Bubbles/Foam	Sheen	Other	
Deposits	None	Sediment/Gravel	Fine Particles	Stains	Oily Deposits	Other
Vegetation	None	Limited	Normal	Excessive	Other	
Water Flow	Flowing	Ponded	Moist	Dry		

CURRENT CONDITIONS - Composite Monitoring Site:

Upon Arrival: **Flow meter Running?** Y N **Sampler Running?** Y N **Tubing Connected?** Y N

Level (in) ~ 78" **Velocity (fps)** — **Flow (cfs)** ~1500

Total Flow (cf) ~ 1500 **# of Missed Samples** 3

Flow Meter Battery Voltage — **# of Successful Samples** 21

Sampler Battery Voltage — **Approx. Sample Volume (L)** 21

Upon Departure: **Flow meter Running?** Y N **Sampler Running?** Y N **Tubing Connected?** Y N

CURRENT CONDITIONS - Grab Sample Monitoring Site:

Estimated Flow (Machado Lake Overflow) **Velocity** **Depth** **Width**

Freshwater Lens Estimated Thickness **Sample Depth**

BOTTLE CHANGE:

Bottle 1	Bottle 2	Bottle 3	Bottle 4
Date	Date	Date	Date
Time	Time	Time	Time
Aliquot	Aliquot	Aliquot	Aliquot
Volume	Volume	Volume	Volume
Bottle ID	Bottle ID	Bottle ID	Bottle ID

POST STORM DATA:

Total Flow Volume (cf)	Sample Aliquots	Total Sample Volume (L)	Sample ID

NOTES/COMMENTS

amec

Field Data Log Sheet

Station ID PLC **Field Crew** CC JE TL **Date** 12.12.14

Event Wet Weather 1 Wet Weather 2 Dry Weather 1 **Time** 0330

Datum — **Latitude** 33. — **Longitude** -118. —

PHOTOS TAKEN: Upstream Downstream At Sample Intake Banks Equipment Storm Rainfall

ATMOSPHERIC CONDITIONS:

Weather	Sunny	Partly Cloudy	Overcast	Fog
Last Rain	> 72 Hours	< 72 Hours	Currently Raining	

RUNOFF CHARACTERISTICS:

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	Other_____
Color	None	Yellow	Brown	White	Gray	Other_____
Clarity	Clear	Slightly Cloudy	Opaque	Other_____		
Floatables	None	Trash	Bubbles/Foam	Sheen	Other_____	
Deposits	None	Sediment/Gravel	Fine Particles	Stains	Oily Deposits	Other_____
Vegetation	None	Limited	Normal	Excessive	Other_____	
Water Flow	Flowing	Ponded	Moist	Dry		

CURRENT CONDITIONS - Composite Monitoring Site:

Upon Arrival: **Flow meter Running?** Y N **Sampler Running?** Y N **Tubing Connected?** Y N

Level (in) 11.0 **Velocity (fps)** 5.5 **Flow (cfs)** 5

Total Flow (cf) — **# of Missed Samples** 0

Flow Meter Battery Voltage — **# of Successful Samples** 3

Sampler Battery Voltage — **Approx. Sample Volume (L)** 3

Upon Departure: **Flow meter Running?** Y N **Sampler Running?** Y N **Tubing Connected?** Y N

CURRENT CONDITIONS - Grab Sample Monitoring Site:

Estimated Flow (Machado Lake Overflow) **Velocity** ____ **Depth** ____ **Width** ____

Freshwater Lens Estimated Thickness ____ **Sample Depth** ____

BOTTLE CHANGE:

Bottle 1	Bottle 2	Bottle 3	Bottle 4
Date	Date	Date	Date
Time	Time	Time	Time
Aliquot	Aliquot	Aliquot	Aliquot
Volume	Volume	Volume	Volume
Bottle ID	Bottle ID	Bottle ID	Bottle ID

POST STORM DATA:

Total Flow Volume (cf)	Sample Aliquots	Total Sample Volume (L)	Sample ID

NOTES/COMMENTS

Field Data Log Sheet

Station ID FWL **Field Crew** CC JE **Date** 12/12/14

Event Wet Weather 1 Wet Weather 2 Dry Weather 1 **Time** 1215

Datum — **Latitude** 33. — **Longitude** -118. —

PHOTOS TAKEN: Upstream Downstream At Sample Intake Banks Equipment Storm Rainfall

ATMOSPHERIC CONDITIONS:

Weather	Sunny	Partly Cloudy	Overcast	Fog		
Last Rain	> 72 Hours	< 72 Hours	Currently Raining			

RUNOFF CHARACTERISTICS:

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	Other___	
Color	None	Yellow	Brown	White	Gray	Other___	
Clarity	Clear	Slightly Cloudy	Opaque	Other___			
Floatables	None	Trash	Bubbles/Foam	Sheen	Other___		
Deposits	None	Sediment/Gravel	Fine Particles	Stains	Oily Deposits	Other___	
Vegetation	None	Limited	Normal	Excessive	Other___		
Water Flow	Flowing	Ponded	Moist	Dry			

CURRENT CONDITIONS - Composite Monitoring Site:

Upon Arrival: Flow meter Running? Y N **Sampler Running?** Y N **Tubing Connected?** Y N

Level (in) ___ **Velocity (fps)** ___ **Flow (cfs)** ___

Total Flow (cf) ___ **# of Missed Samples** ___

Flow Meter Battery Voltage ___ **# of Successful Samples** ___

Sampler Battery Voltage ___ **Approx. Sample Volume (L)** ___

Upon Departure: Flow meter Running? Y N **Sampler Running?** Y N **Tubing Connected?** Y N

CURRENT CONDITIONS - Grab Sample Monitoring Site:

Estimated Flow (Machado Lake Overflow) **Velocity** ___ **Depth** ___ **Width** ___

Freshwater Lens Estimated Thickness 76" **Sample Depth** 6" EC ~350 us/cm

BOTTLE CHANGE:

Bottle 1	Bottle 2	Bottle 3	Bottle 4
Date	Date	Date	Date
Time	Time	Time	Time
Aliquot	Aliquot	Aliquot	Aliquot
Volume	Volume	Volume	Volume
Bottle ID	Bottle ID	Bottle ID	Bottle ID

POST STORM DATA:

Total Flow Volume (cf)	Sample Aliquots	Total Sample Volume (L)	Sample ID

NOTES/COMMENTS

Field Data Log Sheet

Station ID: DC   Field Crew: JR, CS, KG   Date: 12/12/2014

Event: Wet Weather 1 / Wet Weather 2 / Dry Weather 1   Time: ~~05:13~~ CS 04:25

Datum: ______   Latitude: 33.   Longitude: -118.

PHOTOS TAKEN: Upstream / Downstream / At Sample Intake / Banks / Equipment / Storm Rainfall

ATMOSPHERIC CONDITIONS:

Weather	Sunny	Partly Cloudy	Overcast	Fog		
Last Rain	> 72 Hours	< 72 Hours	Currently Raining			

RUNOFF CHARACTERISTICS:

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	None	Yellow	Brown	White	Gray	Other
Clarity	Clear	Slightly Cloudy	Opaque	Other		
Floatables	None	Trash	Bubbles/Foam	Sheen	Other Vegetative debris	
Deposits	None	Sediment/Gravel	Fine Particles	Stains	Oily Deposits	Other
Vegetation	None	Limited	Normal	Excessive	Other	
Water Flow	Flowing	Ponded	Moist	Dry		

CURRENT CONDITIONS - Composite Monitoring Site:

Upon Arrival: Flow meter Running? Y N   Sampler Running? Y N   Tubing Connected? Y N

Level (in): 81.7   Velocity (fps): ______   Flow (cfs): 3702

Total Flow (cf): 13,700,000   # of Missed Samples: ______

Flow Meter Battery Voltage: 12.7   # of Successful Samples: ______

Sampler Battery Voltage: ______   Approx. Sample Volume (L): ______

Upon Departure: Flow meter Running? Y N   Sampler Running? Y N   Tubing Connected? Y N

CURRENT CONDITIONS - Grab Sample Monitoring Site:

Estimated Flow (Machado Lake Overflow)   Velocity ______   Depth ______   Width ______

Freshwater Lens Estimated Thickness ______   Sample Depth ______

BOTTLE CHANGE:

	Bottle 1	Bottle 2	Bottle 3	Bottle 4
Date	12/12/2014	12/12/2014	12/12/2014	
Time	04:25	07:35	13:42	
Aliquot				
Volume	~19L	19 L	19L	
Bottle ID				

changed ~~Time~~ CS

POST STORM DATA:

Total Flow Volume (cf)	Sample Aliquots	Total Sample Volume (L)	Sample ID

NOTES/COMMENTS

Pacing started @ 300,000 cf
changed to 900,000 cf @ 04:25

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Field Data Log Sheet

Station ID DC- **Field Crew** JR, CS, KG **Date** 12/12/2014

Event Wet Weather 1 Wet Weather 2 Dry Weather 1 **Time** 05:30 - BRIDGE 06:40 - MES

Datum **Latitude** 33. **Longitude** -118.

PHOTOS TAKEN: Upstream Downstream At Sample Intake Banks Equipment Storm Rainfall

ATMOSPHERIC CONDITIONS:

Weather	Sunny	Partly Cloudy	Overcast	Fog		
Last Rain	> 72 Hours	< 72 Hours	Currently Raining			

RUNOFF CHARACTERISTICS:

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	None	Yellow	Brown	White	Gray	Other
Clarity	Clear	Slightly Cloudy	Opaque	Other		
Floatables	None	Trash	Bubbles/Foam	Sheen	Other Vegetation	
Deposits	None	Sediment/Gravel	Fine Particles	Stains	Oily Deposits	Other
Vegetation	None	Limited	Normal	Excessive	Other	
Water Flow	Flowing	Ponded	Moist	Dry		

CURRENT CONDITIONS - Composite Monitoring Site:

Upon Arrival: **Flow meter Running?** Y N **Sampler Running?** Y N **Tubing Connected?** Y N

Level (in) **Velocity (fps)** **Flow (cfs)**

Total Flow (cf) **# of Missed Samples**

Flow Meter Battery Voltage **# of Successful Samples**

Sampler Battery Voltage **Approx. Sample Volume (L)**

Upon Departure: **Flow meter Running?** Y N **Sampler Running?** Y N **Tubing Connected?** Y N

CURRENT CONDITIONS - Grab Sample Monitoring Site:

Estimated Flow (Machado Lake Overflow) **Velocity** **Depth** **Width**

Freshwater Lens Estimated Thickness **Sample Depth**

BOTTLE CHANGE:

Bottle 1	Bottle 2	Bottle 3	Bottle 4
Date	Date	Date	Date
Time	Time	Time	Time
Aliquot	Aliquot	Aliquot	Aliquot
Volume	Volume	Volume	Volume
Bottle ID	Bottle ID	Bottle ID	Bottle ID

POST STORM DATA:

Total Flow Volume (cf)	Sample Aliquots	Total Sample Volume (L)	Sample ID

NOTES/COMMENTS

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Field Data Log Sheet

Station ID TL **Field Crew** Bill Isham **Date** 12/12/14

Event Wet Weather 1 Wet Weather 2 Dry Weather 1 **Time** 0330

Datum ____ Latitude 33. Longitude -118.

PHOTOS TAKEN: Upstream Downstream At Sample Intake Banks Equipment Storm Rainfall

ATMOSPHERIC CONDITIONS:

Weather	Sunny	Partly Cloudy	Overcast	Fog		
Last Rain	> 72 Hours	< 72 Hours	Currently Raining			

RUNOFF CHARACTERISTICS:

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	Other____	
Color	None	Yellow	Brown	White	Gray	Other____	
Clarity	Clear	Slightly Cloudy	Opaque	Other____			
Floatables	None	Trash	Bubbles/Foam	Sheen	Other____		
Deposits	None	Sediment/Gravel	Fine Particles	Stains	Oily Deposits	Other____	
Vegetation	None	Limited	Normal	Excessive	Other____		
Water Flow	Flowing	Ponded	Moist	Dry			

CURRENT CONDITIONS - Composite Monitoring Site:

Upon Arrival: Flow meter Running? Y N Sampler Running? Y N Tubing Connected? Y N

Level (in) 23"-50+" **Velocity (fps)** ____ **Flow (cfs)** ____

Total Flow (cf) 75,000 **# of Missed Samples** ____

Flow Meter Battery Voltage ____ **# of Successful Samples** ____

Sampler Battery Voltage ____ **Approx. Sample Volume (L)** ____

Upon Departure: Flow meter Running? Y N Sampler Running? Y N Tubing Connected? Y N

CURRENT CONDITIONS - Grab Sample Monitoring Site:

Estimated Flow (Machado Lake Overflow) Velocity ____ Depth ____ Width ____

Freshwater Lens Estimated Thickness ____ **Sample Depth** ____

BOTTLE CHANGE:

Bottle 1	Bottle 2	Bottle 3	Bottle 4	5
Date 12/12/14	Date 12/12/14	Date 12/12/14	Date 12/12/14	12/12/14
Time 0352	Time 0422	Time 0610	Time 0930	1110
Aliquot	Aliquot	Aliquot	Aliquot	
Volume 20+	Volume 20	Volume 19	Volume 20	17
Bottle ID TL 1	Bottle ID TL 2	Bottle ID TL 3	Bottle ID TL 4	TL5

POST STORM DATA:

Total Flow Volume (cf)	Sample Aliquots	Total Sample Volume (L)	Sample ID

NOTES/COMMENTS

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Field Data Log Sheet

Station ID PLU **Field Crew** TW GM **Date** 04.07.15

Event Wet Weather 1 Wet Weather 2 Dry Weather 1 **Time** 2100

Datum **Latitude** 33. **Longitude** -118.

PHOTOS TAKEN: Upstream Downstream At Sample Intake Banks Equipment Storm Rainfall

ATMOSPHERIC CONDITIONS:

Weather	Sunny	Partly Cloudy	Overcast	Fog		
Last Rain	> 72 Hours	< 72 Hours	Currently Raining			

RUNOFF CHARACTERISTICS:

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	Other_____	
Color	None	Yellow	Brown	White	Gray	Other_____	
Clarity	Clear	Slightly Cloudy	Opaque	Other_____			
Floatables	None	Trash	Bubbles/Foam	Sheen	Other_____		
Deposits	None	Sediment/Gravel	Fine Particles	Stains	Oily Deposits	Other_____	
Vegetation	None	Limited	Normal	Excessive	Other_____		
Water Flow	Flowing	Ponded	Moist	Dry			

CURRENT CONDITIONS - Composite Monitoring Site:

Upon Arrival: **Flow meter Running?** Y N **Sampler Running?** Y N **Tubing Connected?** Y N

Level (in) ~2.0 **Velocity (fps)** ~.7 **Flow (cfs)** 0.2

Total Flow (cf) 300 **# of Missed Samples** Ø

Flow Meter Battery Voltage 12.0 **# of Successful Samples** 80+

Sampler Battery Voltage 12.5 **Approx. Sample Volume (L)** 80

Upon Departure: **Flow meter Running?** Y N **Sampler Running?** Y N **Tubing Connected?** Y N

CURRENT CONDITIONS - Grab Sample Monitoring Site:

Estimated Flow (Machado Lake Overflow) **Velocity** **Depth** **Width**

Freshwater Lens Estimated Thickness **Sample Depth**

BOTTLE CHANGE:

Bottle 1	Bottle 2	Bottle 3	Bottle 4
Date	Date	Date	Date
Time	Time	Time	Time
Aliquot	Aliquot	Aliquot	Aliquot
Volume	Volume	Volume	Volume
Bottle ID	Bottle ID	Bottle ID	Bottle ID

POST STORM DATA:

Total Flow Volume (cf)	Sample Aliquots	Total Sample Volume (L)	Sample ID
899	100	100	PLU

NOTES/COMMENTS

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APPENDIX F

FLOW DATA TABLES

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APPENDIX F.
FLOW DATA TABLES

Table F-1. Dry 1 DC Flow

Date and Time	Level (inches)	Flow (cfs)
2/18/2014 11:45	4.73	6.8
2/18/2014 11:50	4.81	7.0
2/18/2014 11:55	4.83	7.1
2/18/2014 12:00	4.88	7.2
2/18/2014 12:05	4.94	7.4
2/18/2014 12:10	4.97	7.4
2/18/2014 12:15	4.99	7.5
2/18/2014 12:20	5.00	7.5
2/18/2014 12:25	4.99	7.5
2/18/2014 12:30	4.96	7.4
2/18/2014 12:35	4.92	7.3
2/18/2014 12:40	4.87	7.2
2/18/2014 12:45	4.86	7.1
2/18/2014 12:50	4.86	7.1
2/18/2014 12:55	4.81	7.0
2/18/2014 13:00	4.82	7.1
2/18/2014 13:05	4.79	7.0
2/18/2014 13:10	4.81	7.0
2/18/2014 13:15	4.81	7.0
2/18/2014 13:20	4.79	7.0
2/18/2014 13:25	4.81	7.0
2/18/2014 13:30	4.78	7.0
2/18/2014 13:35	4.77	6.9
2/18/2014 13:40	4.73	6.8
2/18/2014 13:45	4.71	6.8
2/18/2014 13:50	4.69	6.7
2/18/2014 13:55	4.70	6.7
2/18/2014 14:00	4.69	6.7
2/18/2014 14:05	4.70	6.7
2/18/2014 14:10	4.70	6.8
2/18/2014 14:15	4.70	6.8
2/18/2014 14:20	4.69	6.7
2/18/2014 14:25	4.68	6.7
2/18/2014 14:30	4.67	6.7
2/18/2014 14:35	4.66	6.7
2/18/2014 14:40	4.70	6.8
2/18/2014 14:45	5.03	7.6
2/18/2014 14:50	5.26	8.1
2/18/2014 14:55	5.12	7.8
2/18/2014 15:00	4.99	7.5
2/18/2014 15:05	4.83	7.1

Date and Time	Level (inches)	Flow (cfs)
2/18/2014 15:10	4.74	6.8
2/18/2014 15:15	4.66	6.7
2/18/2014 15:20	4.64	6.6
2/18/2014 15:25	4.62	6.5
2/18/2014 15:30	4.57	6.4
2/18/2014 15:35	4.55	6.4
2/18/2014 15:40	4.51	6.3
2/18/2014 15:45	4.52	6.3
2/18/2014 15:50	4.52	6.3
2/18/2014 15:55	4.48	6.2
2/18/2014 16:00	4.47	6.2
2/18/2014 16:05	4.46	6.1
2/18/2014 16:10	4.45	6.1
2/18/2014 16:15	4.46	6.1
2/18/2014 16:20	4.45	6.1
2/18/2014 16:25	4.44	6.1
2/18/2014 16:30	4.44	6.1
2/18/2014 16:35	4.47	6.2
2/18/2014 16:40	4.46	6.1
2/18/2014 16:45	4.43	6.1
2/18/2014 16:50	4.47	6.2
2/18/2014 16:55	4.45	6.1
2/18/2014 17:00	4.48	6.2
2/18/2014 17:05	4.43	6.1
2/18/2014 17:10	4.40	6.0
2/18/2014 17:15	4.41	6.0
2/18/2014 17:20	4.39	6.0
2/18/2014 17:25	4.35	5.9
2/18/2014 17:30	4.33	5.8
2/18/2014 17:35	4.36	5.9
2/18/2014 17:40	4.33	5.8
2/18/2014 17:45	4.29	5.7
2/18/2014 17:50	4.29	5.7
2/18/2014 17:55	4.25	5.6
2/18/2014 18:00	4.23	5.6
2/18/2014 18:05	4.23	5.6
2/18/2014 18:10	4.23	5.6
2/18/2014 18:15	4.21	5.5
2/18/2014 18:20	4.21	5.5
2/18/2014 18:25	4.15	5.4
2/18/2014 18:30	4.15	5.4
2/18/2014 18:35	4.18	5.4
2/18/2014 18:40	4.18	5.5
2/18/2014 18:45	4.26	5.7
2/18/2014 18:50	4.29	5.7

Date and Time	Level (inches)	Flow (cfs)
2/18/2014 18:55	4.30	5.8
2/18/2014 19:00	4.35	5.9
2/18/2014 19:05	4.36	5.9
2/18/2014 19:10	4.35	5.9
2/18/2014 19:15	4.35	5.9
2/18/2014 19:20	4.34	5.8
2/18/2014 19:25	4.32	5.8
2/18/2014 19:30	4.32	5.8
2/18/2014 19:35	4.29	5.7
2/18/2014 19:40	4.29	5.7
2/18/2014 19:45	4.24	5.6
2/18/2014 19:50	4.22	5.5
2/18/2014 19:55	4.19	5.5
2/18/2014 20:00	4.18	5.4
2/18/2014 20:05	4.17	5.4
2/18/2014 20:10	4.20	5.5
2/18/2014 20:15	4.17	5.4
2/18/2014 20:20	4.17	5.4
2/18/2014 20:25	4.16	5.4
2/18/2014 20:30	4.18	5.4
2/18/2014 20:35	4.15	5.4
2/18/2014 20:40	4.16	5.4
2/18/2014 20:45	4.18	5.4
2/18/2014 20:50	4.21	5.5
2/18/2014 20:55	4.22	5.5
2/18/2014 21:00	4.18	5.4
2/18/2014 21:05	4.12	5.3
2/18/2014 21:10	4.15	5.4
2/18/2014 21:15	4.12	5.3
2/18/2014 21:20	4.11	5.3
2/18/2014 21:25	4.11	5.3
2/18/2014 21:30	4.09	5.2
2/18/2014 21:35	4.13	5.3
2/18/2014 21:40	4.13	5.3
2/18/2014 21:45	4.15	5.4
2/18/2014 21:50	4.17	5.4
2/18/2014 21:55	4.17	5.4
2/18/2014 22:00	4.15	5.4
2/18/2014 22:05	4.15	5.4
2/18/2014 22:10	4.12	5.3
2/18/2014 22:15	4.12	5.3
2/18/2014 22:20	4.11	5.3
2/18/2014 22:25	4.12	5.3
2/18/2014 22:30	4.08	5.2
2/18/2014 22:35	4.10	5.2

Date and Time	Level (inches)	Flow (cfs)
2/18/2014 22:40	4.10	5.2
2/18/2014 22:45	4.09	5.2
2/18/2014 22:50	4.11	5.3
2/18/2014 22:55	4.52	6.3
2/18/2014 23:00	5.32	8.3
2/18/2014 23:05	5.81	9.5
2/18/2014 23:10	5.85	9.6
2/18/2014 23:15	5.77	9.4
2/18/2014 23:20	5.70	9.3
2/18/2014 23:25	5.69	9.2
2/18/2014 23:30	5.62	9.0
2/18/2014 23:35	5.56	8.9
2/18/2014 23:40	5.54	8.8
2/18/2014 23:45	5.52	8.8
2/18/2014 23:50	5.45	8.6
2/18/2014 23:55	5.42	8.5
2/19/2014 0:00	5.39	8.5
2/19/2014 0:05	5.36	8.4
2/19/2014 0:10	5.34	8.4
2/19/2014 0:15	5.31	8.3
2/19/2014 0:20	5.26	8.1
2/19/2014 0:25	5.27	8.2
2/19/2014 0:30	5.23	8.1
2/19/2014 0:35	5.20	8.0
2/19/2014 0:40	5.16	7.9
2/19/2014 0:45	5.14	7.8
2/19/2014 0:50	5.10	7.7
2/19/2014 0:55	5.07	7.7
2/19/2014 1:00	5.08	7.7
2/19/2014 1:05	5.04	7.6
2/19/2014 1:10	5.01	7.5
2/19/2014 1:15	4.97	7.4
2/19/2014 1:20	4.93	7.3
2/19/2014 1:25	4.93	7.3
2/19/2014 1:30	4.89	7.2
2/19/2014 1:35	4.89	7.2
2/19/2014 1:40	4.87	7.2
2/19/2014 1:45	4.84	7.1
2/19/2014 1:50	4.83	7.1
2/19/2014 1:55	4.80	7.0
2/19/2014 2:00	4.77	6.9
2/19/2014 2:05	4.75	6.9
2/19/2014 2:10	4.75	6.9
2/19/2014 2:15	4.71	6.8
2/19/2014 2:20	4.67	6.7

Date and Time	Level (inches)	Flow (cfs)
2/19/2014 2:25	4.68	6.7
2/19/2014 2:30	4.64	6.6
2/19/2014 2:35	4.62	6.5
2/19/2014 2:40	4.60	6.5
2/19/2014 2:45	4.60	6.5
2/19/2014 2:50	4.57	6.4
2/19/2014 2:55	4.58	6.4
2/19/2014 3:00	4.56	6.4
2/19/2014 3:05	4.57	6.4
2/19/2014 3:10	4.57	6.4
2/19/2014 3:15	4.58	6.5
2/19/2014 3:20	4.57	6.4
2/19/2014 3:25	4.58	6.4
2/19/2014 3:30	4.58	6.4
2/19/2014 3:35	4.55	6.4
2/19/2014 3:40	4.55	6.4
2/19/2014 3:45	4.57	6.4
2/19/2014 3:50	4.57	6.4
2/19/2014 3:55	4.57	6.4
2/19/2014 4:00	4.54	6.4
2/19/2014 4:05	4.58	6.5
2/19/2014 4:10	4.60	6.5
2/19/2014 4:15	4.63	6.6
2/19/2014 4:20	4.64	6.6
2/19/2014 4:25	4.69	6.7
2/19/2014 4:30	4.68	6.7
2/19/2014 4:35	4.66	6.7
2/19/2014 4:40	4.67	6.7
2/19/2014 4:45	4.64	6.6
2/19/2014 4:50	4.64	6.6
2/19/2014 4:55	4.64	6.6
2/19/2014 5:00	4.64	6.6
2/19/2014 5:05	4.65	6.6
2/19/2014 5:10	4.69	6.7
2/19/2014 5:15	4.66	6.7
2/19/2014 5:20	4.68	6.7
2/19/2014 5:25	4.64	6.6
2/19/2014 5:30	4.64	6.6
2/19/2014 5:35	4.64	6.6
2/19/2014 5:40	4.65	6.6
2/19/2014 5:45	4.64	6.6
2/19/2014 5:50	4.65	6.6
2/19/2014 5:55	4.68	6.7
2/19/2014 6:00	4.68	6.7
2/19/2014 6:05	4.66	6.7

Date and Time	Level (inches)	Flow (cfs)
2/19/2014 6:10	4.62	6.5
2/19/2014 6:15	4.61	6.5
2/19/2014 6:20	4.62	6.5
2/19/2014 6:25	4.58	6.5
2/19/2014 6:30	4.59	6.5
2/19/2014 6:35	4.60	6.5
2/19/2014 6:40	4.56	6.4
2/19/2014 6:45	4.56	6.4
2/19/2014 6:50	4.55	6.4
2/19/2014 6:55	4.55	6.4
2/19/2014 7:00	4.50	6.2
2/19/2014 7:05	4.53	6.3
2/19/2014 7:10	4.50	6.2
2/19/2014 7:15	4.43	6.1
2/19/2014 7:20	4.45	6.1
2/19/2014 7:25	4.47	6.2
2/19/2014 7:30	4.46	6.1
2/19/2014 7:35	4.40	6.0
2/19/2014 7:40	4.39	6.0
2/19/2014 7:45	4.35	5.9
2/19/2014 7:50	4.34	5.8
2/19/2014 7:55	4.35	5.9
2/19/2014 8:00	4.34	5.8
2/19/2014 8:05	4.34	5.8
2/19/2014 8:10	4.32	5.8
2/19/2014 8:15	4.31	5.8
2/19/2014 8:20	4.30	5.8
2/19/2014 8:25	4.31	5.8
2/19/2014 8:30	4.31	5.8
2/19/2014 8:35	4.35	5.9
2/19/2014 8:40	4.36	5.9
2/19/2014 8:45	4.38	5.9
2/19/2014 8:50	4.45	6.1
2/19/2014 8:55	4.49	6.2
2/19/2014 9:00	4.52	6.3
2/19/2014 9:05	4.55	6.4
2/19/2014 9:10	4.54	6.4
2/19/2014 9:15	4.53	6.3
2/19/2014 9:20	4.51	6.3
2/19/2014 9:25	4.51	6.3
2/19/2014 9:30	4.49	6.2
2/19/2014 9:35	4.46	6.1
2/19/2014 9:40	4.43	6.1
2/19/2014 9:45	4.40	6.0
2/19/2014 9:50	4.42	6.1

Date and Time	Level (inches)	Flow (cfs)
2/19/2014 9:55	4.42	6.1
2/19/2014 10:00	4.47	6.2
2/19/2014 10:05	4.48	6.2
2/19/2014 10:10	4.55	6.4
2/19/2014 10:15	4.64	6.6
2/19/2014 10:20	4.66	6.7
2/19/2014 10:25	4.70	6.7
2/19/2014 10:30	4.74	6.8
2/19/2014 10:35	4.78	7.0
2/19/2014 10:40	4.79	7.0
2/19/2014 10:45	4.81	7.0
2/19/2014 10:50	4.81	7.0
2/19/2014 10:55	4.80	7.0
2/19/2014 11:00	4.78	7.0
2/19/2014 11:05	4.78	7.0
2/19/2014 11:10	4.77	6.9
2/19/2014 11:15	4.78	7.0
2/19/2014 11:20	4.75	6.9
2/19/2014 11:25	4.75	6.9
2/19/2014 11:30	4.75	6.9
2/19/2014 11:35	4.76	6.9
2/19/2014 11:40	4.75	6.9
2/19/2014 11:45	4.74	6.8
2/19/2014 11:50	4.68	6.7

Table F-2. Dry 1 LAR Flow

Date and Time	Level (inches)	Flow (cfs)
2/18/2014 10:00	18.936	275.17
2/18/2014 10:05	18.923	273.87
2/18/2014 10:10	18.974	279.07
2/18/2014 10:15	18.923	273.87
2/18/2014 10:20	23.313	273.04
2/18/2014 10:25	18.906	272.13
2/18/2014 10:30	18.915	273.00
2/18/2014 10:35	18.966	278.20
2/18/2014 10:40	18.949	276.47
2/18/2014 10:45	18.923	273.87
2/18/2014 10:50	18.864	267.80
2/18/2014 10:55	18.932	274.73
2/18/2014 11:00	18.889	270.40
2/18/2014 11:05	18.906	272.13
2/18/2014 11:10	18.932	274.73
2/18/2014 11:15	18.932	274.73
2/18/2014 11:20	18.915	273.00
2/18/2014 11:25	18.932	274.73
2/18/2014 11:30	18.923	273.87
2/18/2014 11:35	18.932	274.73
2/18/2014 11:40	18.94	275.60
2/18/2014 11:45	18.949	276.47
2/18/2014 11:50	18.932	274.73
2/18/2014 11:55	18.974	279.07
2/18/2014 12:00	18.949	276.47
2/18/2014 12:05	18.957	277.33
2/18/2014 12:10	18.991	280.80
2/18/2014 12:15	18.991	280.80
2/18/2014 12:20	18.983	279.93
2/18/2014 12:25	18.983	279.93
2/18/2014 12:30	19.009	282.53
2/18/2014 12:35	19	281.67
2/18/2014 12:40	18.983	279.93
2/18/2014 12:45	18.974	279.07
2/18/2014 12:50	19.017	283.40
2/18/2014 12:55	19.034	285.13
2/18/2014 13:00	19.017	283.40
2/18/2014 13:05	19.034	285.13
2/18/2014 13:10	19.017	283.40
2/18/2014 13:15	19.017	283.40
2/18/2014 13:20	18.991	280.80
2/18/2014 13:25	19.017	283.40
2/18/2014 13:30	19	281.67
2/18/2014 13:35	18.966	278.20

Date and Time	Level (inches)	Flow (cfs)
2/18/2014 13:40	19	281.67
2/18/2014 13:45	18.983	279.93
2/18/2014 13:50	18.991	280.80
2/18/2014 13:55	18.974	279.07
2/18/2014 14:00	19.009	282.53
2/18/2014 14:05	18.974	279.07
2/18/2014 14:10	18.974	279.07
2/18/2014 14:15	18.966	278.20
2/18/2014 14:20	18.983	279.93
2/18/2014 14:25	18.974	279.07
2/18/2014 14:30	19.009	282.53
2/18/2014 14:35	18.974	279.07
2/18/2014 14:40	18.966	278.20
2/18/2014 14:45	18.957	277.33
2/18/2014 14:50	18.923	273.87
2/18/2014 14:55	18.94	275.60
2/18/2014 15:00	18.923	273.87
2/18/2014 15:05	18.94	275.60
2/18/2014 15:10	18.932	274.73
2/18/2014 15:15	18.932	274.73
2/18/2014 15:20	18.923	273.87
2/18/2014 15:25	18.889	270.40
2/18/2014 15:30	18.94	275.60
2/18/2014 15:35	18.932	274.73
2/18/2014 15:40	18.923	273.87
2/18/2014 15:45	18.923	273.87
2/18/2014 15:50	18.932	274.73
2/18/2014 15:55	18.923	273.87
2/18/2014 16:00	18.872	268.67
2/18/2014 16:05	18.864	267.80
2/18/2014 16:10	18.915	273.00
2/18/2014 16:15	18.881	269.53
2/18/2014 16:20	18.881	269.53
2/18/2014 16:25	18.855	266.94
2/18/2014 16:30	18.847	266.07
2/18/2014 16:35	18.812	262.60
2/18/2014 16:40	18.77	258.27
2/18/2014 16:45	18.821	263.47
2/18/2014 16:50	18.804	261.74
2/18/2014 16:55	18.812	262.60
2/18/2014 17:00	18.804	261.74
2/18/2014 17:05	18.778	259.14
2/18/2014 17:10	18.685	249.60
2/18/2014 17:15	18.719	253.07
2/18/2014 17:20	18.719	253.07

Date and Time	Level (inches)	Flow (cfs)
2/18/2014 17:25	18.744	255.67
2/18/2014 17:30	18.753	256.54
2/18/2014 17:35	18.736	254.80
2/18/2014 17:40	18.736	254.80
2/18/2014 17:45	18.727	253.94
2/18/2014 17:50	18.719	253.07
2/18/2014 17:55	18.676	248.74
2/18/2014 18:00	18.693	250.47
2/18/2014 18:05	18.668	247.87
2/18/2014 18:10	18.651	246.14
2/18/2014 18:15	18.642	245.27
2/18/2014 18:20	18.642	245.27
2/18/2014 18:25	18.633	244.40
2/18/2014 18:30	18.642	245.27
2/18/2014 18:35	18.616	242.67
2/18/2014 18:40	18.608	241.80
2/18/2014 18:45	18.608	241.80
2/18/2014 18:50	18.565	237.47
2/18/2014 18:55	18.54	234.87
2/18/2014 19:00	18.557	236.60
2/18/2014 19:05	18.548	235.74
2/18/2014 19:10	18.523	233.14
2/18/2014 19:15	18.548	235.74
2/18/2014 19:20	18.548	235.74
2/18/2014 19:25	18.523	233.14
2/18/2014 19:30	18.557	236.60
2/18/2014 19:35	18.548	235.74
2/18/2014 19:40	18.531	234.00
2/18/2014 19:45	18.523	233.14
2/18/2014 19:50	18.514	232.27
2/18/2014 19:55	18.48	228.80
2/18/2014 20:00	18.506	231.40
2/18/2014 20:05	18.497	230.54
2/18/2014 20:10	18.489	229.67
2/18/2014 20:15	18.463	227.07
2/18/2014 20:20	18.437	224.47
2/18/2014 20:25	18.437	224.47
2/18/2014 20:30	18.446	225.34
2/18/2014 20:35	18.429	223.60
2/18/2014 20:40	18.429	223.60
2/18/2014 20:45	18.42	222.74
2/18/2014 20:50	18.403	221.00
2/18/2014 20:55	18.395	220.14
2/18/2014 21:00	18.386	219.27
2/18/2014 21:05	18.378	218.41

Date and Time	Level (inches)	Flow (cfs)
2/18/2014 21:10	18.378	218.41
2/18/2014 21:15	18.378	218.41
2/18/2014 21:20	18.369	217.54
2/18/2014 21:25	18.344	214.94
2/18/2014 21:30	18.361	216.67
2/18/2014 21:35	18.352	215.81
2/18/2014 21:40	18.361	216.67
2/18/2014 21:45	18.352	215.81
2/18/2014 21:50	18.344	214.94
2/18/2014 21:55	18.344	214.94
2/18/2014 22:00	18.335	214.07
2/18/2014 22:05	18.352	215.81
2/18/2014 22:10	18.335	214.07
2/18/2014 22:15	18.335	214.07
2/18/2014 22:20	18.327	213.21
2/18/2014 22:25	18.31	211.47
2/18/2014 22:30	18.31	211.47
2/18/2014 22:35	18.301	210.61
2/18/2014 22:40	18.301	210.61
2/18/2014 22:45	18.31	211.47
2/18/2014 22:50	18.293	209.74
2/18/2014 22:55	18.293	209.74
2/18/2014 23:00	18.293	209.74
2/18/2014 23:05	18.293	209.74
2/18/2014 23:10	18.216	201.94
2/18/2014 23:15	18.301	210.61
2/18/2014 23:20	18.31	211.47
2/18/2014 23:25	18.301	210.61
2/18/2014 23:30	18.301	210.61
2/18/2014 23:35	18.293	209.74
2/18/2014 23:40	18.31	211.47
2/18/2014 23:45	18.31	211.47
2/18/2014 23:50	18.318	212.34
2/18/2014 23:55	18.318	212.34
2/19/2014 0:00	18.335	214.07
2/19/2014 0:05	18.352	215.81
2/19/2014 0:10	18.395	220.14
2/19/2014 0:15	18.395	220.14
2/19/2014 0:20	18.395	220.14
2/19/2014 0:25	18.395	220.14
2/19/2014 0:30	18.412	221.87
2/19/2014 0:35	18.463	227.07
2/19/2014 0:40	18.454	226.20
2/19/2014 0:45	18.463	227.07
2/19/2014 0:50	18.463	227.07

Date and Time	Level (inches)	Flow (cfs)
2/19/2014 0:55	18.497	230.54
2/19/2014 1:00	18.523	233.14
2/19/2014 1:05	18.54	234.87
2/19/2014 1:10	18.531	234.00
2/19/2014 1:15	18.531	234.00
2/19/2014 1:20	18.54	234.87
2/19/2014 1:25	18.523	233.14
2/19/2014 1:30	18.548	235.74
2/19/2014 1:35	18.54	234.87
2/19/2014 1:40	18.531	234.00
2/19/2014 1:45	18.506	231.40
2/19/2014 1:50	18.523	233.14
2/19/2014 1:55	18.506	231.40
2/19/2014 2:00	18.514	232.27
2/19/2014 2:05	18.497	230.54
2/19/2014 2:10	18.514	232.27
2/19/2014 2:15	18.514	232.27
2/19/2014 2:20	18.506	231.40
2/19/2014 2:25	18.531	234.00
2/19/2014 2:30	18.506	231.40
2/19/2014 2:35	18.514	232.27
2/19/2014 2:40	18.531	234.00
2/19/2014 2:45	18.54	234.87
2/19/2014 2:50	18.54	234.87
2/19/2014 2:55	18.548	235.74
2/19/2014 3:00	18.548	235.74
2/19/2014 3:05	18.548	235.74
2/19/2014 3:10	18.574	238.34
2/19/2014 3:15	18.574	238.34
2/19/2014 3:20	18.599	240.94
2/19/2014 3:25	18.625	243.54
2/19/2014 3:30	18.633	244.40
2/19/2014 3:35	18.633	244.40
2/19/2014 3:40	18.668	247.87
2/19/2014 3:45	18.659	247.00
2/19/2014 3:50	18.702	251.34
2/19/2014 3:55	18.719	253.07
2/19/2014 4:00	18.719	253.07
2/19/2014 4:05	18.71	252.20
2/19/2014 4:10	18.77	258.27
2/19/2014 4:15	18.761	257.40
2/19/2014 4:20	18.804	261.74
2/19/2014 4:25	18.804	261.74
2/19/2014 4:30	18.804	261.74
2/19/2014 4:35	18.847	266.07

Date and Time	Level (inches)	Flow (cfs)
2/19/2014 4:40	18.881	269.53
2/19/2014 4:45	18.881	269.53
2/19/2014 4:50	18.923	273.87
2/19/2014 4:55	18.923	273.87
2/19/2014 5:00	18.949	276.47
2/19/2014 5:05	18.966	278.20
2/19/2014 5:10	19	281.67
2/19/2014 5:15	19.009	282.53
2/19/2014 5:20	19.017	283.40
2/19/2014 5:25	19.051	286.87
2/19/2014 5:30	19.077	289.47
2/19/2014 5:35	19.085	290.33
2/19/2014 5:40	19.111	292.93
2/19/2014 5:45	19.111	292.93
2/19/2014 5:50	19.119	293.80
2/19/2014 5:55	19.119	293.80
2/19/2014 6:00	19.136	295.53
2/19/2014 6:05	19.145	296.40
2/19/2014 6:10	19.085	290.33
2/19/2014 6:15	19.205	302.47
2/19/2014 6:20	19.188	300.73
2/19/2014 6:25	19.196	301.60
2/19/2014 6:30	19.23	305.07
2/19/2014 6:35	19.23	305.07
2/19/2014 6:40	19.222	304.20
2/19/2014 6:45	19.23	305.07
2/19/2014 6:50	19.239	305.93
2/19/2014 6:55	19.239	305.93
2/19/2014 7:00	19.23	305.07
2/19/2014 7:05	19.239	305.93
2/19/2014 7:10	19.239	305.93
2/19/2014 7:15	19.247	306.80
2/19/2014 7:20	19.222	304.20
2/19/2014 7:25	19.23	305.07
2/19/2014 7:30	19.222	304.20
2/19/2014 7:35	19.23	305.07
2/19/2014 7:40	19.239	305.93
2/19/2014 7:45	19.213	303.33
2/19/2014 7:50	19.188	300.73
2/19/2014 7:55	19.205	302.47
2/19/2014 8:00	19.205	302.47
2/19/2014 8:05	19.188	300.73
2/19/2014 8:10	19.188	300.73
2/19/2014 8:15	19.188	300.73
2/19/2014 8:20	19.17	299.00

Date and Time	Level (inches)	Flow (cfs)
2/19/2014 8:25	19.162	298.13
2/19/2014 8:30	19.136	295.53
2/19/2014 8:35	19.153	297.27
2/19/2014 8:40	19.153	297.27
2/19/2014 8:45	19.102	292.07
2/19/2014 8:50	19.111	292.93
2/19/2014 8:55	19.102	292.07
2/19/2014 9:00	19.128	294.67
2/19/2014 9:05	19.068	288.60
2/19/2014 9:10	19.085	290.33
2/19/2014 9:15	19.068	288.60
2/19/2014 9:20	19.077	289.47
2/19/2014 9:25	19.102	292.07
2/19/2014 9:30	19.085	290.33
2/19/2014 9:35	19.094	291.20
2/19/2014 9:40	19.06	287.73
2/19/2014 9:45	19.085	290.33
2/19/2014 9:50	19.085	290.33
2/19/2014 9:55	19.051	286.87
2/19/2014 10:00	19.051	286.87
2/19/2014 10:05	19.06	287.73
2/19/2014 10:10	19.085	290.33
2/19/2014 10:15	19.111	292.93
2/19/2014 10:20	19.094	291.20
2/19/2014 10:25	19.111	292.93
2/19/2014 10:30	19.136	295.53
2/19/2014 10:35	19.145	296.40
2/19/2014 10:40	19.06	287.73

Table F-3. Storm 1 DC Flow

Date and Time	Level (inches)	Flow (cfs)
2/27/2014 0:00	4.286	5.71
2/27/2014 0:05	4.251	5.63
2/27/2014 0:10	4.277	5.69
2/27/2014 0:15	4.277	5.69
2/27/2014 0:20	4.277	5.69
2/27/2014 0:25	4.303	5.76
2/27/2014 0:30	4.294	5.74
2/27/2014 0:35	4.311	5.78
2/27/2014 0:40	4.294	5.74
2/27/2014 0:45	4.328	5.82
2/27/2014 0:50	4.303	5.76
2/27/2014 0:55	4.405	6.01
2/27/2014 1:00	4.618	6.55
2/27/2014 1:05	6.135	10.34
2/27/2014 1:10	9.775	22.73
2/27/2014 1:15	12.332	34.94
2/27/2014 1:20	13.602	42.35
2/27/2014 1:25	15.102	51.10
2/27/2014 1:30	17.259	66.06
2/27/2014 1:35	19.45	83.19
2/27/2014 1:40	26.158	150.28
2/27/2014 1:45	33.719	252.98
2/27/2014 1:50	40.836	530.45
2/27/2014 1:55	45.559	624.86
2/27/2014 2:00	53.563	1,017.45
2/27/2014 2:05	58.353	1,354.42
2/27/2014 2:10	60.271	1,496.62
2/27/2014 2:15	60.177	1,488.45
2/27/2014 2:20	59.708	1,452.01
2/27/2014 2:25	57.535	1,295.50
2/27/2014 2:30	55.489	1,148.21
2/27/2014 2:35	55.719	1,164.78
2/27/2014 2:40	54.85	1,102.18
2/27/2014 2:45	54.1	1,048.17
2/27/2014 2:50	53.759	1,028.01
2/27/2014 2:55	54.066	1,045.72
2/27/2014 3:00	53.827	1,031.68
2/27/2014 3:05	54.713	1,092.36
2/27/2014 3:10	54.918	1,107.09
2/27/2014 3:15	55.088	1,119.37
2/27/2014 3:20	54.543	1,080.09
2/27/2014 3:25	54.517	1,078.25
2/27/2014 3:30	54.5	1,077.02
2/27/2014 3:35	52.915	982.58

Date and Time	Level (inches)	Flow (cfs)
2/27/2014 3:40	52.608	966.06
2/27/2014 3:45	52.599	965.60
2/27/2014 3:50	52.369	953.21
2/27/2014 3:55	52.676	969.73
2/27/2014 4:00	52.591	965.14
2/27/2014 4:05	52.241	946.33
2/27/2014 4:10	51.636	913.75
2/27/2014 4:15	51.201	890.35
2/27/2014 4:20	50.149	833.68
2/27/2014 4:25	50.243	838.76
2/27/2014 4:30	50.136	832.99
2/27/2014 4:35	49.786	814.17
2/27/2014 4:40	49.301	788.02
2/27/2014 4:45	48.977	770.58
2/27/2014 4:50	48.231	730.43
2/27/2014 4:55	48.094	723.05
2/27/2014 5:00	46.871	674.73
2/27/2014 5:05	46.846	673.75
2/27/2014 5:10	46.121	645.98
2/27/2014 5:15	45.184	614.55
2/27/2014 5:20	44.45	594.39
2/27/2014 5:25	43.948	580.56
2/27/2014 5:30	42.695	553.68
2/27/2014 5:35	41.902	543.77
2/27/2014 5:40	41.305	536.31
2/27/2014 5:45	40.606	519.91
2/27/2014 5:50	40.078	492.38
2/27/2014 5:55	39.311	452.42
2/27/2014 6:00	39.634	469.30
2/27/2014 6:05	39.251	449.32
2/27/2014 6:10	39.114	442.21
2/27/2014 6:15	38.381	404.12
2/27/2014 6:20	38.364	403.31
2/27/2014 6:25	38.682	419.67
2/27/2014 6:30	38.439	407.03
2/27/2014 6:35	38.219	396.43
2/27/2014 6:40	38.313	400.88
2/27/2014 6:45	38.347	402.50
2/27/2014 6:50	37.844	378.61
2/27/2014 6:55	37.751	374.16
2/27/2014 7:00	36.89	333.26
2/27/2014 7:05	35.875	288.92
2/27/2014 7:10	34.665	268.75
2/27/2014 7:15	35.321	279.69
2/27/2014 7:20	35.219	277.98

Date and Time	Level (inches)	Flow (cfs)
2/27/2014 7:25	34.81	271.17
2/27/2014 7:30	34.512	266.19
2/27/2014 7:35	32.943	241.15
2/27/2014 7:40	32.099	228.49
2/27/2014 7:45	31.392	217.88
2/27/2014 7:50	31.264	215.96
2/27/2014 7:55	30.258	202.44
2/27/2014 8:00	27.556	167.45
2/27/2014 8:05	25.766	145.87
2/27/2014 8:10	24.453	131.10
2/27/2014 8:15	23.652	122.52
2/27/2014 8:20	22.706	113.06
2/27/2014 8:25	22.118	107.18
2/27/2014 8:30	21.53	101.38
2/27/2014 8:35	20.711	94.22
2/27/2014 8:40	20.217	89.90
2/27/2014 8:45	19.62	84.68
2/27/2014 8:50	18.827	77.90
2/27/2014 8:55	18.521	75.34
2/27/2014 9:00	18.094	71.79
2/27/2014 9:05	17.574	68.16
2/27/2014 9:10	17.276	66.17
2/27/2014 9:15	16.969	64.13
2/27/2014 9:20	16.594	61.46
2/27/2014 9:25	16.279	59.09
2/27/2014 9:30	15.963	56.73
2/27/2014 9:35	15.81	55.58
2/27/2014 9:40	15.648	54.36
2/27/2014 9:45	15.299	52.24
2/27/2014 9:50	15.162	51.45
2/27/2014 9:55	14.796	49.31
2/27/2014 10:00	14.727	48.91
2/27/2014 10:05	14.446	47.27
2/27/2014 10:10	14.003	44.68
2/27/2014 10:15	14.037	44.88
2/27/2014 10:20	13.832	43.69
2/27/2014 10:25	13.466	41.55
2/27/2014 10:30	13.278	40.46
2/27/2014 10:35	13.031	39.02
2/27/2014 10:40	13.023	38.97
2/27/2014 10:45	12.835	37.87
2/27/2014 10:50	12.622	36.63
2/27/2014 10:55	12.537	36.13
2/27/2014 11:00	12.281	34.64
2/27/2014 11:05	12.042	33.25

Date and Time	Level (inches)	Flow (cfs)
2/27/2014 11:10	12.051	33.30
2/27/2014 11:15	12.136	33.79
2/27/2014 11:20	12.042	33.25
2/27/2014 11:25	11.761	31.81
2/27/2014 11:30	11.863	32.32
2/27/2014 11:35	11.48	30.40
2/27/2014 11:40	11.403	30.02
2/27/2014 11:45	11.198	28.99
2/27/2014 11:50	11.045	28.23
2/27/2014 11:55	10.994	27.97

Table F-4. Storm 1 LAR Flow

Date and Time	Level (inches)	Flow (cfs)
2/27/2014 0:00	18.90	271.27
2/27/2014 0:05	18.89	270.40
2/27/2014 0:10	18.91	272.13
2/27/2014 0:15	18.92	273.00
2/27/2014 0:20	18.91	272.13
2/27/2014 0:25	18.90	271.27
2/27/2014 0:30	18.91	272.13
2/27/2014 0:35	18.88	269.53
2/27/2014 0:40	18.92	273.87
2/27/2014 0:45	18.88	269.53
2/27/2014 0:50	18.86	267.80
2/27/2014 0:55	18.89	270.40
2/27/2014 1:00	18.80	260.87
2/27/2014 1:05	18.95	276.47
2/27/2014 1:10	18.97	279.07
2/27/2014 1:15	19.00	281.67
2/27/2014 1:20	18.97	278.20
2/27/2014 1:25	19.07	288.60
2/27/2014 1:30	19.17	299.00
2/27/2014 1:35	19.34	316.33
2/27/2014 1:40	19.42	324.13
2/27/2014 1:45	19.34	316.33
2/27/2014 1:50	19.55	337.13
2/27/2014 1:55	19.29	311.13
2/27/2014 2:00	19.33	315.46
2/27/2014 2:05	19.20	301.60
2/27/2014 2:10	19.16	298.13
2/27/2014 2:15	19.20	301.60
2/27/2014 2:20	19.34	316.33
2/27/2014 2:25	19.50	332.80
2/27/2014 2:30	23.71	760.03
2/27/2014 2:35	19.51	333.66
2/27/2014 2:40	19.55	337.13
2/27/2014 2:45	19.43	325.00
2/27/2014 2:50	19.30	312.00
2/27/2014 2:55	19.31	312.86
2/27/2014 3:00	19.31	312.86
2/27/2014 3:05	19.28	310.26
2/27/2014 3:10	23.45	734.03
2/27/2014 3:15	23.52	740.97
2/27/2014 3:20	19.31	312.86
2/27/2014 3:25	19.32	313.73
2/27/2014 3:30	19.25	306.80
2/27/2014 3:35	19.31	312.86

Date and Time	Level (inches)	Flow (cfs)
2/27/2014 3:40	19.47	329.33
2/27/2014 3:45	19.52	334.53
2/27/2014 3:50	19.52	334.53
2/27/2014 3:55	19.49	331.50
2/27/2014 4:00	19.55	337.13
2/27/2014 4:05	19.62	344.93
2/27/2014 4:10	23.95	785.16
2/27/2014 4:15	19.90	373.53
2/27/2014 4:20	19.99	382.19
2/27/2014 4:25	20.13	396.93
2/27/2014 4:30	23.60	749.63
2/27/2014 4:35	17.94	178.81
2/27/2014 4:40	22.31	617.91
2/27/2014 4:45	44.23	5,831.60
2/27/2014 4:50	47.07	6,711.52
2/27/2014 4:55	50.23	7,781.14
2/27/2014 5:00	51.02	8,055.61
2/27/2014 5:05	51.17	8,109.31
2/27/2014 5:10	51.35	8,171.96
2/27/2014 5:15	52.35	8,521.02
2/27/2014 5:20	52.17	8,458.37
2/27/2014 5:25	53.42	8,896.93
2/27/2014 5:30	53.90	9,064.00
2/27/2014 5:35	53.74	9,007.31
2/27/2014 5:40	52.93	8,723.89
2/27/2014 5:45	52.74	8,658.26
2/27/2014 5:50	51.89	8,362.90
2/27/2014 5:55	52.11	8,437.48
2/27/2014 6:00	50.60	7,909.42
2/27/2014 6:05	49.11	7,387.33
2/27/2014 6:10	49.11	7,387.33
2/27/2014 6:15	48.66	7,232.20
2/27/2014 6:20	48.19	7,065.13
2/27/2014 6:25	47.90	6,967.84
2/27/2014 6:30	47.83	6,946.70
2/27/2014 6:35	48.26	7,091.98
2/27/2014 6:40	47.98	6,994.26
2/27/2014 6:45	48.36	7,124.79
2/27/2014 6:50	48.35	7,121.81
2/27/2014 6:55	48.35	7,121.81
2/27/2014 7:00	48.22	7,077.06
2/27/2014 7:05	48.31	7,109.88
2/27/2014 7:10	48.95	7,333.63
2/27/2014 7:15	48.38	7,133.74
2/27/2014 7:20	48.52	7,181.48

Date and Time	Level (inches)	Flow (cfs)
2/27/2014 7:25	48.77	7,270.98
2/27/2014 7:30	48.29	7,100.93
2/27/2014 7:35	48.61	7,214.30
2/27/2014 7:40	48.59	7,205.34
2/27/2014 7:45	48.37	7,127.78
2/27/2014 7:50	47.93	6,978.41
2/27/2014 7:55	47.70	6,907.06
2/27/2014 8:00	47.29	6,780.23
2/27/2014 8:05	46.81	6,632.25
2/27/2014 8:10	46.20	6,442.00
2/27/2014 8:15	45.83	6,325.73
2/27/2014 8:20	45.74	6,299.30
2/27/2014 8:25	45.37	6,185.68
2/27/2014 8:30	45.28	6,156.61
2/27/2014 8:35	45.31	6,167.18
2/27/2014 8:40	45.58	6,249.10
2/27/2014 8:45	45.89	6,344.23
2/27/2014 8:50	46.15	6,426.14
2/27/2014 8:55	46.49	6,531.84
2/27/2014 9:00	46.25	6,457.85
2/27/2014 9:05	46.55	6,550.33
2/27/2014 9:10	46.35	6,489.56
2/27/2014 9:15	45.88	6,341.58
2/27/2014 9:20	44.91	6,042.99
2/27/2014 9:25	44.50	5,916.15
2/27/2014 9:30	44.20	5,821.02
2/27/2014 9:35	43.73	5,675.69
2/27/2014 9:40	43.40	5,575.28
2/27/2014 9:45	42.75	5,371.81
2/27/2014 9:50	42.31	5,237.05
2/27/2014 9:55	41.88	5,105.33
2/27/2014 10:00	41.52	5,003.29
2/27/2014 10:05	41.19	4,908.55
2/27/2014 10:10	40.86	4,813.80
2/27/2014 10:15	40.51	4,716.63
2/27/2014 10:20	40.17	4,617.03
2/27/2014 10:25	39.85	4,527.15
2/27/2014 10:30	39.71	4,485.85
2/27/2014 10:35	39.42	4,405.68
2/27/2014 10:40	39.20	4,342.52
2/27/2014 10:45	39.05	4,298.79
2/27/2014 10:50	38.82	4,233.20
2/27/2014 10:55	38.70	4,199.18
2/27/2014 11:00	38.62	4,177.32
2/27/2014 11:05	38.44	4,126.30

Date and Time	Level (inches)	Flow (cfs)
2/27/2014 11:10	38.43	4,121.45
2/27/2014 11:15	38.34	4,097.15
2/27/2014 11:20	38.17	4,048.57
2/27/2014 11:25	38.07	4,019.41
2/27/2014 11:30	37.82	3,948.96
2/27/2014 11:35	37.63	3,893.09
2/27/2014 11:40	37.38	3,822.64
2/27/2014 11:45	37.27	3,791.06
2/27/2014 11:50	37.04	3,725.47
2/27/2014 11:55	36.81	3,659.87
2/27/2014 12:00	36.49	3,569.99
2/27/2014 12:05	36.32	3,521.40
2/27/2014 12:10	36.07	3,448.52
2/27/2014 12:15	35.87	3,397.45
2/27/2014 12:20	35.63	3,338.18
2/27/2014 12:25	35.41	3,283.15
2/27/2014 12:30	35.18	3,225.99
2/27/2014 12:35	34.97	3,175.19
2/27/2014 12:40	34.79	3,128.62
2/27/2014 12:45	34.54	3,067.23
2/27/2014 12:50	34.31	3,010.08
2/27/2014 12:55	34.13	2,965.63
2/27/2014 13:00	33.88	2,904.24
2/27/2014 13:05	33.66	2,849.21
2/27/2014 13:10	33.42	2,789.94
2/27/2014 13:15	33.19	2,732.78
2/27/2014 13:20	32.98	2,679.86
2/27/2014 13:25	32.78	2,629.06
2/27/2014 13:30	32.55	2,574.02
2/27/2014 13:35	32.34	2,521.10
2/27/2014 13:40	32.17	2,478.77
2/27/2014 13:45	32.02	2,440.67
2/27/2014 13:50	31.82	2,391.98
2/27/2014 13:55	31.62	2,343.29
2/27/2014 14:00	31.43	2,294.61
2/27/2014 14:05	31.25	2,250.16
2/27/2014 14:10	31.04	2,197.24
2/27/2014 14:15	30.86	2,152.78
2/27/2014 14:20	30.68	2,108.33
2/27/2014 14:25	30.49	2,061.76
2/27/2014 14:30	30.30	2,015.19
2/27/2014 14:35	30.15	1,977.09
2/27/2014 14:40	29.99	1,937.58
2/27/2014 14:45	29.84	1,909.81
2/27/2014 14:50	29.67	1,877.14

Date and Time	Level (inches)	Flow (cfs)
2/27/2014 14:55	29.52	1,847.73
2/27/2014 15:00	29.37	1,818.32
2/27/2014 15:05	29.23	1,792.18
2/27/2014 15:10	29.08	1,762.77
2/27/2014 15:15	28.92	1,733.36
2/27/2014 15:20	28.77	1,703.96
2/27/2014 15:25	28.62	1,674.55
2/27/2014 15:30	28.50	1,651.68
2/27/2014 15:35	28.42	1,636.97
2/27/2014 15:40	28.45	1,641.87
2/27/2014 15:45	28.47	1,646.78
2/27/2014 15:50	28.45	1,643.51
2/27/2014 15:55	28.37	1,627.17
2/27/2014 16:00	28.18	1,591.23
2/27/2014 16:05	27.92	1,540.58
2/27/2014 16:10	27.61	1,481.77
2/27/2014 16:15	27.37	1,436.02
2/27/2014 16:20	27.15	1,393.54
2/27/2014 16:25	27.00	1,365.77
2/27/2014 16:30	26.87	1,339.63
2/27/2014 16:35	26.74	1,315.12
2/27/2014 16:40	26.62	1,292.25
2/27/2014 16:45	26.51	1,271.01
2/27/2014 16:50	26.41	1,251.40
2/27/2014 16:55	26.28	1,226.90
2/27/2014 17:00	26.19	1,210.56
2/27/2014 17:05	26.22	1,215.46
2/27/2014 17:10	26.26	1,223.63
2/27/2014 17:15	26.21	1,213.83
2/27/2014 17:20	26.07	1,186.05
2/27/2014 17:25	25.85	1,145.21
2/27/2014 17:30	25.70	1,115.80
2/27/2014 17:35	25.55	1,086.40
2/27/2014 17:40	25.43	1,063.52
2/27/2014 17:45	25.34	1,047.18
2/27/2014 17:50	25.36	1,050.45
2/27/2014 17:55	25.38	1,053.72
2/27/2014 18:00	25.27	1,034.12
2/27/2014 18:05	25.16	1,012.88
2/27/2014 18:10	25.00	981.83
2/27/2014 18:15	24.86	954.06
2/27/2014 18:20	24.75	934.46
2/27/2014 18:25	24.64	913.22
2/27/2014 18:30	24.56	896.88
2/27/2014 18:35	24.46	878.91

Date and Time	Level (inches)	Flow (cfs)
2/27/2014 18:40	24.40	867.47
2/27/2014 18:45	24.29	844.60
2/27/2014 18:50	24.22	831.53
2/27/2014 18:55	24.11	811.92
2/27/2014 19:00	24.05	798.85
2/27/2014 19:05	23.96	786.03
2/27/2014 19:10	23.92	781.70
2/27/2014 19:15	23.83	772.16
2/27/2014 19:20	23.73	762.63
2/27/2014 19:25	23.66	755.70
2/27/2014 19:30	23.60	749.63
2/27/2014 19:35	23.52	740.97
2/27/2014 19:40	23.47	735.77
2/27/2014 19:45	23.42	731.43
2/27/2014 19:50	23.35	723.63
2/27/2014 19:55	23.27	715.84
2/27/2014 20:00	23.20	708.90
2/27/2014 20:05	23.15	703.70
2/27/2014 20:10	23.07	695.04
2/27/2014 20:15	23.01	688.97
2/27/2014 20:20	22.94	682.04
2/27/2014 20:25	22.86	674.24
2/27/2014 20:30	22.78	665.57
2/27/2014 20:35	22.70	657.77
2/27/2014 20:40	22.64	651.71
2/27/2014 20:45	22.55	643.04
2/27/2014 20:50	22.47	634.37
2/27/2014 20:55	22.43	630.04
2/27/2014 21:00	22.37	623.98
2/27/2014 21:05	22.29	616.18
2/27/2014 21:10	22.20	606.64
2/27/2014 21:15	22.09	595.38
2/27/2014 21:20	22.05	591.91
2/27/2014 21:25	21.96	582.38
2/27/2014 21:30	21.86	572.85
2/27/2014 21:35	21.82	568.51
2/27/2014 21:40	21.75	560.71
2/27/2014 21:45	21.66	552.05
2/27/2014 21:50	21.59	545.11
2/27/2014 21:55	21.51	536.45
2/27/2014 22:00	21.46	531.25
2/27/2014 22:05	21.38	523.45
2/27/2014 22:10	21.29	514.78
2/27/2014 22:15	21.23	508.72
2/27/2014 22:20	21.17	501.78

Date and Time	Level (inches)	Flow (cfs)
2/27/2014 22:25	21.08	493.12
2/27/2014 22:30	21.00	485.32
2/27/2014 22:35	20.93	477.52
2/27/2014 22:40	20.83	467.99
2/27/2014 22:45	20.76	460.19
2/27/2014 22:50	20.69	453.25
2/27/2014 22:55	20.63	447.19
2/27/2014 23:00	20.52	435.92
2/27/2014 23:05	20.45	428.99
2/27/2014 23:10	20.38	422.06
2/27/2014 23:15	20.30	414.26
2/27/2014 23:20	20.25	409.06
2/27/2014 23:25	20.19	402.99
2/27/2014 23:30	20.13	396.93
2/27/2014 23:35	20.08	391.73
2/27/2014 23:40	20.04	387.39
2/27/2014 23:45	19.97	380.46
2/27/2014 23:50	19.92	375.26
2/27/2014 23:55	19.87	370.06

Table F-5. Storm 1 TL Flow

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/27/2014 0:00	0.757	0.73	2.316
2/27/2014 0:05	0.757	0.73	2.316
2/27/2014 0:10	0.757	0.73	2.316
2/27/2014 0:15	0.757	0.73	2.316
2/27/2014 0:20	0.757	0.73	2.316
2/27/2014 0:25	0.757	0.73	2.316
2/27/2014 0:30	0.757	0.73	2.316
2/27/2014 0:35	0.757	0.73	2.316
2/27/2014 0:40	0.757	0.73	2.316
2/27/2014 0:45	0.757	0.73	2.316
2/27/2014 0:50	0.757	0.73	2.316
2/27/2014 0:55	0.757	0.73	2.316
2/27/2014 1:00	0.782	1.29	4.208
2/27/2014 1:05	0.782	1.29	4.208
2/27/2014 1:10	1.021	0.92	3.917
2/27/2014 1:15	1.421	0.65	3.842
2/27/2014 1:20	2.351	0.73	7.107
2/27/2014 1:25	3.689	0.18	2.764
2/27/2014 1:30	4.737	0.09	1.844
2/27/2014 1:35	7.201	1.05	31.461
2/27/2014 1:40	9.204	1.16	44.409
2/27/2014 1:45	9.707	1.13	45.824
2/27/2014 1:50	9.605	1.09	43.733
2/27/2014 1:55	13.602	2	113.273
2/27/2014 2:00	19.223	2.21	176.84
2/27/2014 2:05	20.993	2.12	185.766
2/27/2014 2:10	21.317	2.28	202.172
2/27/2014 2:15	21.086	2.07	181.641
2/27/2014 2:20	20.95	2.26	196.98
2/27/2014 2:25	20.877	2.33	202.523
2/27/2014 2:30	21.055	2.34	205.599
2/27/2014 2:35	21.446	2.56	228.404
2/27/2014 2:40	21.727	2.36	213.688
2/27/2014 2:45	21.841	2.44	221.994
2/27/2014 2:50	22.144	2.43	224.065
2/27/2014 2:55	22.317	2.01	222.264
2/27/2014 3:00	22.322	1.01	220.463
2/27/2014 3:05	22.106	1.51	218.662
2/27/2014 3:10	20.855	2.5	216.861
2/27/2014 3:15	20.151	2.61	219.265
2/27/2014 3:20	19.377	2.67	215.895
2/27/2014 3:25	18.601	2.51	194.66
2/27/2014 3:30	17.822	2.4	178.335
2/27/2014 3:35	16.927	2.35	165.829

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/27/2014 3:40	15.98	2.22	148.139
2/27/2014 3:45	15.051	2.1	131.712
2/27/2014 3:50	14.199	2.01	119.094
2/27/2014 3:55	13.474	2.08	116.857
2/27/2014 4:00	12.903	1.92	103.484
2/27/2014 4:05	12.46	1.96	101.882
2/27/2014 4:10	12.068	1.85	92.994
2/27/2014 4:15	11.684	1.83	89.23
2/27/2014 4:20	11.369	1.78	84.377
2/27/2014 4:25	11.079	1.79	82.549
2/27/2014 4:30	10.798	1.81	81.29
2/27/2014 4:35	10.627	1.68	74.454
2/27/2014 4:40	10.482	1.67	72.879
2/27/2014 4:45	10.338	1.7	73.388
2/27/2014 4:50	10.261	1.71	72.903
2/27/2014 4:55	10.15	1.72	72.547
2/27/2014 5:00	10.048	1.69	70.728
2/27/2014 5:05	9.835	1.65	67.564
2/27/2014 5:10	9.587	1.66	66.369
2/27/2014 5:15	9.34	1.61	62.603
2/27/2014 5:20	9.127	1.53	58.376
2/27/2014 5:25	8.846	1.57	57.977
2/27/2014 5:30	8.633	1.57	56.595
2/27/2014 5:35	8.437	1.47	51.555
2/27/2014 5:40	8.241	1.46	50.117
2/27/2014 5:45	8.096	1.43	48.231
2/27/2014 5:50	7.968	1.43	47.376
2/27/2014 5:55	7.857	1.42	46.619
2/27/2014 6:00	7.746	1.35	43.624
2/27/2014 6:05	7.618	1.34	42.397
2/27/2014 6:10	7.499	1.3	40.689
2/27/2014 6:15	7.363	1.32	40.532
2/27/2014 6:20	7.209	1.31	39.465
2/27/2014 6:25	7.081	1.32	38.989
2/27/2014 6:30	6.962	1.25	36.301
2/27/2014 6:35	6.851	1.24	35.255
2/27/2014 6:40	6.775	1.27	35.809
2/27/2014 6:45	6.655	1.24	34.346
2/27/2014 6:50	6.587	1.23	33.759
2/27/2014 6:55	6.468	1.21	32.64
2/27/2014 7:00	6.348	1.18	31.287
2/27/2014 7:05	6.22	1.19	30.905
2/27/2014 7:10	6.144	1.18	30.243
2/27/2014 7:15	6.059	1.18	29.783
2/27/2014 7:20	5.965	1.14	28.213

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/27/2014 7:25	5.888	1.08	26.403
2/27/2014 7:30	5.803	1.15	27.757
2/27/2014 7:35	5.709	1.05	25.025
2/27/2014 7:40	5.581	1.02	23.674
2/27/2014 7:45	5.479	1.05	23.861
2/27/2014 7:50	5.351	1.01	22.555
2/27/2014 7:55	5.266	1	21.897
2/27/2014 8:00	5.172	0.97	20.882
2/27/2014 8:05	5.061	0.91	19.195
2/27/2014 8:10	4.976	0.85	17.549
2/27/2014 8:15	4.882	0.86	17.503
2/27/2014 8:20	4.806	0.84	16.767
2/27/2014 8:25	4.712	0.89	17.547
2/27/2014 8:30	4.644	0.76	14.712
2/27/2014 8:35	4.541	0.81	15.331
2/27/2014 8:40	4.473	0.68	12.756
2/27/2014 8:45	4.413	0.71	13.06
2/27/2014 8:50	4.337	0.79	14.311
2/27/2014 8:55	4.26	0.6	10.675
2/27/2014 9:00	4.2	0.68	11.855
2/27/2014 9:05	4.115	0.6	10.277
2/27/2014 9:10	4.055	0.63	10.571
2/27/2014 9:15	4.004	0.63	10.431
2/27/2014 9:20	3.953	0.6	9.916
2/27/2014 9:25	3.876	0.44	7.123
2/27/2014 9:30	3.817	0.46	7.303
2/27/2014 9:35	3.723	0.45	6.968
2/27/2014 9:40	3.672	0.4	6.095
2/27/2014 9:45	3.612	0.44	6.643
2/27/2014 9:50	3.527	0.43	6.325
2/27/2014 9:55	3.484	0.53	7.663
2/27/2014 10:00	3.399	0.5	7.076
2/27/2014 10:05	3.331	0.41	5.732
2/27/2014 10:10	3.254	0.4	5.396
2/27/2014 10:15	3.22	0.44	5.85
2/27/2014 10:20	3.152	0.43	5.587
2/27/2014 10:25	3.118	0.37	4.783
2/27/2014 10:30	3.067	0.43	5.482
2/27/2014 10:35	2.99	0.4	4.931
2/27/2014 10:40	2.947	0.44	5.364
2/27/2014 10:45	2.913	0.43	5.173
2/27/2014 10:50	2.854	0.44	5.262
2/27/2014 10:55	2.785	0.44	5.088
2/27/2014 11:00	2.717	0.43	4.848
2/27/2014 11:05	2.675	0.43	4.801

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/27/2014 11:10	2.64	0.47	5.166
2/27/2014 11:15	2.615	0.45	4.872
2/27/2014 11:20	2.581	0.45	4.837
2/27/2014 11:25	2.53	0.43	4.48
2/27/2014 11:30	2.47	0.42	4.353
2/27/2014 11:35	2.427	0.38	3.815
2/27/2014 11:40	2.41	0.48	4.855
2/27/2014 11:45	2.334	0.46	4.467
2/27/2014 11:50	2.282	0.45	4.319
2/27/2014 11:55	2.265	0.47	4.423
2/27/2014 12:00	2.223	0.39	3.649
2/27/2014 12:05	2.206	0.49	4.52
2/27/2014 12:10	2.206	0.46	4.222
2/27/2014 12:15	2.163	0.47	4.234
2/27/2014 12:20	2.138	0.45	4.002
2/27/2014 12:25	2.12	0.43	3.838
2/27/2014 12:30	2.086	0.37	3.25
2/27/2014 12:35	2.01	0.44	3.664
2/27/2014 12:40	1.959	0.41	3.387
2/27/2014 12:45	1.941	0.34	2.72
2/27/2014 12:50	1.933	0.35	2.804
2/27/2014 12:55	1.916	0.39	3.121
2/27/2014 13:00	1.882	0.42	3.317
2/27/2014 13:05	1.873	0.4	3.146
2/27/2014 13:10	1.839	0.45	3.444
2/27/2014 13:15	1.814	0.37	2.808
2/27/2014 13:20	1.797	0.3	2.208
2/27/2014 13:25	1.771	0.34	2.519
2/27/2014 13:30	1.771	0.42	3.101
2/27/2014 13:35	1.754	0.36	2.659
2/27/2014 13:40	1.737	0.39	2.805
2/27/2014 13:45	1.78	0.39	2.869
2/27/2014 13:50	1.797	0.45	3.376
2/27/2014 13:55	1.78	0.41	3.004
2/27/2014 14:00	1.78	0.4	2.994
2/27/2014 14:05	1.762	0.41	3.012
2/27/2014 14:10	1.728	0.4	2.865
2/27/2014 14:15	1.737	0.4	2.927
2/27/2014 14:20	1.754	0.32	2.337
2/27/2014 14:25	1.728	0.36	2.591
2/27/2014 14:30	1.711	0.43	3.1
2/27/2014 14:35	1.711	0.43	3.087
2/27/2014 14:40	1.686	0.43	3.015
2/27/2014 14:45	1.669	0.38	2.671
2/27/2014 14:50	1.643	0.35	2.392

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/27/2014 14:55	1.583	0.37	2.457
2/27/2014 15:00	1.558	0.33	2.159
2/27/2014 15:05	1.549	0.31	1.977
2/27/2014 15:10	1.532	0.32	2.023
2/27/2014 15:15	1.532	0.35	2.213
2/27/2014 15:20	1.541	0.39	2.496
2/27/2014 15:25	1.524	0.33	2.099
2/27/2014 15:30	1.507	0.2	1.286
2/27/2014 15:35	1.498	0.26	1.644
2/27/2014 15:40	1.481	0.33	2.055
2/27/2014 15:45	1.447	0.4	2.394
2/27/2014 15:50	1.421	0.31	1.844
2/27/2014 15:55	1.387	0.26	1.52
2/27/2014 16:00	1.362	0.31	1.785
2/27/2014 16:05	1.319	0.22	1.224
2/27/2014 16:10	1.302	0.25	1.355
2/27/2014 16:15	1.251	0.29	1.517
2/27/2014 16:20	1.225	0.25	1.251
2/27/2014 16:25	1.183	0.23	1.119
2/27/2014 16:30	1.157	0.17	0.819
2/27/2014 16:35	1.132	0.19	0.919
2/27/2014 16:40	1.089	0.3	1.351
2/27/2014 16:45	1.106	0.29	1.337
2/27/2014 16:50	1.089	0.04	0.202
2/27/2014 16:55	1.072	0.07	0.307
2/27/2014 17:00	1.063	0.04	0.172
2/27/2014 17:05	1.063	0.08	0.336
2/27/2014 17:10	1.072	0.02	0.108
2/27/2014 17:15	1.063	0.05	0.212
2/27/2014 17:20	1.063	0.05	0.212
2/27/2014 17:25	1.063	0.05	0.212
2/27/2014 17:30	1.055	0.06	0.268
2/27/2014 17:35	1.046	0.04	0.179
2/27/2014 17:40	1.012	0.04	0.185
2/27/2014 17:45	1.029	0.11	0.483
2/27/2014 17:50	1.055	0.08	0.34
2/27/2014 17:55	1.029	0.02	0.096
2/27/2014 18:00	1.029	0.22	0.945
2/27/2014 18:05	1.021	0.22	0.921
2/27/2014 18:10	1.021	0.23	0.966
2/27/2014 18:15	1.004	0.17	0.695
2/27/2014 18:20	1.012	0.05	0.194
2/27/2014 18:25	1.004	0.06	0.249
2/27/2014 18:30	0.978	0.02	0.078
2/27/2014 18:35	0.978	0.03	0.123

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/27/2014 18:40	0.97	0.03	0.117
2/27/2014 18:45	0.987	0.18	0.729
2/27/2014 18:50	0.978	0.15	0.62
2/27/2014 18:55	0.97	0.05	0.216
2/27/2014 19:00	0.97	0.07	0.263
2/27/2014 19:05	0.944	0.02	0.067
2/27/2014 19:10	0.944	0.02	0.067
2/27/2014 19:15	0.944	0.02	0.067
2/27/2014 19:20	0.944	0.02	0.067
2/27/2014 19:25	0.902	0.01	0.052
2/27/2014 19:30	0.902	0.02	0.083
2/27/2014 19:35	0.884	0.18	0.663
2/27/2014 19:40	0.919	0.03	0.107
2/27/2014 19:45	0.927	0.03	0.104
2/27/2014 19:50	0.91	0.09	0.331
2/27/2014 19:55	0.893	0.06	0.218
2/27/2014 20:00	0.902	0.04	0.139
2/27/2014 20:05	0.902	0.06	0.219
2/27/2014 20:10	0.884	0.07	0.246
2/27/2014 20:15	0.884	0.06	0.211
2/27/2014 20:20	0.859	0.03	0.097
2/27/2014 20:25	0.893	0.06	0.223
2/27/2014 20:30	0.859	0.05	0.176
2/27/2014 20:35	0.859	0.06	0.213
2/27/2014 20:40	0.859	0.09	0.309
2/27/2014 20:45	0.85	0.08	0.297
2/27/2014 20:50	0.85	0.05	0.175
2/27/2014 20:55	0.842	0.05	0.167
2/27/2014 21:00	0.833	0.05	0.167
2/27/2014 21:05	0.859	0.05	0.167
2/27/2014 21:10	0.859	0.06	0.226
2/27/2014 21:15	0.867	0.04	0.156
2/27/2014 21:20	0.842	0.01	0.019
2/27/2014 21:25	0.833	0.04	0.149
2/27/2014 21:30	0.833	0.04	0.149
2/27/2014 21:35	0.833	0.04	0.149
2/27/2014 21:40	0.833	0.04	0.149
2/27/2014 21:45	0.833	0.04	0.149
2/27/2014 21:50	0.816	0.1	0.348
2/27/2014 21:55	0.833	0.08	0.281
2/27/2014 22:00	0.825	0.05	0.164
2/27/2014 22:05	0.825	0.06	0.193
2/27/2014 22:10	0.816	0.05	0.172
2/27/2014 22:15	0.825	0.06	0.204
2/27/2014 22:20	0.825	0.14	0.483

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/27/2014 22:25	0.85	0.05	0.187
2/27/2014 22:30	0.833	0.07	0.244
2/27/2014 22:35	0.825	0.06	0.221
2/27/2014 22:40	0.825	0.07	0.224
2/27/2014 22:45	0.816	0.04	0.126
2/27/2014 22:50	0.825	0.04	0.123
2/27/2014 22:55	0.808	0.06	0.197
2/27/2014 23:00	0.808	0.06	0.19
2/27/2014 23:05	0.799	0.05	0.163
2/27/2014 23:10	0.808	0.22	0.728
2/27/2014 23:15	0.799	0.04	0.141
2/27/2014 23:20	0.782	0.05	0.151
2/27/2014 23:25	0.808	0.07	0.249
2/27/2014 23:30	0.816	0.07	0.252
2/27/2014 23:35	0.808	0.07	0.238
2/27/2014 23:40	0.825	0.05	0.158
2/27/2014 23:45	0.85	0.08	0.288
2/27/2014 23:50	0.859	0.11	0.392
2/27/2014 23:55	0.876	0.09	0.317
2/28/2014 0:00	0.884	0.1	0.38
2/28/2014 0:05	0.893	0.08	0.313
2/28/2014 0:10	0.936	0.14	0.546
2/28/2014 0:15	1.004	0.57	2.382
2/28/2014 0:20	1.089	0.33	1.517
2/28/2014 0:25	1.277	0.27	1.424
2/28/2014 0:30	1.464	0.33	1.992
2/28/2014 0:35	1.728	0.4	2.862
2/28/2014 0:40	1.959	0.44	3.569
2/28/2014 0:45	2.163	0.46	4.15
2/28/2014 0:50	2.589	0.39	4.227
2/28/2014 0:55	3.152	0.25	3.288
2/28/2014 1:00	3.663	0.37	5.69
2/28/2014 1:05	4.013	0.5	8.42
2/28/2014 1:10	4.175	0.6	10.423
2/28/2014 1:15	4.209	0.67	11.827
2/28/2014 1:20	4.175	0.61	10.541
2/28/2014 1:25	4.141	0.63	10.831
2/28/2014 1:30	5.053	1.09	23.002
2/28/2014 1:35	7.465	1.48	46.028
2/28/2014 1:40	8.65	1.53	55.071
2/28/2014 1:45	8.974	1.49	55.802
2/28/2014 1:50	9.008	1.49	56.059
2/28/2014 1:55	8.974	1.47	55.009
2/28/2014 2:00	8.906	1.51	55.882
2/28/2014 2:05	8.88	1.5	55.389

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/28/2014 2:10	8.888	1.47	54.39
2/28/2014 2:15	8.965	1.45	54.232
2/28/2014 2:20	9.042	1.45	54.787
2/28/2014 2:25	9.255	1.53	59.124
2/28/2014 2:30	9.673	1.53	61.712
2/28/2014 2:35	10.423	1.61	69.842
2/28/2014 2:40	11.744	1.82	88.814
2/28/2014 2:45	13.551	2.11	119.137
2/28/2014 2:50	15.247	1.95	123.745
2/28/2014 2:55	16.824	2.29	160.308
2/28/2014 3:00	18.674	2.33	180.982
2/28/2014 3:05	20.29	2.59	219.253
2/28/2014 3:10	21.138	2.57	226.407
2/28/2014 3:15	21.785	2.71	246.43
2/28/2014 3:20	22.548	2.86	268.72
2/28/2014 3:25	22.767	2.75	260.987
2/28/2014 3:30	22.859	2.89	275.643
2/28/2014 3:35	22.91	2.86	273.396
2/28/2014 3:40	22.824	2.81	266.813
2/28/2014 3:45	22.783	2.79	264.892
2/28/2014 3:50	22.463	2.94	275.056
2/28/2014 3:55	21.574	2.68	241.307
2/28/2014 4:00	20.698	2.71	233.297
2/28/2014 4:05	19.723	2.56	210.432
2/28/2014 4:10	19.065	2.61	207.558
2/28/2014 4:15	18.838	2.6	204.076
2/28/2014 4:20	19.647	2.58	211.308
2/28/2014 4:25	21.495	2.76	247.422
2/28/2014 4:30	25.059	3.04	317.604
2/28/2014 4:35	29.625	3	370.904
2/28/2014 4:40	34.122	3.15	447.401
2/28/2014 4:45	37.763	1.91	456.165
2/28/2014 4:50	39.698	2.81	464.93
2/28/2014 4:55	40.163	2.7	452.037
2/28/2014 5:00	39.129	2.81	458.815
2/28/2014 5:05	37.152	2.89	447.652
2/28/2014 5:10	34.394	2.68	384.758
2/28/2014 5:15	31.753	2.99	394.959
2/28/2014 5:20	29.192	2.94	358.158
2/28/2014 5:25	26.815	2.9	324.417
2/28/2014 5:30	24.76	2.96	304.881
2/28/2014 5:35	23.134	2.84	273.391
2/28/2014 5:40	21.895	2.73	249.388
2/28/2014 5:45	20.823	2.61	226.028
2/28/2014 5:50	20.077	2.77	231.703

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/28/2014 5:55	19.481	2.68	217.508
2/28/2014 6:00	18.946	2.57	202.787
2/28/2014 6:05	18.617	2.58	200.492
2/28/2014 6:10	18.166	2.61	197.331
2/28/2014 6:15	17.664	2.51	184.402
2/28/2014 6:20	17.083	2.54	180.667
2/28/2014 6:25	16.388	2.43	166.148
2/28/2014 6:30	15.629	2.4	156.059
2/28/2014 6:35	14.847	2.27	140.71
2/28/2014 6:40	14.114	2.24	131.587
2/28/2014 6:45	13.44	2.23	125.017
2/28/2014 6:50	12.903	2.1	112.667
2/28/2014 6:55	12.332	1.95	100.189
2/28/2014 7:00	11.889	1.95	96.627
2/28/2014 7:05	11.429	1.84	87.572
2/28/2014 7:10	11.002	1.85	84.664
2/28/2014 7:15	10.627	1.8	79.714
2/28/2014 7:20	10.303	1.69	72.365
2/28/2014 7:25	9.963	1.72	71.523
2/28/2014 7:30	9.647	1.64	65.777
2/28/2014 7:35	9.46	1.66	65.405
2/28/2014 7:40	9.383	1.72	67.236
2/28/2014 7:45	9.587	1.69	67.624
2/28/2014 7:50	10.201	1.7	72.343
2/28/2014 7:55	11.267	1.78	83.355
2/28/2014 8:00	13.065	2.28	124.033
2/28/2014 8:05	17.573	2.61	191.285
2/28/2014 8:10	20.765	2.75	237.809
2/28/2014 8:15	22.215	2.87	265.911
2/28/2014 8:20	22.762	2.9	274.949
2/28/2014 8:25	22.854	2.66	253.227
2/28/2014 8:30	22.792	2.6	246.452
2/28/2014 8:35	23.141	3.01	290.016
2/28/2014 8:40	22.753	2.77	263.043
2/28/2014 8:45	22.172	2.92	269.647
2/28/2014 8:50	21.102	2.72	239.561
2/28/2014 8:55	20.238	2.64	222.266
2/28/2014 9:00	19.082	2.52	200.088
2/28/2014 9:05	17.932	2.33	174.205
2/28/2014 9:10	16.77	2.4	167.825
2/28/2014 9:15	15.757	2.43	159.58
2/28/2014 9:20	14.966	2.19	136.678
2/28/2014 9:25	14.352	2.12	126.54
2/28/2014 9:30	13.994	2.05	119.453
2/28/2014 9:35	13.739	2.14	122.297

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/28/2014 9:40	13.935	2.28	132.182
2/28/2014 9:45	14.156	2.23	131.477
2/28/2014 9:50	14.412	2.24	134.656
2/28/2014 9:55	14.884	2.46	152.76
2/28/2014 10:00	15.344	2.4	153.285
2/28/2014 10:05	15.889	2.44	161.657
2/28/2014 10:10	16.297	2.49	169.337
2/28/2014 10:15	16.399	2.54	173.447
2/28/2014 10:20	16.194	2.46	166.161
2/28/2014 10:25	15.802	2.42	159.249
2/28/2014 10:30	15.199	2.4	151.875
2/28/2014 10:35	14.619	2.36	143.936
2/28/2014 10:40	13.926	2.28	132.101
2/28/2014 10:45	13.321	2.16	120.022
2/28/2014 10:50	12.716	2.15	113.795
2/28/2014 10:55	12.187	2.05	104.252
2/28/2014 11:00	11.71	1.93	94.294
2/28/2014 11:05	11.198	1.87	87.199
2/28/2014 11:10	10.789	1.82	81.63
2/28/2014 11:15	10.406	1.78	77.254
2/28/2014 11:20	9.988	1.71	70.957
2/28/2014 11:25	9.63	1.68	67.547
2/28/2014 11:30	9.289	1.66	64.35
2/28/2014 11:35	9.008	1.62	60.66
2/28/2014 11:40	8.727	1.6	58.213
2/28/2014 11:45	8.454	1.56	54.823
2/28/2014 11:50	8.207	1.55	52.871
2/28/2014 11:55	7.951	1.46	48.507
2/28/2014 12:00	7.712	1.44	46.363
2/28/2014 12:05	7.508	1.42	44.47
2/28/2014 12:10	7.295	1.45	44.028
2/28/2014 12:15	7.073	1.37	40.463
2/28/2014 12:20	6.894	1.33	38.192
2/28/2014 12:25	6.689	1.34	37.237
2/28/2014 12:30	6.544	1.22	33.278
2/28/2014 12:35	6.348	1.26	33.318
2/28/2014 12:40	6.212	1.18	30.542
2/28/2014 12:45	6.007	1.2	29.937
2/28/2014 12:50	5.854	1.11	27.172
2/28/2014 12:55	5.675	1.17	27.675
2/28/2014 13:00	5.632	1.11	26.125
2/28/2014 13:05	5.479	1.07	24.427
2/28/2014 13:10	5.351	1	22.229
2/28/2014 13:15	5.232	1.08	23.473
2/28/2014 13:20	5.112	1.01	21.481

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/28/2014 13:25	5.044	0.97	20.383
2/28/2014 13:30	4.925	0.93	19.133
2/28/2014 13:35	4.823	0.95	19.17
2/28/2014 13:40	4.746	1	19.838
2/28/2014 13:45	4.652	0.94	18.19
2/28/2014 13:50	4.592	1.06	20.367
2/28/2014 13:55	4.49	0.96	18.054
2/28/2014 14:00	4.422	0.79	14.589
2/28/2014 14:05	4.371	0.92	16.809
2/28/2014 14:10	4.422	0.78	14.364
2/28/2014 14:15	4.533	1.18	22.195
2/28/2014 14:20	4.874	0.41	8.387
2/28/2014 14:25	5.573	0.8	18.506
2/28/2014 14:30	6.928	1.32	38.006
2/28/2014 14:35	9.042	1.53	57.785
2/28/2014 14:40	10.099	1.55	65.264
2/28/2014 14:45	12.548	2.36	123.41
2/28/2014 14:50	19.772	2.77	228.055
2/28/2014 14:55	21.912	2.33	212.825
2/28/2014 15:00	21.859	2.01	183.035
2/28/2014 15:05	20.805	2.18	189.239
2/28/2014 15:10	19.62	2.33	190.868
2/28/2014 15:15	18.299	2.44	186.238
2/28/2014 15:20	17.181	2.35	168.477
2/28/2014 15:25	16.159	2.17	146.027
2/28/2014 15:30	15.179	2.16	136.486
2/28/2014 15:35	14.429	2.2	132.122
2/28/2014 15:40	14.097	2.08	122.018
2/28/2014 15:45	13.67	2.11	119.913
2/28/2014 15:50	13.5	1.92	108.123
2/28/2014 15:55	13.423	1.87	104.522
2/28/2014 16:00	13.474	2.05	114.869
2/28/2014 16:05	13.508	2.03	114.451
2/28/2014 16:10	13.585	2.11	119.199
2/28/2014 16:15	13.5	2.13	119.655
2/28/2014 16:20	13.432	2.11	118.3
2/28/2014 16:25	13.312	2.05	113.466
2/28/2014 16:30	13.006	2.15	116.552
2/28/2014 16:35	12.724	1.97	104.18
2/28/2014 16:40	12.349	1.95	100.512
2/28/2014 16:45	11.949	1.93	96.097
2/28/2014 16:50	11.463	1.72	82.207
2/28/2014 16:55	11.028	1.71	78.722
2/28/2014 17:00	10.627	1.76	77.819
2/28/2014 17:05	10.218	1.72	73.418

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/28/2014 17:10	9.877	1.71	70.409
2/28/2014 17:15	9.545	1.69	67.196
2/28/2014 17:20	9.178	1.61	61.586
2/28/2014 17:25	8.812	1.56	57.313
2/28/2014 17:30	8.488	1.55	54.86
2/28/2014 17:35	8.232	1.49	51.032
2/28/2014 17:40	7.968	1.42	47.05
2/28/2014 17:45	7.797	1.5	48.89
2/28/2014 17:50	7.576	1.39	43.725
2/28/2014 17:55	7.295	1.36	41.329
2/28/2014 18:00	7.081	1.34	39.502
2/28/2014 18:05	6.868	1.33	37.925
2/28/2014 18:10	6.655	1.27	35.178
2/28/2014 18:15	6.493	1.25	33.814
2/28/2014 18:20	6.289	1.21	31.763
2/28/2014 18:25	6.084	1.16	29.366
2/28/2014 18:30	5.914	1.16	28.627
2/28/2014 18:35	5.769	1.17	28.026
2/28/2014 18:40	5.632	1.08	25.275
2/28/2014 18:45	5.487	1.05	23.925
2/28/2014 18:50	5.334	1.06	23.545
2/28/2014 18:55	5.232	1.02	22.257
2/28/2014 19:00	5.104	1.05	22.346
2/28/2014 19:05	4.985	0.99	20.619
2/28/2014 19:10	4.865	0.98	19.813
2/28/2014 19:15	4.763	0.89	17.686
2/28/2014 19:20	4.669	0.85	16.47
2/28/2014 19:25	4.567	0.9	17.202
2/28/2014 19:30	4.473	0.81	15.134
2/28/2014 19:35	4.379	0.78	14.145
2/28/2014 19:40	4.337	0.8	14.542
2/28/2014 19:45	4.243	0.68	12.071
2/28/2014 19:50	4.124	0.71	12.134
2/28/2014 19:55	4.055	0.7	11.754
2/28/2014 20:00	4.013	0.67	11.149
2/28/2014 20:05	3.945	0.66	10.818
2/28/2014 20:10	3.876	0.6	9.649
2/28/2014 20:15	3.817	0.58	9.249
2/28/2014 20:20	3.74	0.63	9.814
2/28/2014 20:25	3.689	0.53	8.128
2/28/2014 20:30	3.629	0.55	8.241
2/28/2014 20:35	3.561	0.54	8.006
2/28/2014 20:40	3.476	0.46	6.642
2/28/2014 20:45	3.45	0.43	6.113
2/28/2014 20:50	3.391	0.51	7.261

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/28/2014 20:55	3.356	0.43	6.025
2/28/2014 21:00	3.288	0.44	6.001
2/28/2014 21:05	3.237	0.47	6.391
2/28/2014 21:10	3.203	0.42	5.619
2/28/2014 21:15	3.118	0.39	5.121
2/28/2014 21:20	3.075	0.48	6.122
2/28/2014 21:25	3.033	0.46	5.782
2/28/2014 21:30	3.007	0.38	4.766
2/28/2014 21:35	2.956	0.49	5.986
2/28/2014 21:40	2.922	0.36	4.363
2/28/2014 21:45	2.862	0.44	5.209
2/28/2014 21:50	2.828	0.45	5.305
2/28/2014 21:55	2.785	0.49	5.733
2/28/2014 22:00	2.76	0.44	5.087
2/28/2014 22:05	2.709	0.36	4.056
2/28/2014 22:10	2.666	0.45	5.019
2/28/2014 22:15	2.649	0.47	5.223
2/28/2014 22:20	2.606	0.48	5.182
2/28/2014 22:25	2.572	0.44	4.694
2/28/2014 22:30	2.513	0.47	4.87
2/28/2014 22:35	2.496	0.42	4.346
2/28/2014 22:40	2.453	0.46	4.697
2/28/2014 22:45	2.41	0.48	4.813
2/28/2014 22:50	2.393	0.46	4.553
2/28/2014 22:55	2.368	0.46	4.536
2/28/2014 23:00	2.325	0.54	5.255
2/28/2014 23:05	2.291	0.41	3.881
2/28/2014 23:10	2.282	0.52	4.921
2/28/2014 23:15	2.248	0.26	2.468
2/28/2014 23:20	2.24	0.48	4.483
2/28/2014 23:25	2.223	0.42	3.869
2/28/2014 23:30	2.197	0.5	4.587
2/28/2014 23:35	2.172	0.51	4.633
2/28/2014 23:40	2.146	0.36	3.223
2/28/2014 23:45	2.129	0.49	4.338
2/28/2014 23:50	2.103	0.42	3.651
2/28/2014 23:55	2.078	0.44	3.794
3/1/2014 0:00	2.052	0.36	3.072
3/1/2014 0:05	2.044	0.34	2.866
3/1/2014 0:10	2.018	0.49	4.136
3/1/2014 0:15	2.001	0.32	2.682
3/1/2014 0:20	1.976	0.45	3.671
3/1/2014 0:25	1.959	0.49	4.035
3/1/2014 0:30	1.959	0.44	3.587
3/1/2014 0:35	1.933	0.49	3.94

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/1/2014 0:40	1.924	0.44	3.531
3/1/2014 0:45	1.924	0.47	3.765
3/1/2014 0:50	1.899	0.42	3.294
3/1/2014 0:55	1.882	0.5	3.903
3/1/2014 1:00	1.882	0.28	2.206
3/1/2014 1:05	1.839	0.48	3.712
3/1/2014 1:10	1.831	0.33	2.506
3/1/2014 1:15	1.831	0.38	2.886
3/1/2014 1:20	1.805	0.32	2.398
3/1/2014 1:25	1.78	0.41	3.049
3/1/2014 1:30	1.754	0.47	3.441
3/1/2014 1:35	1.754	0.31	2.242
3/1/2014 1:40	1.737	0.43	3.076
3/1/2014 1:45	1.728	0.38	2.716
3/1/2014 1:50	1.711	0.31	2.179
3/1/2014 1:55	1.711	0.44	3.116
3/1/2014 2:00	1.686	0.35	2.444
3/1/2014 2:05	1.694	0.41	2.91
3/1/2014 2:10	1.677	0.43	2.97
3/1/2014 2:15	1.669	0.42	2.941
3/1/2014 2:20	1.66	0.21	1.446
3/1/2014 2:25	1.643	0.16	1.121
3/1/2014 2:30	1.635	0.44	2.971
3/1/2014 2:35	1.626	0.47	3.159
3/1/2014 2:40	1.618	0.29	1.976
3/1/2014 2:45	1.609	0.31	2.066
3/1/2014 2:50	1.583	0.45	2.991
3/1/2014 2:55	1.592	0.48	3.196
3/1/2014 3:00	1.583	0.48	3.143
3/1/2014 3:05	1.575	0.19	1.273
3/1/2014 3:10	1.575	0.2	1.286
3/1/2014 3:15	1.558	0.36	2.363
3/1/2014 3:20	1.549	0.38	2.454
3/1/2014 3:25	1.524	0.27	1.686
3/1/2014 3:30	1.532	0.44	2.777
3/1/2014 3:35	1.498	0.21	1.335
3/1/2014 3:40	1.498	0.35	2.195
3/1/2014 3:45	1.473	0.45	2.739
3/1/2014 3:50	1.473	0.28	1.725
3/1/2014 3:55	1.447	0.3	1.825
3/1/2014 4:00	1.456	0.25	1.543
3/1/2014 4:05	1.421	0.42	2.462
3/1/2014 4:10	1.421	0.31	1.83
3/1/2014 4:15	1.396	0.27	1.572
3/1/2014 4:20	1.37	0.34	1.947

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/1/2014 4:25	1.379	0.25	1.435
3/1/2014 4:30	1.362	0.15	0.861
3/1/2014 4:35	1.336	0.46	2.585
3/1/2014 4:40	1.353	0.3	1.67
3/1/2014 4:45	1.345	0.39	2.183
3/1/2014 4:50	1.328	0.25	1.368
3/1/2014 4:55	1.294	0.39	2.096
3/1/2014 5:00	1.311	0.26	1.438
3/1/2014 5:05	1.285	0.11	0.602
3/1/2014 5:10	1.285	0.11	0.602
3/1/2014 5:15	1.268	0.39	2.053
3/1/2014 5:20	1.268	0.37	1.961
3/1/2014 5:25	1.277	0.39	2.085
3/1/2014 5:30	1.26	0.38	2.007
3/1/2014 5:35	1.26	0.4	2.082
3/1/2014 5:40	1.277	0.39	2.05
3/1/2014 5:45	1.251	0.21	1.117
3/1/2014 5:50	1.26	0.37	1.92
3/1/2014 5:55	1.208	0.38	1.901
3/1/2014 6:00	1.234	0.35	1.824
3/1/2014 6:05	1.225	0.3	1.535
3/1/2014 6:10	1.234	0.35	1.803
3/1/2014 6:15	1.234	0.38	1.951
3/1/2014 6:20	1.217	0.27	1.352
3/1/2014 6:25	1.268	0.26	1.366
3/1/2014 6:30	1.328	0.27	1.503
3/1/2014 6:35	1.43	0.33	1.972
3/1/2014 6:40	1.49	0.32	1.987
3/1/2014 6:45	1.558	0.36	2.312
3/1/2014 6:50	1.601	0.36	2.397
3/1/2014 6:55	1.635	0.46	3.121
3/1/2014 7:00	1.669	0.29	2.048
3/1/2014 7:05	1.669	0.46	3.193
3/1/2014 7:10	1.703	0.37	2.602
3/1/2014 7:15	1.728	0.31	2.232
3/1/2014 7:20	1.72	0.47	3.342
3/1/2014 7:25	1.72	0.46	3.273
3/1/2014 7:30	1.694	0.41	2.869
3/1/2014 7:35	1.669	0.33	2.315
3/1/2014 7:40	1.66	0.37	2.554
3/1/2014 7:45	1.66	0.41	2.82
3/1/2014 7:50	1.626	0.46	3.1
3/1/2014 7:55	1.626	0.44	2.97
3/1/2014 8:00	1.626	0.37	2.535
3/1/2014 8:05	1.626	0.39	2.632

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/1/2014 8:10	1.609	0.4	2.692
3/1/2014 8:15	1.575	0.42	2.771
3/1/2014 8:20	1.583	0.33	2.148
3/1/2014 8:25	1.558	0.38	2.473
3/1/2014 8:30	1.515	0.45	2.828
3/1/2014 8:35	1.515	0.34	2.15
3/1/2014 8:40	1.49	0.41	2.52
3/1/2014 8:45	1.481	0.31	1.922
3/1/2014 8:50	1.473	0.41	2.505
3/1/2014 8:55	1.439	0.32	1.94
3/1/2014 9:00	1.447	0.35	2.125
3/1/2014 9:05	1.43	0.44	2.611
3/1/2014 9:10	1.396	0.36	2.066
3/1/2014 9:15	1.404	0.32	1.9
3/1/2014 9:20	1.396	0.36	2.09
3/1/2014 9:25	1.396	0.4	2.344
3/1/2014 9:30	1.387	0.32	1.863
3/1/2014 9:35	1.37	0.34	1.948
3/1/2014 9:40	1.396	0.35	2.037
3/1/2014 9:45	1.37	0.38	2.195
3/1/2014 9:50	1.362	0.35	2.006
3/1/2014 9:55	1.345	0.36	2.015
3/1/2014 10:00	1.362	0.39	2.205
3/1/2014 10:05	1.37	0.34	1.932
3/1/2014 10:10	1.37	0.4	2.285
3/1/2014 10:15	1.362	0.37	2.087
3/1/2014 10:20	1.37	0.29	1.655
3/1/2014 10:25	1.336	0.33	1.845
3/1/2014 10:30	1.353	0.36	2.056
3/1/2014 10:35	1.345	0.26	1.462
3/1/2014 10:40	1.328	0.31	1.691
3/1/2014 10:45	1.336	0.28	1.576
3/1/2014 10:50	1.311	0.37	2
3/1/2014 10:55	1.294	0.32	1.746
3/1/2014 11:00	1.277	0.46	2.47
3/1/2014 11:05	1.285	0.33	1.778
3/1/2014 11:10	1.294	0.35	1.902
3/1/2014 11:15	1.294	0.37	1.967
3/1/2014 11:20	1.285	0.37	1.963
3/1/2014 11:25	1.328	0.36	1.99
3/1/2014 11:30	1.294	0.32	1.737
3/1/2014 11:35	1.294	0.17	0.922
3/1/2014 11:40	1.268	0.3	1.597
3/1/2014 11:45	1.242	0.3	1.551
3/1/2014 11:50	1.208	0.28	1.423

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/1/2014 11:55	1.166	0.17	0.839
3/1/2014 12:00	1.14	0.15	0.713
3/1/2014 12:05	1.149	0.15	0.728
3/1/2014 12:10	1.123	0.26	1.202
3/1/2014 12:15	1.106	0.15	0.685
3/1/2014 12:20	1.14	0.56	2.637
3/1/2014 12:25	1.225	0.33	1.71
3/1/2014 12:30	1.277	0.33	1.78
3/1/2014 12:35	1.456	0.4	2.42
3/1/2014 12:40	1.865	0.43	3.322
3/1/2014 12:45	2.521	0.6	6.332
3/1/2014 12:50	4.72	0.98	19.243
3/1/2014 12:55	5.948	1.09	27.052
3/1/2014 13:00	6.442	1.12	30.165
3/1/2014 13:05	6.536	1.19	32.445
3/1/2014 13:10	6.536	1.18	32.244
3/1/2014 13:15	6.536	1.19	32.331
3/1/2014 13:20	6.57	1.28	34.93
3/1/2014 13:25	6.613	1.31	36.077
3/1/2014 13:30	6.706	1.23	34.342
3/1/2014 13:35	6.996	1.19	34.631
3/1/2014 13:40	7.482	1.08	33.707
3/1/2014 13:45	7.78	1.26	40.866
3/1/2014 13:50	8.275	1.24	42.698
3/1/2014 13:55	8.701	1.33	48.182
3/1/2014 14:00	9.119	1.47	55.829
3/1/2014 14:05	9.46	1.48	58.413
3/1/2014 14:10	9.801	1.62	65.95
3/1/2014 14:15	11.079	1.89	87.128
3/1/2014 14:20	13.014	2.17	117.68
3/1/2014 14:25	14.506	2.13	128.944
3/1/2014 14:30	15.827	2.03	134.002
3/1/2014 14:35	16.696	2.09	145.621
3/1/2014 14:40	16.731	2.24	156.026
3/1/2014 14:45	16.108	2.09	140.088
3/1/2014 14:50	15.486	2.04	131.864
3/1/2014 14:55	14.446	2.09	125.778
3/1/2014 15:00	13.406	1.81	101.284
3/1/2014 15:05	12.528	1.72	90.026
3/1/2014 15:10	12.383	1.71	88.252
3/1/2014 15:15	13.56	1.88	106.082
3/1/2014 15:20	15.29	1.89	120.383
3/1/2014 15:25	16.236	2.11	142.946
3/1/2014 15:30	16.211	2.14	144.436
3/1/2014 15:35	15.546	2.05	132.786

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/1/2014 15:40	14.438	1.95	117.45
3/1/2014 15:45	13.347	1.78	98.764
3/1/2014 15:50	12.511	1.76	91.644
3/1/2014 15:55	12.75	1.76	93.595
3/1/2014 16:00	18.11	2.62	198.064
3/1/2014 16:05	26.392	2.78	305.374
3/1/2014 16:10	30.891	3.11	400.041
3/1/2014 16:15	32.725	2.84	386.62
3/1/2014 16:20	32.398	2.72	367.607
3/1/2014 16:25	31.117	2.88	373.376
3/1/2014 16:30	29.422	2.76	338.92
3/1/2014 16:35	27.563	2.69	308.565
3/1/2014 16:40	25.534	2.74	291.427
3/1/2014 16:45	24.21	2.75	277.829
3/1/2014 16:50	22.248	2.54	235.722
3/1/2014 16:55	20.781	2.53	219.465
3/1/2014 17:00	19.711	2.56	210.253
3/1/2014 17:05	18.299	2.45	186.893
3/1/2014 17:10	17.445	2.42	175.964
3/1/2014 17:15	16.159	2.22	149.798
3/1/2014 17:20	15.384	2.25	144.454
3/1/2014 17:25	14.608	2.13	129.854
3/1/2014 17:30	13.849	2.07	119.555
3/1/2014 17:35	13.236	2	110.187
3/1/2014 17:40	12.741	1.84	97.875
3/1/2014 17:45	12.213	1.87	94.965
3/1/2014 17:50	11.684	1.9	92.267
3/1/2014 17:55	11.233	1.82	85.349
3/1/2014 18:00	10.789	1.78	80.147
3/1/2014 18:05	10.363	1.79	77.266
3/1/2014 18:10	10.005	1.68	69.994
3/1/2014 18:15	9.622	1.68	67.527
3/1/2014 18:20	9.46	1.73	68.078
3/1/2014 18:25	9.86	1.71	70.402
3/1/2014 18:30	10.09	1.79	75.274
3/1/2014 18:35	10.022	1.72	71.642
3/1/2014 18:40	9.86	1.74	71.651
3/1/2014 18:45	9.664	1.73	69.485
3/1/2014 18:50	9.528	1.67	66.163
3/1/2014 18:55	9.349	1.75	68.277
3/1/2014 19:00	9.187	1.67	63.764
3/1/2014 19:05	9.033	1.65	62.248
3/1/2014 19:10	8.906	1.6	59.355
3/1/2014 19:15	8.761	1.64	59.886
3/1/2014 19:20	8.616	1.68	60.346

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/1/2014 19:25	8.513	1.66	58.941
3/1/2014 19:30	8.599	1.62	58.027
3/1/2014 19:35	8.923	1.68	62.607
3/1/2014 19:40	10.644	1.99	88.216
3/1/2014 19:45	15.489	2.46	158.901
3/1/2014 19:50	17.836	2.47	183.518
3/1/2014 19:55	18.32	2.43	185.541
3/1/2014 20:00	17.613	2.49	182.824
3/1/2014 20:05	16.959	2.49	176.038
3/1/2014 20:10	16.203	2.41	162.637
3/1/2014 20:15	15.468	2.38	153.343
3/1/2014 20:20	14.855	2.32	143.477
3/1/2014 20:25	14.276	2.28	135.785
3/1/2014 20:30	13.79	2.24	128.797
3/1/2014 20:35	13.338	2.13	118.164
3/1/2014 20:40	12.861	2.15	115.264
3/1/2014 20:45	12.426	2.1	108.81
3/1/2014 20:50	12.085	2.05	103.176
3/1/2014 20:55	11.77	2	98.247
3/1/2014 21:00	11.403	1.89	89.771
3/1/2014 21:05	10.866	1.86	84.411
3/1/2014 21:10	10.286	1.73	74.028
3/1/2014 21:15	9.715	1.7	68.663
3/1/2014 21:20	9.255	1.58	61.06
3/1/2014 21:25	8.88	1.66	61.56
3/1/2014 21:30	8.505	1.62	57.522
3/1/2014 21:35	8.207	1.58	53.945
3/1/2014 21:40	7.934	1.49	49.183
3/1/2014 21:45	7.687	1.42	45.466
3/1/2014 21:50	7.439	1.5	46.366
3/1/2014 21:55	7.218	1.48	44.408
3/1/2014 22:00	6.971	1.33	38.704
3/1/2014 22:05	6.758	1.41	39.7
3/1/2014 22:10	6.553	1.38	37.668
3/1/2014 22:15	6.408	1.33	35.415
3/1/2014 22:20	6.238	1.23	31.973
3/1/2014 22:25	6.05	1.31	33.008
3/1/2014 22:30	5.905	1.24	30.505
3/1/2014 22:35	5.752	1.22	29.123
3/1/2014 22:40	5.607	1.1	25.786
3/1/2014 22:45	5.479	1.12	25.55
3/1/2014 22:50	5.334	1.11	24.67
3/1/2014 22:55	5.223	1.05	22.947
3/1/2014 23:00	5.104	1.05	22.359
3/1/2014 23:05	5.002	1.05	21.782

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/1/2014 23:10	4.857	0.98	19.908
3/1/2014 23:15	4.797	0.94	18.82
3/1/2014 23:20	4.627	1.07	20.715
3/1/2014 23:25	4.567	0.95	18.111
3/1/2014 23:30	4.482	0.97	18.094
3/1/2014 23:35	4.405	0.62	11.456
3/1/2014 23:40	4.337	0.9	16.259
3/1/2014 23:45	4.251	0.61	10.802
3/1/2014 23:50	4.175	0.52	9.132
3/1/2014 23:55	4.098	0.41	7.073
3/2/2014 0:00	4.03	0.21	3.452
3/2/2014 0:05	3.962	0.29	4.87
3/2/2014 0:10	3.885	0.27	4.312
3/2/2014 0:15	3.834	0.32	5.163
3/2/2014 0:20	3.749	0.35	5.476
3/2/2014 0:25	3.697	0.22	3.414
3/2/2014 0:30	3.621	0.18	2.691
3/2/2014 0:35	3.578	0.27	4.046
3/2/2014 0:40	3.518	0.35	5.137
3/2/2014 0:45	3.433	0.32	4.549
3/2/2014 0:50	3.391	0.22	3.088
3/2/2014 0:55	3.322	0.22	3.009
3/2/2014 1:00	3.271	0.25	3.372
3/2/2014 1:05	3.212	0.3	4.03
3/2/2014 1:10	3.169	0.34	4.46
3/2/2014 1:15	3.118	0.28	3.63
3/2/2014 1:20	3.067	0.18	2.249
3/2/2014 1:25	3.033	0.31	3.899
3/2/2014 1:30	2.964	0.27	3.389
3/2/2014 1:35	2.939	0.23	2.76
3/2/2014 1:40	2.896	0.28	3.408
3/2/2014 1:45	2.871	0.3	3.55
3/2/2014 1:50	2.845	0.2	2.387
3/2/2014 1:55	2.802	0.24	2.767
3/2/2014 2:00	2.76	0.31	3.574
3/2/2014 2:05	2.726	0.16	1.813
3/2/2014 2:10	2.683	0.22	2.448
3/2/2014 2:15	2.649	0.25	2.781
3/2/2014 2:20	2.615	0.23	2.471
3/2/2014 2:25	2.598	0.32	3.459
3/2/2014 2:30	2.547	0.28	2.927
3/2/2014 2:35	2.538	0.24	2.553
3/2/2014 2:40	2.496	0.28	2.916
3/2/2014 2:45	2.47	0.2	2.05
3/2/2014 2:50	2.419	0.17	1.699

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/2/2014 2:55	2.393	0.24	2.443
3/2/2014 3:00	2.359	0.25	2.465
3/2/2014 3:05	2.325	0.35	3.437
3/2/2014 3:10	2.334	0.26	2.538
3/2/2014 3:15	2.257	0.18	1.732
3/2/2014 3:20	2.274	0.35	3.346
3/2/2014 3:25	2.24	0.32	2.943
3/2/2014 3:30	2.189	0.37	3.341
3/2/2014 3:35	2.18	0.19	1.746
3/2/2014 3:40	2.197	0.37	3.396
3/2/2014 3:45	2.138	0.38	3.379
3/2/2014 3:50	2.129	0.23	2.049
3/2/2014 3:55	2.129	0.27	2.422
3/2/2014 4:00	2.095	0.23	1.98
3/2/2014 4:05	2.078	0.25	2.182
3/2/2014 4:10	2.069	0.13	1.136
3/2/2014 4:15	2.027	0.19	1.571
3/2/2014 4:20	2.044	0.25	2.095
3/2/2014 4:25	1.984	0.28	2.346
3/2/2014 4:30	1.959	0.19	1.58
3/2/2014 4:35	1.924	0.35	2.8
3/2/2014 4:40	1.933	0.27	2.139
3/2/2014 4:45	1.899	0.32	2.57
3/2/2014 4:50	1.907	0.18	1.394
3/2/2014 4:55	1.924	0.14	1.113
3/2/2014 5:00	1.882	0.47	3.684
3/2/2014 5:05	1.89	0.24	1.92
3/2/2014 5:10	1.882	0.21	1.664
3/2/2014 5:15	1.839	0.33	2.553
3/2/2014 5:20	1.839	0.31	2.4
3/2/2014 5:25	1.788	0.28	2.111
3/2/2014 5:30	1.831	0.12	0.924
3/2/2014 5:35	1.848	0.28	2.136
3/2/2014 5:40	1.797	0.41	3.057
3/2/2014 5:45	1.771	0.15	1.095
3/2/2014 5:50	1.78	0.43	3.159
3/2/2014 5:55	1.762	0.34	2.512
3/2/2014 6:00	1.762	0.16	1.147
3/2/2014 6:05	1.754	0.15	1.083
3/2/2014 6:10	1.737	0.23	1.628
3/2/2014 6:15	1.728	0.37	2.676
3/2/2014 6:20	1.728	0.38	2.738
3/2/2014 6:25	1.745	0.39	2.87
3/2/2014 6:30	1.728	0.3	2.139
3/2/2014 6:35	1.686	0.2	1.419

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/2/2014 6:40	1.72	0.26	1.869
3/2/2014 6:45	1.686	0.25	1.759
3/2/2014 6:50	1.72	0.42	3.015
3/2/2014 6:55	1.805	0.48	3.607
3/2/2014 7:00	1.78	0.45	3.304
3/2/2014 7:05	1.754	0.52	3.793
3/2/2014 7:10	1.745	0.42	3.02
3/2/2014 7:15	1.745	0.29	2.096
3/2/2014 7:20	1.737	0.19	1.352
3/2/2014 7:25	1.72	0.34	2.468
3/2/2014 7:30	1.745	0.35	2.519
3/2/2014 7:35	1.762	0.34	2.517
3/2/2014 7:40	1.814	0.27	2.007
3/2/2014 7:45	1.822	0.31	2.338
3/2/2014 7:50	1.933	0.27	2.192
3/2/2014 7:55	2.078	0.37	3.164
3/2/2014 8:00	2.248	0.25	2.379
3/2/2014 8:05	2.453	0.5	5.131
3/2/2014 8:10	2.606	0.45	4.88
3/2/2014 8:15	2.64	0.43	4.704
3/2/2014 8:20	2.675	0.28	3.114
3/2/2014 8:25	2.7	0.23	2.574
3/2/2014 8:30	2.675	0.32	3.524
3/2/2014 8:35	2.709	0.28	3.198
3/2/2014 8:40	2.717	0.28	3.12
3/2/2014 8:45	2.709	0.22	2.431
3/2/2014 8:50	2.726	0.24	2.703
3/2/2014 8:55	2.743	0.37	4.189
3/2/2014 9:00	2.785	0.29	3.391
3/2/2014 9:05	2.93	0.23	2.762
3/2/2014 9:10	3.101	0.26	3.416
3/2/2014 9:15	3.263	0.36	4.845
3/2/2014 9:20	3.356	0.31	4.338
3/2/2014 9:25	3.399	0.33	4.634
3/2/2014 9:30	3.433	0.41	5.894
3/2/2014 9:35	3.433	0.44	6.225
3/2/2014 9:40	3.408	0.26	3.68
3/2/2014 9:45	3.382	0.4	5.648
3/2/2014 9:50	3.356	0.52	7.317
3/2/2014 9:55	3.314	0.4	5.576
3/2/2014 10:00	3.271	0.28	3.871
3/2/2014 10:05	3.246	0.38	5.109
3/2/2014 10:10	3.246	0.29	3.865
3/2/2014 10:15	3.229	0.32	4.334
3/2/2014 10:20	3.28	0.23	3.138

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/2/2014 10:25	3.339	0.17	2.432
3/2/2014 10:30	3.433	0.12	1.651
3/2/2014 10:35	3.561	0.15	2.172
3/2/2014 10:40	3.706	0.24	3.749
3/2/2014 10:45	3.842	0.34	5.456
3/2/2014 10:50	3.902	0.32	5.186
3/2/2014 10:55	3.919	0.36	5.901
3/2/2014 11:00	3.902	0.35	5.632
3/2/2014 11:05	3.842	0.39	6.314
3/2/2014 11:10	3.808	0.38	6.014
3/2/2014 11:15	3.749	0.28	4.32
3/2/2014 11:20	3.706	0.32	4.96
3/2/2014 11:25	3.655	0.3	4.544
3/2/2014 11:30	3.612	0.26	3.967
3/2/2014 11:35	3.587	0.24	3.643
3/2/2014 11:40	3.561	0.25	3.736
3/2/2014 11:45	3.518	0.25	3.738
3/2/2014 11:50	3.476	0.27	3.942
3/2/2014 11:55	3.425	0.19	2.748
3/2/2014 12:00	3.365	0.24	3.396
3/2/2014 12:05	3.305	0.14	1.942
3/2/2014 12:10	3.263	0.26	3.556
3/2/2014 12:15	3.246	0.2	2.68
3/2/2014 12:20	3.246	0.2	2.74
3/2/2014 12:25	3.246	0.3	3.995
3/2/2014 12:30	3.237	0.38	5.193
3/2/2014 12:35	3.212	0.43	5.714
3/2/2014 12:40	3.16	0.37	4.901
3/2/2014 12:45	3.126	0.37	4.846
3/2/2014 12:50	3.041	0.31	3.938
3/2/2014 12:55	2.939	0.29	3.6
3/2/2014 13:00	2.871	0.39	4.698
3/2/2014 13:05	2.802	0.35	4.066
3/2/2014 13:10	2.734	0.41	4.644
3/2/2014 13:15	2.683	0.48	5.341
3/2/2014 13:20	2.632	0.45	4.915
3/2/2014 13:25	2.581	0.45	4.848
3/2/2014 13:30	2.538	0.41	4.289
3/2/2014 13:35	2.496	0.36	3.779
3/2/2014 13:40	2.461	0.42	4.293
3/2/2014 13:45	2.41	0.41	4.152
3/2/2014 13:50	2.385	0.42	4.133
3/2/2014 13:55	2.351	0.51	4.964
3/2/2014 14:00	2.317	0.53	5.16
3/2/2014 14:05	2.291	0.47	4.439

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/2/2014 14:10	2.274	0.54	5.13
3/2/2014 14:15	2.248	0.47	4.394
3/2/2014 14:20	2.223	0.41	3.766
3/2/2014 14:25	2.197	0.52	4.757
3/2/2014 14:30	2.18	0.45	4.091
3/2/2014 14:35	2.189	0.47	4.308
3/2/2014 14:40	2.231	0.49	4.548
3/2/2014 14:45	2.24	0.46	4.304
3/2/2014 14:50	2.291	0.46	4.357
3/2/2014 14:55	2.325	0.57	5.481
3/2/2014 15:00	2.351	0.44	4.327
3/2/2014 15:05	2.385	0.52	5.211
3/2/2014 15:10	2.419	0.52	5.215
3/2/2014 15:15	2.453	0.5	5.069
3/2/2014 15:20	2.453	0.52	5.306
3/2/2014 15:25	2.427	0.5	5.053
3/2/2014 15:30	2.41	0.48	4.792
3/2/2014 15:35	2.385	0.51	5.06
3/2/2014 15:40	2.359	0.55	5.414
3/2/2014 15:45	2.325	0.52	5.016
3/2/2014 15:50	2.282	0.49	4.666
3/2/2014 15:55	2.248	0.37	3.438
3/2/2014 16:00	2.206	0.49	4.542
3/2/2014 16:05	2.163	0.57	5.166
3/2/2014 16:10	2.103	0.48	4.219
3/2/2014 16:15	2.069	0.41	3.573
3/2/2014 16:20	2.035	0.48	4.05
3/2/2014 16:25	1.976	0.49	4.005
3/2/2014 16:30	1.941	0.48	3.899
3/2/2014 16:35	1.907	0.45	3.61
3/2/2014 16:40	1.907	0.48	3.788
3/2/2014 16:45	1.873	0.48	3.715
3/2/2014 16:50	1.822	0.48	3.647
3/2/2014 16:55	1.788	0.41	3.087
3/2/2014 17:00	1.745	0.43	3.104
3/2/2014 17:05	1.711	0.39	2.752
3/2/2014 17:10	1.703	0.41	2.944
3/2/2014 17:15	1.669	0.38	2.653
3/2/2014 17:20	1.635	0.43	2.957
3/2/2014 17:25	1.618	0.28	1.876
3/2/2014 17:30	1.601	0.35	2.313
3/2/2014 17:35	1.583	0.27	1.77
3/2/2014 17:40	1.549	0.4	2.567
3/2/2014 17:45	1.532	0.41	2.624
3/2/2014 17:50	1.507	0.21	1.311

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/2/2014 17:55	1.49	0.3	1.887
3/2/2014 18:00	1.456	0.25	1.547
3/2/2014 18:05	1.456	0.29	1.765
3/2/2014 18:10	1.421	0.38	2.251
3/2/2014 18:15	1.404	0.14	0.84
3/2/2014 18:20	1.396	0.31	1.795
3/2/2014 18:25	1.362	0.41	2.308
3/2/2014 18:30	1.362	0.11	0.648
3/2/2014 18:35	1.336	0.39	2.191
3/2/2014 18:40	1.311	0.39	2.138
3/2/2014 18:45	1.302	0.18	0.968
3/2/2014 18:50	1.285	0.39	2.113
3/2/2014 18:55	1.268	0.4	2.117
3/2/2014 19:00	1.251	0.14	0.737
3/2/2014 19:05	1.285	0.1	0.514
3/2/2014 19:10	1.26	0.16	0.846
3/2/2014 19:15	1.277	0.36	1.924
3/2/2014 19:20	1.268	0.4	2.121
3/2/2014 19:25	1.242	0.36	1.873
3/2/2014 19:30	1.225	0.18	0.899
3/2/2014 19:35	1.208	0.25	1.243
3/2/2014 19:40	1.191	0.33	1.636
3/2/2014 19:45	1.191	0.31	1.556
3/2/2014 19:50	1.157	0.27	1.304
3/2/2014 19:55	1.149	0.11	0.517
3/2/2014 20:00	1.14	0.14	0.689
3/2/2014 20:05	1.106	0.31	1.419
3/2/2014 20:10	1.098	0.34	1.569
3/2/2014 20:15	1.089	0.28	1.25
3/2/2014 20:20	1.089	0.22	1.014
3/2/2014 20:25	1.072	0.06	0.286
3/2/2014 20:30	1.072	0.09	0.39
3/2/2014 20:35	1.089	0.06	0.276
3/2/2014 20:40	1.089	0.09	0.391
3/2/2014 20:45	1.081	0.15	0.662
3/2/2014 20:50	1.063	0.09	0.409
3/2/2014 20:55	1.063	0.15	0.666
3/2/2014 21:00	1.055	0.13	0.592
3/2/2014 21:05	1.046	0.14	0.614
3/2/2014 21:10	1.046	0.23	1.005
3/2/2014 21:15	1.021	0.17	0.702
3/2/2014 21:20	1.021	0.07	0.317
3/2/2014 21:25	1.029	0.06	0.27
3/2/2014 21:30	0.995	0.03	0.11
3/2/2014 21:35	1.012	0.06	0.244

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/2/2014 21:40	1.012	0.08	0.323
3/2/2014 21:45	0.987	0.1	0.421
3/2/2014 21:50	0.987	0.09	0.353
3/2/2014 21:55	0.978	0.07	0.286
3/2/2014 22:00	0.978	0.08	0.318
3/2/2014 22:05	0.944	0.07	0.28
3/2/2014 22:10	0.953	0.07	0.268
3/2/2014 22:15	0.944	0.13	0.526
3/2/2014 22:20	0.927	0.15	0.593
3/2/2014 22:25	0.936	0.09	0.359
3/2/2014 22:30	0.936	0.05	0.214
3/2/2014 22:35	0.919	0.05	0.186
3/2/2014 22:40	0.902	0.07	0.259
3/2/2014 22:45	0.902	0.09	0.347
3/2/2014 22:50	0.902	0.09	0.334
3/2/2014 22:55	0.893	0.1	0.378
3/2/2014 23:00	0.884	0.07	0.272
3/2/2014 23:05	0.893	0.09	0.321
3/2/2014 23:10	0.919	0.08	0.315
3/2/2014 23:15	0.884	0.06	0.22
3/2/2014 23:20	0.893	0.06	0.23
3/2/2014 23:25	0.91	0.03	0.118
3/2/2014 23:30	0.91	0.05	0.174
3/2/2014 23:35	0.902	0.05	0.203
3/2/2014 23:40	0.91	0.06	0.237
3/2/2014 23:45	0.893	0.07	0.246
3/2/2014 23:50	0.902	0.06	0.219
3/2/2014 23:55	0.893	0.12	0.461
3/3/2014 0:00	0.884	0.07	0.272
3/3/2014 0:05	0.884	0.07	0.268
3/3/2014 0:10	0.876	0.08	0.283
3/3/2014 0:15	0.893	0.09	0.333
3/3/2014 0:20	0.876	0.06	0.218
3/3/2014 0:25	0.876	0.09	0.323
3/3/2014 0:30	0.867	0.09	0.331
3/3/2014 0:35	0.859	0.07	0.251
3/3/2014 0:40	0.85	0.06	0.209
3/3/2014 0:45	0.842	0.06	0.207
3/3/2014 0:50	0.85	0.06	0.23
3/3/2014 0:55	0.85	0.07	0.239
3/3/2014 1:00	0.842	0.07	0.238
3/3/2014 1:05	0.825	0.06	0.217
3/3/2014 1:10	0.816	0.06	0.201
3/3/2014 1:15	0.816	0.06	0.211
3/3/2014 1:20	0.816	0.07	0.226

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/3/2014 1:25	0.816	0.06	0.188
3/3/2014 1:30	0.799	0.06	0.193
3/3/2014 1:35	0.774	0.06	0.198
3/3/2014 1:40	0.799	0.05	0.179
3/3/2014 1:45	0.782	0.06	0.19
3/3/2014 1:50	0.774	0.05	0.166
3/3/2014 1:55	0.774	0.05	0.161
3/3/2014 2:00	0.782	0.05	0.154
3/3/2014 2:05	0.774	0.06	0.193
3/3/2014 2:10	0.765	0.06	0.179
3/3/2014 2:15	0.765	0.06	0.199
3/3/2014 2:20	0.765	0.09	0.284
3/3/2014 2:25	0.757	0.07	0.227
3/3/2014 2:30	0.757	0.06	0.192
3/3/2014 2:35	0.757	0.07	0.206
3/3/2014 2:40	0.765	0.04	0.142
3/3/2014 2:45	0.765	0.05	0.165
3/3/2014 2:50	0.757	0.07	0.206
3/3/2014 2:55	0.757	0.06	0.202
3/3/2014 3:00	0.74	0.07	0.206
3/3/2014 3:05	0.748	0.06	0.201
3/3/2014 3:10	0.748	0.07	0.206
3/3/2014 3:15	0.74	0.07	0.205
3/3/2014 3:20	0.74	0.05	0.163
3/3/2014 3:25	0.757	0.07	0.218
3/3/2014 3:30	0.774	0.06	0.201
3/3/2014 3:35	0.748	0.06	0.181
3/3/2014 3:40	0.765	0.06	0.179
3/3/2014 3:45	0.757	0.06	0.18
3/3/2014 3:50	0.757	0.06	0.189
3/3/2014 3:55	0.774	0.06	0.202
3/3/2014 4:00	0.765	0.06	0.187
3/3/2014 4:05	0.765	0.09	0.3
3/3/2014 4:10	0.748	0.08	0.249
3/3/2014 4:15	0.757	0.06	0.204
3/3/2014 4:20	0.774	0.06	0.198
3/3/2014 4:25	0.765	0.05	0.148
3/3/2014 4:30	0.765	0.04	0.142
3/3/2014 4:35	0.74	0.02	0.065
3/3/2014 4:40	0.757	0.06	0.2
3/3/2014 4:45	0.757	0.08	0.241
3/3/2014 4:50	0.748	0.05	0.166
3/3/2014 4:55	0.757	0.08	0.244
3/3/2014 5:00	0.748	0.09	0.281
3/3/2014 5:05	0.748	0.06	0.199

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/3/2014 5:10	0.748	0.04	0.14
3/3/2014 5:15	0.757	0.09	0.274
3/3/2014 5:20	0.74	0.08	0.248
3/3/2014 5:25	0.774	0.09	0.282
3/3/2014 5:30	0.765	0.07	0.236
3/3/2014 5:35	0.765	0.05	0.149
3/3/2014 5:40	0.748	0.03	0.105
3/3/2014 5:45	0.774	0.05	0.161
3/3/2014 5:50	0.765	0.06	0.187
3/3/2014 5:55	0.765	0.06	0.187
3/3/2014 6:00	0.774	0.04	0.127
3/3/2014 6:05	0.765	0.01	0.041
3/3/2014 6:10	0.765	0.07	0.208
3/3/2014 6:15	0.774	0.08	0.244
3/3/2014 6:20	0.774	0.08	0.252
3/3/2014 6:25	0.765	0.03	0.109
3/3/2014 6:30	0.765	0.05	0.146
3/3/2014 6:35	0.765	0.07	0.21
3/3/2014 6:40	0.774	0.08	0.249
3/3/2014 6:45	0.765	0.12	0.39
3/3/2014 6:50	0.774	0.11	0.36
3/3/2014 6:55	0.765	0.1	0.328
3/3/2014 7:00	0.774	0.12	0.398
3/3/2014 7:05	0.757	0.11	0.351
3/3/2014 7:10	0.774	0.1	0.309
3/3/2014 7:15	0.765	0.09	0.273
3/3/2014 7:20	0.765	0.08	0.256
3/3/2014 7:25	0.765	0.06	0.201
3/3/2014 7:30	0.765	0.09	0.275
3/3/2014 7:35	0.774	0.09	0.288
3/3/2014 7:40	0.782	0.11	0.359
3/3/2014 7:45	0.774	0.09	0.296
3/3/2014 7:50	0.774	0.09	0.293
3/3/2014 7:55	0.782	0.1	0.331
3/3/2014 8:00	0.799	0.14	0.476
3/3/2014 8:05	0.791	0.21	0.687
3/3/2014 8:10	0.791	0.17	0.561
3/3/2014 8:15	0.799	0.15	0.486
3/3/2014 8:20	0.808	0.18	0.618
3/3/2014 8:25	0.816	0.19	0.643
3/3/2014 8:30	0.816	0.16	0.561
3/3/2014 8:35	0.816	0.17	0.591
3/3/2014 8:40	0.816	0.19	0.646
3/3/2014 8:45	0.825	0.14	0.469
3/3/2014 8:50	0.85	0.15	0.544

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/3/2014 8:55	0.842	0.17	0.595
3/3/2014 9:00	0.859	0.1	0.371
3/3/2014 9:05	0.859	0.15	0.521
3/3/2014 9:10	0.859	0.26	0.923
3/3/2014 9:15	0.859	0.21	0.747
3/3/2014 9:20	0.884	0.2	0.739
3/3/2014 9:25	0.884	0.22	0.798
3/3/2014 9:30	0.859	0.27	0.958
3/3/2014 9:35	0.842	0.22	0.777
3/3/2014 9:40	0.859	0.21	0.763
3/3/2014 9:45	0.859	0.17	0.626
3/3/2014 9:50	0.867	0.13	0.479
3/3/2014 9:55	0.85	0.11	0.403
3/3/2014 10:00	0.876	0.12	0.421
3/3/2014 10:05	0.876	0.12	0.444
3/3/2014 10:10	0.884	0.2	0.742
3/3/2014 10:15	0.884	0.22	0.805
3/3/2014 10:20	0.876	0.14	0.51
3/3/2014 10:25	0.893	0.1	0.388
3/3/2014 10:30	0.927	0.16	0.606
3/3/2014 10:35	0.919	0.16	0.615
3/3/2014 10:40	0.936	0.2	0.765
3/3/2014 10:45	0.884	0.23	0.857
3/3/2014 10:50	0.902	0.12	0.433
3/3/2014 10:55	0.927	0.1	0.378
3/3/2014 11:00	0.944	0.24	0.961
3/3/2014 11:05	0.953	0.23	0.901
3/3/2014 11:10	0.97	0.18	0.734
3/3/2014 11:15	0.978	0.25	1.011
3/3/2014 11:20	0.987	0.19	0.788
3/3/2014 11:25	0.978	0.22	0.886
3/3/2014 11:30	0.97	0.31	1.268
3/3/2014 11:35	0.944	0.2	0.786
3/3/2014 11:40	0.936	0.28	1.102
3/3/2014 11:45	0.944	0.26	1.036
3/3/2014 11:50	0.944	0.26	1.014
3/3/2014 11:55	0.97	0.24	0.971
3/3/2014 12:00	0.961	0.27	1.077
3/3/2014 12:05	0.995	0.19	0.794
3/3/2014 12:10	1.055	0.21	0.927
3/3/2014 12:15	1.089	0.17	0.759
3/3/2014 12:20	1.225	0.25	1.264
3/3/2014 12:25	1.328	0.25	1.396
3/3/2014 12:30	1.421	0.33	1.965
3/3/2014 12:35	1.473	0.27	1.644

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/3/2014 12:40	1.549	0.34	2.179
3/3/2014 12:45	1.609	0.36	2.411
3/3/2014 12:50	1.66	0.39	2.698
3/3/2014 12:55	1.703	0.32	2.243
3/3/2014 13:00	1.711	0.42	3.022
3/3/2014 13:05	1.728	0.38	2.768
3/3/2014 13:10	1.72	0.29	2.09
3/3/2014 13:15	1.72	0.28	2.028
3/3/2014 13:20	1.737	0.3	2.162
3/3/2014 13:25	1.703	0.41	2.923
3/3/2014 13:30	1.703	0.33	2.316
3/3/2014 13:35	1.669	0.38	2.618
3/3/2014 13:40	1.635	0.29	2
3/3/2014 13:45	1.618	0.37	2.474
3/3/2014 13:50	1.566	0.41	2.666
3/3/2014 13:55	1.524	0.28	1.778
3/3/2014 14:00	1.481	0.35	2.143
3/3/2014 14:05	1.439	0.23	1.409
3/3/2014 14:10	1.413	0.22	1.298
3/3/2014 14:15	1.353	0.25	1.435
3/3/2014 14:20	1.311	0.23	1.256
3/3/2014 14:25	1.277	0.24	1.277
3/3/2014 14:30	1.234	0.16	0.845
3/3/2014 14:35	1.2	0.21	1.044
3/3/2014 14:40	1.174	0.21	1.02
3/3/2014 14:45	1.149	0.15	0.7
3/3/2014 14:50	1.123	0.25	1.15
3/3/2014 14:55	1.081	0.18	0.799
3/3/2014 15:00	1.046	0.14	0.602
3/3/2014 15:05	1.012	0.25	1.065
3/3/2014 15:10	0.978	0.16	0.658
3/3/2014 15:15	0.953	0.11	0.421
3/3/2014 15:20	0.936	0.15	0.578
3/3/2014 15:25	0.91	0.08	0.293
3/3/2014 15:30	0.902	0.14	0.537
3/3/2014 15:35	0.884	0.06	0.209
3/3/2014 15:40	0.859	0.11	0.385
3/3/2014 15:45	0.859	0.09	0.317
3/3/2014 15:50	0.833	0.07	0.241
3/3/2014 15:55	0.842	0.08	0.284
3/3/2014 16:00	0.816	0.08	0.274
3/3/2014 16:05	0.799	0.05	0.173
3/3/2014 16:10	0.799	0.05	0.177
3/3/2014 16:15	0.782	0.06	0.183
3/3/2014 16:20	0.774	0.05	0.173

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/3/2014 16:25	0.774	0.05	0.177
3/3/2014 16:30	0.765	0.06	0.199
3/3/2014 16:35	0.765	0.06	0.197
3/3/2014 16:40	0.757	0.05	0.156
3/3/2014 16:45	0.74	0.05	0.154
3/3/2014 16:50	0.731	0.05	0.158
3/3/2014 16:55	0.731	0.06	0.191
3/3/2014 17:00	0.731	0.06	0.168
3/3/2014 17:05	0.723	0.05	0.161
3/3/2014 17:10	0.723	0.05	0.161
3/3/2014 17:15	0.723	0.05	0.161
3/3/2014 17:20	0.723	0.06	0.179
3/3/2014 17:25	0.731	0.04	0.132
3/3/2014 17:30	0.731	0.04	0.108
3/3/2014 17:35	0.74	0.05	0.141
3/3/2014 17:40	0.74	0.05	0.141
3/3/2014 17:45	0.748	0.04	0.131
3/3/2014 17:50	0.757	0.06	0.187
3/3/2014 17:55	0.774	0.04	0.137
3/3/2014 18:00	0.774	0.04	0.137
3/3/2014 18:05	0.782	0.03	0.108
3/3/2014 18:10	0.782	0.05	0.154
3/3/2014 18:15	0.782	0.06	0.184
3/3/2014 18:20	0.774	0.05	0.149
3/3/2014 18:25	0.774	0.04	0.124
3/3/2014 18:30	0.765	0.04	0.13
3/3/2014 18:35	0.748	0.04	0.122
3/3/2014 18:40	0.731	0.04	0.122
3/3/2014 18:45	0.731	0.04	0.121
3/3/2014 18:50	0.723	0.04	0.124
3/3/2014 18:55	0.705	0.05	0.151
3/3/2014 19:00	0.714	0.05	0.145
3/3/2014 19:05	0.697	0.05	0.131
3/3/2014 19:10	0.697	0.04	0.117
3/3/2014 19:15	0.697	0.04	0.13
3/3/2014 19:20	0.723	0.04	0.131
3/3/2014 19:25	0.714	0.03	0.089
3/3/2014 19:30	0.697	0.02	0.072
3/3/2014 19:35	0.697	0.04	0.117
3/3/2014 19:40	0.68	0.02	0.046
3/3/2014 19:45	0.688	0.03	0.091
3/3/2014 19:50	0.671	0.04	0.101
3/3/2014 19:55	0.663	0.05	0.126
3/3/2014 20:00	0.663	0.03	0.094
3/3/2014 20:05	0.654	0.05	0.126

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/3/2014 20:10	0.654	0.04	0.101
3/3/2014 20:15	0.654	0.03	0.071
3/3/2014 20:20	0.637	0.03	0.088
3/3/2014 20:25	0.646	0.04	0.095
3/3/2014 20:30	0.646	0.04	0.11
3/3/2014 20:35	0.646	0.03	0.08
3/3/2014 20:40	0.637	0.04	0.117
3/3/2014 20:45	0.663	0.04	0.101
3/3/2014 20:50	0.629	0.05	0.123
3/3/2014 20:55	0.637	0.04	0.117
3/3/2014 21:00	0.646	0.05	0.128
3/3/2014 21:05	0.637	0.05	0.127
3/3/2014 21:10	0.646	0.05	0.123
3/3/2014 21:15	0.646	0.02	0.044
3/3/2014 21:20	0.646	0.02	0.044
3/3/2014 21:25	0.637	0.03	0.068
3/3/2014 21:30	0.637	0.01	0.03
3/3/2014 21:35	0.629	0.03	0.091
3/3/2014 21:40	0.629	0.03	0.091
3/3/2014 21:45	0.629	0.03	0.091
3/3/2014 21:50	0.629	0.03	0.091
3/3/2014 21:55	0.629	0.03	0.091
3/3/2014 22:00	0.629	0.03	0.091
3/3/2014 22:05	0.629	0.03	0.091
3/3/2014 22:10	0.629	0.03	0.091
3/3/2014 22:15	0.629	0.03	0.091
3/3/2014 22:20	0.629	0.03	0.091
3/3/2014 22:25	0.629	0.03	0.091
3/3/2014 22:30	0.629	0.03	0.091
3/3/2014 22:35	0.629	0.03	0.091
3/3/2014 22:40	0.629	0.04	0.095
3/3/2014 22:45	0.62	0.04	0.108
3/3/2014 22:50	0.629	0.05	0.129
3/3/2014 22:55	0.629	0.05	0.129
3/3/2014 23:00	0.629	0.05	0.129
3/3/2014 23:05	0.629	0.05	0.129
3/3/2014 23:10	0.629	0.05	0.129
3/3/2014 23:15	0.629	0.05	0.129
3/3/2014 23:20	0.62	0.04	0.092
3/3/2014 23:25	0.62	0.07	0.183
3/3/2014 23:30	0.603	0.04	0.089
3/3/2014 23:35	0.629	0.04	0.096
3/3/2014 23:40	0.612	0.01	0.029
3/3/2014 23:45	0.646	0.07	0.177
3/3/2014 23:50	0.646	0.06	0.163

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/3/2014 23:55	0.663	0.02	0.066

Table F-6. Storm 1 PLU Flow

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/27/2014 0:00	0.838	0	0
2/27/2014 0:05	0.829	0	0
2/27/2014 0:10	0.864	0	0
2/27/2014 0:15	0.864	0	0
2/27/2014 0:20	0.864	0	0
2/27/2014 0:25	0.847	0	0
2/27/2014 0:30	0.812	0	0
2/27/2014 0:35	0.821	0	0
2/27/2014 0:40	0.838	0	0
2/27/2014 0:45	0.838	0	0
2/27/2014 0:50	0.821	0	0
2/27/2014 0:55	0.864	0	0
2/27/2014 1:00	0.855	0	0
2/27/2014 1:05	0.992	0.15	0.01
2/27/2014 1:10	2.93	0.51	0.162
2/27/2014 1:15	6.419	1.01	1.012
2/27/2014 1:20	7.97	1.22	1.666
2/27/2014 1:25	6.859	3.75	4.127
2/27/2014 1:30	4.496	4.62	2.743
2/27/2014 1:35	4.296	4.78	2.657
2/27/2014 1:40	4.948	4.91	3.359
2/27/2014 1:45	5.049	5	3.52
2/27/2014 1:50	5.102	4.69	3.355
2/27/2014 1:55	5.825	4.43	3.848
2/27/2014 2:00	7.014	2.95	3.353
2/27/2014 2:05	7.85	2.19	2.929
2/27/2014 2:10	7.824	2.29	3.046
2/27/2014 2:15	8.254	2.46	3.547
2/27/2014 2:20	5.909	4.95	4.385
2/27/2014 2:25	5.025	5.06	3.539
2/27/2014 2:30	5.277	5.45	4.092
2/27/2014 2:35	4.688	5.33	3.367
2/27/2014 2:40	4.616	5.25	3.24
2/27/2014 2:45	4.701	5.22	3.314
2/27/2014 2:50	4.606	5.19	3.193
2/27/2014 2:55	4.99	4.9	3.39
2/27/2014 3:00	6.753	3.36	3.616
2/27/2014 3:05	7.764	2.22	2.921
2/27/2014 3:10	7.362	2.16	2.642
2/27/2014 3:15	6.993	1.93	2.192
2/27/2014 3:20	6.641	1.87	1.961
2/27/2014 3:25	6.384	1.94	1.926
2/27/2014 3:30	6.256	1.76	1.7
2/27/2014 3:35	6.127	1.75	1.638

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/27/2014 3:40	5.921	1.58	1.405
2/27/2014 3:45	5.741	1.66	1.413
2/27/2014 3:50	5.604	1.6	1.312
2/27/2014 3:55	5.673	1.65	1.379
2/27/2014 4:00	6.033	1.66	1.515
2/27/2014 4:05	6.29	1.74	1.693
2/27/2014 4:10	6.221	1.57	1.501
2/27/2014 4:15	5.99	1.56	1.412
2/27/2014 4:20	5.561	1.56	1.269
2/27/2014 4:25	5.201	1.39	1.022
2/27/2014 4:30	4.824	1.24	0.816
2/27/2014 4:35	4.618	1.26	0.78
2/27/2014 4:40	4.473	1.19	0.7
2/27/2014 4:45	4.353	1.13	0.637
2/27/2014 4:50	4.207	1.08	0.58
2/27/2014 4:55	4.078	1.03	0.533
2/27/2014 5:00	3.993	0.97	0.483
2/27/2014 5:05	3.838	0.98	0.463
2/27/2014 5:10	3.65	0.91	0.4
2/27/2014 5:15	3.538	0.9	0.374
2/27/2014 5:20	3.487	0.9	0.367
2/27/2014 5:25	3.504	0.88	0.363
2/27/2014 5:30	3.521	0.88	0.366
2/27/2014 5:35	3.547	0.92	0.386
2/27/2014 5:40	3.59	0.9	0.384
2/27/2014 5:45	3.701	0.93	0.416
2/27/2014 5:50	3.701	0.92	0.41
2/27/2014 5:55	3.684	0.92	0.408
2/27/2014 6:00	3.675	0.92	0.406
2/27/2014 6:05	3.65	0.93	0.406
2/27/2014 6:10	3.59	0.92	0.391
2/27/2014 6:15	3.598	0.87	0.374
2/27/2014 6:20	3.547	0.91	0.38
2/27/2014 6:25	3.453	0.89	0.36
2/27/2014 6:30	3.47	0.89	0.362
2/27/2014 6:35	3.453	0.87	0.35
2/27/2014 6:40	3.384	0.87	0.34
2/27/2014 6:45	3.307	0.86	0.325
2/27/2014 6:50	3.238	0.82	0.301
2/27/2014 6:55	3.127	0.8	0.278
2/27/2014 7:00	3.067	0.76	0.256
2/27/2014 7:05	2.998	0.76	0.25
2/27/2014 7:10	2.861	0.72	0.221
2/27/2014 7:15	2.75	0.7	0.203
2/27/2014 7:20	2.681	0.67	0.184

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/27/2014 7:25	2.553	0.66	0.17
2/27/2014 7:30	2.475	0.62	0.153
2/27/2014 7:35	2.364	0.6	0.138
2/27/2014 7:40	2.312	0.57	0.126
2/27/2014 7:45	2.27	0.52	0.113
2/27/2014 7:50	2.192	0.53	0.108
2/27/2014 7:55	2.167	0.5	0.101
2/27/2014 8:00	2.064	0.49	0.092
2/27/2014 8:05	2.021	0.43	0.078
2/27/2014 8:10	1.944	0.44	0.076
2/27/2014 8:15	1.918	0.41	0.068
2/27/2014 8:20	1.892	0.39	0.065
2/27/2014 8:25	1.85	0.37	0.059
2/27/2014 8:30	1.815	0.35	0.054
2/27/2014 8:35	1.807	0.32	0.049
2/27/2014 8:40	1.738	0.31	0.046
2/27/2014 8:45	1.695	0.3	0.042
2/27/2014 8:50	1.73	0.3	0.043
2/27/2014 8:55	1.67	0.32	0.043
2/27/2014 9:00	1.678	0.31	0.043
2/27/2014 9:05	1.635	0.18	0.024
2/27/2014 9:10	1.627	0.23	0.03
2/27/2014 9:15	1.627	0.2	0.027
2/27/2014 9:20	1.584	0.19	0.024
2/27/2014 9:25	1.575	0.22	0.027
2/27/2014 9:30	1.567	0.12	0.015
2/27/2014 9:35	1.575	0.27	0.034
2/27/2014 9:40	1.541	0.24	0.029
2/27/2014 9:45	1.541	0.15	0.018
2/27/2014 9:50	1.498	0.18	0.021
2/27/2014 9:55	1.481	0.12	0.014
2/27/2014 10:00	1.447	0.15	0.016
2/27/2014 10:05	1.438	0.18	0.019
2/27/2014 10:10	1.447	0.11	0.013
2/27/2014 10:15	1.447	0.21	0.023
2/27/2014 10:20	1.472	0.19	0.021
2/27/2014 10:25	1.455	0.11	0.012
2/27/2014 10:30	1.421	0.14	0.015
2/27/2014 10:35	1.395	0.14	0.015
2/27/2014 10:40	1.447	0.14	0.016
2/27/2014 10:45	1.421	0.11	0.012
2/27/2014 10:50	1.412	0.15	0.016
2/27/2014 10:55	1.421	0.07	0.008
2/27/2014 11:00	1.395	0.07	0.007
2/27/2014 11:05	1.395	0.12	0.012

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/27/2014 11:10	1.412	0.18	0.019
2/27/2014 11:15	1.361	0.17	0.017
2/27/2014 11:20	1.378	0.1	0.011
2/27/2014 11:25	1.318	0.07	0.007
2/27/2014 11:30	1.344	0.07	0.007
2/27/2014 11:35	1.361	0.11	0.011
2/27/2014 11:40	1.335	0.19	0.019
2/27/2014 11:45	1.31	0.13	0.012
2/27/2014 11:50	1.352	0.08	0.008
2/27/2014 11:55	1.318	0.09	0.009
2/27/2014 12:00	1.327	0.1	0.01
2/27/2014 12:05	1.335	0.09	0.008
2/27/2014 12:10	1.327	0.09	0.009
2/27/2014 12:15	1.335	0.09	0.009
2/27/2014 12:20	1.292	0.09	0.009
2/27/2014 12:25	1.292	0.09	0.008
2/27/2014 12:30	1.301	0.08	0.008
2/27/2014 12:35	1.284	0.07	0.007
2/27/2014 12:40	1.292	0.09	0.008
2/27/2014 12:45	1.284	0.09	0.008
2/27/2014 12:50	1.292	0.07	0.007
2/27/2014 12:55	1.275	0.07	0.006
2/27/2014 13:00	1.267	0.07	0.006
2/27/2014 13:05	1.275	0.07	0.006
2/27/2014 13:10	1.258	0.08	0.007
2/27/2014 13:15	1.275	0.06	0.006
2/27/2014 13:20	1.258	0.06	0.005
2/27/2014 13:25	1.275	0.07	0.006
2/27/2014 13:30	1.275	0.07	0.007
2/27/2014 13:35	1.258	0.11	0.01
2/27/2014 13:40	1.275	0.09	0.009
2/27/2014 13:45	1.292	0.13	0.012
2/27/2014 13:50	1.284	0.12	0.011
2/27/2014 13:55	1.284	0.1	0.009
2/27/2014 14:00	1.267	0.1	0.009
2/27/2014 14:05	1.232	0.08	0.007
2/27/2014 14:10	1.232	0.06	0.005
2/27/2014 14:15	1.275	0.06	0.005
2/27/2014 14:20	1.232	0.05	0.004
2/27/2014 14:25	1.267	0.05	0.004
2/27/2014 14:30	1.232	0.05	0.004
2/27/2014 14:35	1.224	0.13	0.011
2/27/2014 14:40	1.232	0.1	0.009
2/27/2014 14:45	1.224	0.11	0.009
2/27/2014 14:50	1.181	0.13	0.01

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/27/2014 14:55	1.198	0.11	0.01
2/27/2014 15:00	1.198	0.12	0.01
2/27/2014 15:05	1.19	0.08	0.007
2/27/2014 15:10	1.19	0.07	0.006
2/27/2014 15:15	1.19	0.07	0.006
2/27/2014 15:20	1.198	0.07	0.006
2/27/2014 15:25	1.181	0.07	0.005
2/27/2014 15:30	1.19	0.07	0.006
2/27/2014 15:35	1.198	0.06	0.005
2/27/2014 15:40	1.164	0.06	0.005
2/27/2014 15:45	1.19	0.06	0.005
2/27/2014 15:50	1.181	0.06	0.005
2/27/2014 15:55	1.207	0.05	0.005
2/27/2014 16:00	1.172	0.06	0.004
2/27/2014 16:05	1.181	0.06	0.005
2/27/2014 16:10	1.198	0.06	0.005
2/27/2014 16:15	1.198	0.05	0.004
2/27/2014 16:20	1.19	0.05	0.004
2/27/2014 16:25	1.198	0.05	0.004
2/27/2014 16:30	1.172	0.05	0.004
2/27/2014 16:35	1.181	0.05	0.004
2/27/2014 16:40	1.181	0.06	0.005
2/27/2014 16:45	1.155	0.06	0.005
2/27/2014 16:50	1.19	0.06	0.005
2/27/2014 16:55	1.181	0.06	0.005
2/27/2014 17:00	1.181	0.05	0.004
2/27/2014 17:05	1.19	0.06	0.005
2/27/2014 17:10	1.181	0.05	0.004
2/27/2014 17:15	1.19	0.05	0.004
2/27/2014 17:20	1.207	0.06	0.005
2/27/2014 17:25	1.181	0.05	0.004
2/27/2014 17:30	1.172	0.05	0.004
2/27/2014 17:35	1.155	0.05	0.004
2/27/2014 17:40	1.155	0.06	0.004
2/27/2014 17:45	1.164	0.06	0.005
2/27/2014 17:50	1.172	0.06	0.005
2/27/2014 17:55	1.147	0.07	0.006
2/27/2014 18:00	1.147	0.08	0.006
2/27/2014 18:05	1.155	0.08	0.006
2/27/2014 18:10	1.13	0.08	0.006
2/27/2014 18:15	1.155	0.08	0.006
2/27/2014 18:20	1.13	0.07	0.006
2/27/2014 18:25	1.155	0.06	0.005
2/27/2014 18:30	1.13	0.08	0.006
2/27/2014 18:35	1.138	0.06	0.004

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/27/2014 18:40	1.155	0.07	0.005
2/27/2014 18:45	1.138	0.07	0.006
2/27/2014 18:50	1.13	0.07	0.005
2/27/2014 18:55	1.138	0.07	0.005
2/27/2014 19:00	1.147	0.06	0.005
2/27/2014 19:05	1.155	0.07	0.006
2/27/2014 19:10	1.121	0.06	0.004
2/27/2014 19:15	1.147	0.05	0.004
2/27/2014 19:20	1.13	0.05	0.004
2/27/2014 19:25	1.121	0.05	0.004
2/27/2014 19:30	1.138	0.05	0.004
2/27/2014 19:35	1.155	0.04	0.003
2/27/2014 19:40	1.13	0.04	0.003
2/27/2014 19:45	1.13	0.05	0.004
2/27/2014 19:50	1.13	0.05	0.004
2/27/2014 19:55	1.138	0.05	0.004
2/27/2014 20:00	1.121	0.07	0.005
2/27/2014 20:05	1.087	0.07	0.005
2/27/2014 20:10	1.121	0.1	0.007
2/27/2014 20:15	1.104	0.11	0.008
2/27/2014 20:20	1.087	0.1	0.007
2/27/2014 20:25	1.121	0.11	0.008
2/27/2014 20:30	1.121	0.09	0.007
2/27/2014 20:35	1.13	0.09	0.007
2/27/2014 20:40	1.104	0.1	0.007
2/27/2014 20:45	1.13	0.07	0.006
2/27/2014 20:50	1.104	0.08	0.006
2/27/2014 20:55	1.121	0.06	0.005
2/27/2014 21:00	1.13	0.06	0.004
2/27/2014 21:05	1.138	0.06	0.005
2/27/2014 21:10	1.087	0.05	0.004
2/27/2014 21:15	1.138	0.05	0.004
2/27/2014 21:20	1.121	0.06	0.005
2/27/2014 21:25	1.078	0.05	0.004
2/27/2014 21:30	1.13	0.04	0.003
2/27/2014 21:35	1.112	0.05	0.004
2/27/2014 21:40	1.07	0.05	0.003
2/27/2014 21:45	1.087	0.05	0.004
2/27/2014 21:50	1.121	0.05	0.004
2/27/2014 21:55	1.112	0.05	0.003
2/27/2014 22:00	1.121	0.04	0.003
2/27/2014 22:05	1.104	0.05	0.004
2/27/2014 22:10	1.121	0.04	0.003
2/27/2014 22:15	1.104	0.04	0.003
2/27/2014 22:20	1.112	0.04	0.003

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/27/2014 22:25	1.121	0.04	0.003
2/27/2014 22:30	1.121	0.05	0.004
2/27/2014 22:35	1.078	0.06	0.004
2/27/2014 22:40	1.087	0.05	0.004
2/27/2014 22:45	1.087	0.05	0.004
2/27/2014 22:50	1.087	0.06	0.004
2/27/2014 22:55	1.095	0.04	0.003
2/27/2014 23:00	1.104	0.06	0.004
2/27/2014 23:05	1.095	0.07	0.005
2/27/2014 23:10	1.104	0.05	0.004
2/27/2014 23:15	1.104	0.07	0.005
2/27/2014 23:20	1.138	0.14	0.011
2/27/2014 23:25	1.147	0.16	0.013
2/27/2014 23:30	1.155	0.15	0.012
2/27/2014 23:35	1.215	0.19	0.016
2/27/2014 23:40	1.267	0.23	0.021
2/27/2014 23:45	1.37	0.25	0.025
2/27/2014 23:50	1.464	0.3	0.034
2/27/2014 23:55	1.618	0.33	0.043
2/28/2014 0:00	1.678	0.33	0.046
2/28/2014 0:05	1.858	0.41	0.066
2/28/2014 0:10	2.012	0.44	0.08
2/28/2014 0:15	2.167	0.5	0.102
2/28/2014 0:20	2.295	0.55	0.121
2/28/2014 0:25	2.467	0.6	0.146
2/28/2014 0:30	2.664	0.7	0.191
2/28/2014 0:35	2.947	0.77	0.246
2/28/2014 0:40	3.033	0.76	0.253
2/28/2014 0:45	3.127	0.8	0.277
2/28/2014 0:50	3.135	0.8	0.279
2/28/2014 0:55	3.093	0.79	0.269
2/28/2014 1:00	3.084	0.76	0.258
2/28/2014 1:05	3.17	0.8	0.284
2/28/2014 1:10	3.298	0.83	0.313
2/28/2014 1:15	3.418	0.83	0.331
2/28/2014 1:20	3.435	0.83	0.333
2/28/2014 1:25	3.435	0.84	0.337
2/28/2014 1:30	3.495	0.89	0.366
2/28/2014 1:35	3.607	0.92	0.397
2/28/2014 1:40	3.864	0.96	0.456
2/28/2014 1:45	4.121	1.04	0.544
2/28/2014 1:50	4.344	1.1	0.62
2/28/2014 1:55	4.507	1.1	0.656
2/28/2014 2:00	4.636	1.13	0.705
2/28/2014 2:05	5.073	1.3	0.921

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/28/2014 2:10	5.904	1.47	1.299
2/28/2014 2:15	6.153	0.92	1.852
2/28/2014 2:20	5.973	0.32	2.405
2/28/2014 2:25	5.964	0.1	2.958
2/28/2014 2:30	6.23	0.29	3.511
2/28/2014 2:35	7.524	0.54	4.064
2/28/2014 2:40	6.987	4.08	4.617
2/28/2014 2:45	4.435	5.25	3.056
2/28/2014 2:50	4.68	5.2	3.277
2/28/2014 2:55	4.705	5.31	3.375
2/28/2014 3:00	4.741	5.33	3.426
2/28/2014 3:05	4.643	5.17	3.218
2/28/2014 3:10	4.764	5.27	3.408
2/28/2014 3:15	4.931	5.36	3.649
2/28/2014 3:20	5.016	5.29	3.688
2/28/2014 3:25	7.461	2.79	3.477
2/28/2014 3:30	7.164	2.06	2.412
2/28/2014 3:35	6.419	1.8	1.802
2/28/2014 3:40	5.716	1.66	1.401
2/28/2014 3:45	5.338	1.37	1.047
2/28/2014 3:50	4.97	1.35	0.927
2/28/2014 3:55	4.67	1.22	0.763
2/28/2014 4:00	4.704	1.26	0.799
2/28/2014 4:05	6.53	1.93	1.982
2/28/2014 4:10	7.814	2.5	3.321
2/28/2014 4:15	8.083	2.45	3.426
2/28/2014 4:20	8.085	2.41	3.374
2/28/2014 4:25	7.809	2.47	3.285
2/28/2014 4:30	8.166	2.78	3.936
2/28/2014 4:35	6.099	4.95	4.592
2/28/2014 4:40	5.162	5.37	3.907
2/28/2014 4:45	5.041	5.28	3.714
2/28/2014 4:50	6.89	3.67	4.07
2/28/2014 4:55	7.485	2.35	2.942
2/28/2014 5:00	6.513	1.84	1.877
2/28/2014 5:05	5.827	1.51	1.315
2/28/2014 5:10	5.287	1.42	1.071
2/28/2014 5:15	4.816	1.18	0.774
2/28/2014 5:20	4.533	1.08	0.651
2/28/2014 5:25	4.25	1.07	0.586
2/28/2014 5:30	4.001	0.99	0.494
2/28/2014 5:35	3.847	0.95	0.448
2/28/2014 5:40	3.675	0.95	0.418
2/28/2014 5:45	3.547	0.9	0.378
2/28/2014 5:50	3.418	0.87	0.347

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/28/2014 5:55	3.298	0.87	0.329
2/28/2014 6:00	3.17	0.85	0.3
2/28/2014 6:05	3.084	0.8	0.273
2/28/2014 6:10	2.981	0.78	0.254
2/28/2014 6:15	2.904	0.76	0.236
2/28/2014 6:20	2.827	0.73	0.219
2/28/2014 6:25	2.741	0.68	0.194
2/28/2014 6:30	2.655	0.67	0.183
2/28/2014 6:35	2.655	0.64	0.176
2/28/2014 6:40	2.647	0.65	0.175
2/28/2014 6:45	2.638	0.66	0.178
2/28/2014 6:50	2.655	0.65	0.178
2/28/2014 6:55	2.681	0.67	0.186
2/28/2014 7:00	2.638	0.64	0.174
2/28/2014 7:05	2.655	0.64	0.175
2/28/2014 7:10	2.69	0.69	0.191
2/28/2014 7:15	2.664	0.64	0.176
2/28/2014 7:20	2.715	0.71	0.201
2/28/2014 7:25	3.307	0.91	0.342
2/28/2014 7:30	4.138	1.06	0.557
2/28/2014 7:35	4.438	1.12	0.651
2/28/2014 7:40	4.756	1.29	0.835
2/28/2014 7:45	6.179	1.72	1.63
2/28/2014 7:50	7.636	2.13	2.737
2/28/2014 7:55	8.195	2.47	3.528
2/28/2014 8:00	7.947	2.34	3.194
2/28/2014 8:05	7.576	2.18	2.774
2/28/2014 8:10	7.19	2.09	2.467
2/28/2014 8:15	7.43	2.29	2.832
2/28/2014 8:20	6.035	5.03	4.603
2/28/2014 8:25	4.949	5.51	3.772
2/28/2014 8:30	5.145	5.42	3.923
2/28/2014 8:35	5.525	4.89	3.934
2/28/2014 8:40	7.323	2.48	3.007
2/28/2014 8:45	6.719	2	2.14
2/28/2014 8:50	5.913	1.72	1.525
2/28/2014 8:55	5.244	1.51	1.127
2/28/2014 9:00	4.893	1.25	0.842
2/28/2014 9:05	4.704	1.2	0.762
2/28/2014 9:10	4.824	1.25	0.825
2/28/2014 9:15	5.098	1.42	1.016
2/28/2014 9:20	6.144	1.68	1.576
2/28/2014 9:25	6.993	2.05	2.321
2/28/2014 9:30	7.602	2.26	2.888
2/28/2014 9:35	7.869	2.34	3.149

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/28/2014 9:40	7.605	2.26	2.886
2/28/2014 9:45	6.984	2.08	2.357
2/28/2014 9:50	6.41	1.73	1.723
2/28/2014 9:55	5.981	1.72	1.553
2/28/2014 10:00	5.647	1.6	1.324
2/28/2014 10:05	5.416	1.44	1.126
2/28/2014 10:10	5.133	1.39	1.006
2/28/2014 10:15	4.858	1.31	0.869
2/28/2014 10:20	4.618	1.14	0.707
2/28/2014 10:25	4.327	1.03	0.579
2/28/2014 10:30	4.078	1.04	0.535
2/28/2014 10:35	3.915	1.01	0.488
2/28/2014 10:40	3.693	0.93	0.412
2/28/2014 10:45	3.513	0.89	0.368
2/28/2014 10:50	3.375	0.85	0.33
2/28/2014 10:55	3.195	0.81	0.293
2/28/2014 11:00	3.075	0.78	0.265
2/28/2014 11:05	2.981	0.77	0.251
2/28/2014 11:10	2.87	0.71	0.217
2/28/2014 11:15	2.758	0.7	0.203
2/28/2014 11:20	2.664	0.67	0.183
2/28/2014 11:25	2.595	0.62	0.164
2/28/2014 11:30	2.553	0.61	0.157
2/28/2014 11:35	2.458	0.6	0.145
2/28/2014 11:40	2.415	0.6	0.141
2/28/2014 11:45	2.364	0.54	0.124
2/28/2014 11:50	2.278	0.54	0.118
2/28/2014 11:55	2.227	0.52	0.109
2/28/2014 12:00	2.227	0.52	0.109
2/28/2014 12:05	2.21	0.49	0.102
2/28/2014 12:10	2.167	0.49	0.098
2/28/2014 12:15	2.107	0.49	0.094
2/28/2014 12:20	2.107	0.46	0.089
2/28/2014 12:25	2.098	0.42	0.081
2/28/2014 12:30	2.047	0.46	0.085
2/28/2014 12:35	2.004	0.38	0.069
2/28/2014 12:40	1.978	0.39	0.068
2/28/2014 12:45	1.987	0.39	0.069
2/28/2014 12:50	1.961	0.4	0.07
2/28/2014 12:55	1.944	0.37	0.064
2/28/2014 13:00	1.918	0.37	0.062
2/28/2014 13:05	1.884	0.35	0.058
2/28/2014 13:10	1.867	0.33	0.054
2/28/2014 13:15	1.807	0.31	0.047
2/28/2014 13:20	1.832	0.35	0.055

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/28/2014 13:25	1.798	0.29	0.044
2/28/2014 13:30	1.807	0.32	0.049
2/28/2014 13:35	1.781	0.32	0.049
2/28/2014 13:40	1.772	0.27	0.041
2/28/2014 13:45	1.772	0.32	0.048
2/28/2014 13:50	1.772	0.28	0.042
2/28/2014 13:55	1.764	0.3	0.045
2/28/2014 14:00	1.815	0.32	0.049
2/28/2014 14:05	1.85	0.39	0.062
2/28/2014 14:10	2.124	0.53	0.104
2/28/2014 14:15	3.427	0.95	0.378
2/28/2014 14:20	4.267	1.09	0.6
2/28/2014 14:25	4.627	1.13	0.702
2/28/2014 14:30	4.841	1.26	0.834
2/28/2014 14:35	4.678	1.16	0.728
2/28/2014 14:40	4.413	1.04	0.598
2/28/2014 14:45	4.096	1	0.517
2/28/2014 14:50	3.83	0.95	0.444
2/28/2014 14:55	3.667	0.91	0.402
2/28/2014 15:00	3.658	0.9	0.393
2/28/2014 15:05	3.598	0.93	0.397
2/28/2014 15:10	3.495	0.9	0.369
2/28/2014 15:15	3.401	0.86	0.34
2/28/2014 15:20	3.384	0.88	0.343
2/28/2014 15:25	3.581	0.9	0.384
2/28/2014 15:30	3.71	0.94	0.421
2/28/2014 15:35	3.984	1.01	0.503
2/28/2014 15:40	4.378	1.13	0.647
2/28/2014 15:45	4.944	1.22	0.835
2/28/2014 15:50	5.561	1.27	1.03
2/28/2014 15:55	5.896	1.5	1.328
2/28/2014 16:00	6.007	1.54	1.4
2/28/2014 16:05	6.093	1.72	1.591
2/28/2014 16:10	6.067	1.69	1.559
2/28/2014 16:15	5.759	1.56	1.334
2/28/2014 16:20	5.441	1.47	1.154
2/28/2014 16:25	5.064	1.31	0.93
2/28/2014 16:30	4.687	1.21	0.766
2/28/2014 16:35	4.327	1.12	0.632
2/28/2014 16:40	4.036	1.05	0.533
2/28/2014 16:45	3.804	0.98	0.457
2/28/2014 16:50	3.564	0.93	0.394
2/28/2014 16:55	3.375	0.86	0.335
2/28/2014 17:00	3.273	0.83	0.31
2/28/2014 17:05	3.093	0.76	0.26

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/28/2014 17:10	2.938	0.76	0.241
2/28/2014 17:15	2.827	0.71	0.213
2/28/2014 17:20	2.698	0.71	0.198
2/28/2014 17:25	2.63	0.65	0.174
2/28/2014 17:30	2.51	0.64	0.16
2/28/2014 17:35	2.458	0.61	0.148
2/28/2014 17:40	2.372	0.6	0.138
2/28/2014 17:45	2.33	0.56	0.125
2/28/2014 17:50	2.278	0.55	0.119
2/28/2014 17:55	2.261	0.53	0.114
2/28/2014 18:00	2.192	0.51	0.104
2/28/2014 18:05	2.141	0.49	0.096
2/28/2014 18:10	2.09	0.46	0.088
2/28/2014 18:15	2.09	0.45	0.085
2/28/2014 18:20	2.072	0.45	0.085
2/28/2014 18:25	2.012	0.46	0.083
2/28/2014 18:30	1.995	0.39	0.07
2/28/2014 18:35	1.952	0.37	0.064
2/28/2014 18:40	1.927	0.4	0.068
2/28/2014 18:45	1.91	0.39	0.065
2/28/2014 18:50	1.892	0.35	0.057
2/28/2014 18:55	1.892	0.34	0.057
2/28/2014 19:00	1.832	0.32	0.051
2/28/2014 19:05	1.815	0.28	0.044
2/28/2014 19:10	1.781	0.27	0.041
2/28/2014 19:15	1.781	0.24	0.036
2/28/2014 19:20	1.747	0.2	0.03
2/28/2014 19:25	1.738	0.24	0.034
2/28/2014 19:30	1.747	0.16	0.024
2/28/2014 19:35	1.755	0.2	0.03
2/28/2014 19:40	1.695	0.25	0.035
2/28/2014 19:45	1.67	0.21	0.029
2/28/2014 19:50	1.695	0.2	0.028
2/28/2014 19:55	1.678	0.23	0.032
2/28/2014 20:00	1.695	0.24	0.033
2/28/2014 20:05	1.644	0.12	0.016
2/28/2014 20:10	1.678	0.17	0.023
2/28/2014 20:15	1.635	0.28	0.037
2/28/2014 20:20	1.635	0.2	0.026
2/28/2014 20:25	1.627	0.16	0.02
2/28/2014 20:30	1.644	0.16	0.022
2/28/2014 20:35	1.618	0.18	0.024
2/28/2014 20:40	1.532	0.16	0.02
2/28/2014 20:45	1.618	0.21	0.027
2/28/2014 20:50	1.635	0.16	0.021

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
2/28/2014 20:55	1.601	0.19	0.024
2/28/2014 21:00	1.61	0.17	0.022
2/28/2014 21:05	1.575	0.2	0.025
2/28/2014 21:10	1.592	0.11	0.013
2/28/2014 21:15	1.567	0.14	0.018
2/28/2014 21:20	1.584	0.09	0.011
2/28/2014 21:25	1.558	0.08	0.01
2/28/2014 21:30	1.567	0.2	0.025
2/28/2014 21:35	1.584	0.24	0.031
2/28/2014 21:40	1.592	0.22	0.028
2/28/2014 21:45	1.55	0.16	0.02
2/28/2014 21:50	1.515	0.11	0.013
2/28/2014 21:55	1.524	0.08	0.009
2/28/2014 22:00	1.532	0.08	0.01
2/28/2014 22:05	1.524	0.13	0.016
2/28/2014 22:10	1.532	0.16	0.019
2/28/2014 22:15	1.532	0.2	0.024
2/28/2014 22:20	1.481	0.13	0.014
2/28/2014 22:25	1.524	0.08	0.01
2/28/2014 22:30	1.515	0.09	0.011
2/28/2014 22:35	1.515	0.09	0.011
2/28/2014 22:40	1.498	0.13	0.016
2/28/2014 22:45	1.507	0.15	0.018
2/28/2014 22:50	1.507	0.15	0.017
2/28/2014 22:55	1.481	0.15	0.017
2/28/2014 23:00	1.455	0.11	0.012
2/28/2014 23:05	1.481	0.12	0.014
2/28/2014 23:10	1.472	0.09	0.011
2/28/2014 23:15	1.455	0.06	0.007
2/28/2014 23:20	1.481	0.05	0.006
2/28/2014 23:25	1.455	0.11	0.013
2/28/2014 23:30	1.447	0.12	0.013
2/28/2014 23:35	1.447	0.1	0.011
2/28/2014 23:40	1.472	0.22	0.025
2/28/2014 23:45	1.447	0.19	0.021
2/28/2014 23:50	1.455	0.22	0.025
2/28/2014 23:55	1.447	0.15	0.017
3/1/2014 0:00	1.447	0.1	0.011
3/1/2014 0:05	1.421	0.07	0.007
3/1/2014 0:10	1.421	0.07	0.007
3/1/2014 0:15	1.421	0.07	0.007
3/1/2014 0:20	1.447	0.09	0.009
3/1/2014 0:25	1.412	0.09	0.009
3/1/2014 0:30	1.438	0.12	0.013
3/1/2014 0:35	1.404	0.15	0.016

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/1/2014 0:40	1.412	0.12	0.012
3/1/2014 0:45	1.412	0.12	0.013
3/1/2014 0:50	1.421	0.14	0.015
3/1/2014 0:55	1.412	0.1	0.011
3/1/2014 1:00	1.395	0.1	0.01
3/1/2014 1:05	1.421	0.09	0.009
3/1/2014 1:10	1.421	0.09	0.01
3/1/2014 1:15	1.404	0.07	0.008
3/1/2014 1:20	1.387	0.12	0.012
3/1/2014 1:25	1.404	0.09	0.009
3/1/2014 1:30	1.361	0.1	0.01
3/1/2014 1:35	1.37	0.16	0.017
3/1/2014 1:40	1.395	0.14	0.015
3/1/2014 1:45	1.395	0.15	0.015
3/1/2014 1:50	1.395	0.14	0.015
3/1/2014 1:55	1.361	0.18	0.018
3/1/2014 2:00	1.352	0.18	0.018
3/1/2014 2:05	1.37	0.13	0.013
3/1/2014 2:10	1.37	0.09	0.009
3/1/2014 2:15	1.378	0.09	0.009
3/1/2014 2:20	1.344	0.06	0.006
3/1/2014 2:25	1.318	0.07	0.006
3/1/2014 2:30	1.352	0.06	0.006
3/1/2014 2:35	1.361	0.06	0.006
3/1/2014 2:40	1.352	0.06	0.006
3/1/2014 2:45	1.335	0.05	0.005
3/1/2014 2:50	1.361	0.05	0.005
3/1/2014 2:55	1.37	0.06	0.006
3/1/2014 3:00	1.361	0.05	0.005
3/1/2014 3:05	1.378	0.08	0.008
3/1/2014 3:10	1.352	0.09	0.009
3/1/2014 3:15	1.31	0.1	0.009
3/1/2014 3:20	1.335	0.08	0.008
3/1/2014 3:25	1.318	0.13	0.012
3/1/2014 3:30	1.335	0.14	0.014
3/1/2014 3:35	1.335	0.13	0.013
3/1/2014 3:40	1.318	0.19	0.018
3/1/2014 3:45	1.335	0.11	0.011
3/1/2014 3:50	1.344	0.14	0.014
3/1/2014 3:55	1.327	0.13	0.013
3/1/2014 4:00	1.284	0.13	0.012
3/1/2014 4:05	1.335	0.08	0.008
3/1/2014 4:10	1.318	0.06	0.006
3/1/2014 4:15	1.318	0.06	0.005
3/1/2014 4:20	1.318	0.05	0.005

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/1/2014 4:25	1.327	0.06	0.006
3/1/2014 4:30	1.318	0.06	0.005
3/1/2014 4:35	1.31	0.07	0.006
3/1/2014 4:40	1.318	0.07	0.007
3/1/2014 4:45	1.352	0.08	0.008
3/1/2014 4:50	1.361	0.17	0.017
3/1/2014 4:55	1.387	0.08	0.008
3/1/2014 5:00	1.378	0.09	0.009
3/1/2014 5:05	1.378	0.11	0.011
3/1/2014 5:10	1.404	0.18	0.019
3/1/2014 5:15	1.412	0.15	0.016
3/1/2014 5:20	1.472	0.18	0.021
3/1/2014 5:25	1.49	0.25	0.029
3/1/2014 5:30	1.481	0.27	0.031
3/1/2014 5:35	1.481	0.25	0.029
3/1/2014 5:40	1.507	0.23	0.027
3/1/2014 5:45	1.541	0.24	0.03
3/1/2014 5:50	1.532	0.28	0.034
3/1/2014 5:55	1.55	0.24	0.029
3/1/2014 6:00	1.524	0.2	0.024
3/1/2014 6:05	1.507	0.26	0.03
3/1/2014 6:10	1.507	0.23	0.027
3/1/2014 6:15	1.507	0.19	0.022
3/1/2014 6:20	1.464	0.17	0.019
3/1/2014 6:25	1.498	0.14	0.017
3/1/2014 6:30	1.472	0.13	0.015
3/1/2014 6:35	1.43	0.2	0.022
3/1/2014 6:40	1.438	0.22	0.024
3/1/2014 6:45	1.464	0.21	0.023
3/1/2014 6:50	1.455	0.15	0.017
3/1/2014 6:55	1.438	0.14	0.015
3/1/2014 7:00	1.438	0.09	0.01
3/1/2014 7:05	1.43	0.11	0.012
3/1/2014 7:10	1.438	0.12	0.013
3/1/2014 7:15	1.455	0.08	0.009
3/1/2014 7:20	1.438	0.07	0.008
3/1/2014 7:25	1.395	0.07	0.008
3/1/2014 7:30	1.404	0.09	0.01
3/1/2014 7:35	1.412	0.17	0.018
3/1/2014 7:40	1.421	0.07	0.007
3/1/2014 7:45	1.412	0.06	0.006
3/1/2014 7:50	1.37	0.06	0.007
3/1/2014 7:55	1.404	0.09	0.01
3/1/2014 8:00	1.37	0.12	0.013
3/1/2014 8:05	1.378	0.09	0.009

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/1/2014 8:10	1.387	0.05	0.005
3/1/2014 8:15	1.352	0.05	0.005
3/1/2014 8:20	1.352	0.06	0.006
3/1/2014 8:25	1.361	0.07	0.007
3/1/2014 8:30	1.378	0.07	0.007
3/1/2014 8:35	1.361	0.11	0.012
3/1/2014 8:40	1.361	0.12	0.012
3/1/2014 8:45	1.327	0.08	0.007
3/1/2014 8:50	1.378	0.06	0.006
3/1/2014 8:55	1.361	0.07	0.007
3/1/2014 9:00	1.352	0.06	0.006
3/1/2014 9:05	1.361	0.08	0.008
3/1/2014 9:10	1.327	0.1	0.009
3/1/2014 9:15	1.37	0.07	0.007
3/1/2014 9:20	1.335	0.08	0.007
3/1/2014 9:25	1.327	0.06	0.005
3/1/2014 9:30	1.327	0.05	0.005
3/1/2014 9:35	1.301	0.06	0.006
3/1/2014 9:40	1.31	0.08	0.007
3/1/2014 9:45	1.275	0.09	0.008
3/1/2014 9:50	1.284	0.09	0.008
3/1/2014 9:55	1.301	0.07	0.007
3/1/2014 10:00	1.267	0.07	0.006
3/1/2014 10:05	1.275	0.07	0.007
3/1/2014 10:10	1.284	0.06	0.006
3/1/2014 10:15	1.301	0.07	0.007
3/1/2014 10:20	1.292	0.06	0.005
3/1/2014 10:25	1.284	0.06	0.005
3/1/2014 10:30	1.284	0.08	0.007
3/1/2014 10:35	1.258	0.07	0.006
3/1/2014 10:40	1.25	0.08	0.007
3/1/2014 10:45	1.275	0.06	0.006
3/1/2014 10:50	1.258	0.06	0.005
3/1/2014 10:55	1.284	0.05	0.005
3/1/2014 11:00	1.258	0.06	0.005
3/1/2014 11:05	1.284	0.07	0.006
3/1/2014 11:10	1.275	0.07	0.006
3/1/2014 11:15	1.284	0.06	0.006
3/1/2014 11:20	1.267	0.07	0.007
3/1/2014 11:25	1.292	0.07	0.007
3/1/2014 11:30	1.275	0.07	0.006
3/1/2014 11:35	1.292	0.06	0.006
3/1/2014 11:40	1.292	0.08	0.008
3/1/2014 11:45	1.224	0.08	0.007
3/1/2014 11:50	1.232	0.06	0.006

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/1/2014 11:55	1.224	0.08	0.006
3/1/2014 12:00	1.198	0.08	0.007
3/1/2014 12:05	1.232	0.12	0.011
3/1/2014 12:10	1.25	0.07	0.006
3/1/2014 12:15	1.232	0.07	0.006
3/1/2014 12:20	1.241	0.08	0.007
3/1/2014 12:25	1.25	0.06	0.006
3/1/2014 12:30	1.25	0.06	0.005
3/1/2014 12:35	1.232	0.06	0.005
3/1/2014 12:40	1.215	0.06	0.005
3/1/2014 12:45	1.241	0.05	0.005
3/1/2014 12:50	1.25	0.05	0.005
3/1/2014 12:55	1.258	0.05	0.004
3/1/2014 13:00	1.215	0.05	0.004
3/1/2014 13:05	1.207	0.05	0.004
3/1/2014 13:10	1.232	0.05	0.004
3/1/2014 13:15	1.198	0.05	0.004
3/1/2014 13:20	1.224	0.05	0.005
3/1/2014 13:25	1.198	0.06	0.005
3/1/2014 13:30	1.232	0.06	0.005
3/1/2014 13:35	1.224	0.05	0.005
3/1/2014 13:40	1.232	0.06	0.005
3/1/2014 13:45	1.215	0.06	0.005
3/1/2014 13:50	1.224	0.06	0.006
3/1/2014 13:55	1.601	0.4	0.051
3/1/2014 14:00	4.147	1.14	0.604
3/1/2014 14:05	6.65	1.91	2.015
3/1/2014 14:10	7.965	2.39	3.269
3/1/2014 14:15	8.046	3.08	4.282
3/1/2014 14:20	6.74	4.12	4.43
3/1/2014 14:25	5.428	4.86	3.806
3/1/2014 14:30	4.643	5.35	3.33
3/1/2014 14:35	4.61	5.39	3.32
3/1/2014 14:40	4.918	5.33	3.614
3/1/2014 14:45	7.208	2.66	3.152
3/1/2014 14:50	6.813	1.81	1.975
3/1/2014 14:55	5.913	1.69	1.5
3/1/2014 15:00	5.21	1.4	1.031
3/1/2014 15:05	4.653	1.34	0.834
3/1/2014 15:10	4.293	1.08	0.6
3/1/2014 15:15	4.01	1.03	0.516
3/1/2014 15:20	3.83	0.95	0.446
3/1/2014 15:25	3.607	0.91	0.39
3/1/2014 15:30	3.47	0.91	0.367
3/1/2014 15:35	3.29	0.87	0.326

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/1/2014 15:40	3.144	0.74	0.26
3/1/2014 15:45	3.024	0.77	0.254
3/1/2014 15:50	2.904	0.76	0.237
3/1/2014 15:55	4.061	1.39	0.713
3/1/2014 16:00	6.877	5.72	6.327
3/1/2014 16:05	6.447	6.91	6.952
3/1/2014 16:10	7.359	6.19	7.546
3/1/2014 16:15	5.48	5.7	4.524
3/1/2014 16:20	4.889	5.33	3.58
3/1/2014 16:25	5.581	4.93	4.017
3/1/2014 16:30	7.203	3.51	4.154
3/1/2014 16:35	8.067	2.72	3.796
3/1/2014 16:40	7.919	2.69	3.642
3/1/2014 16:45	7.734	2.25	2.949
3/1/2014 16:50	7.3	2.31	2.782
3/1/2014 16:55	6.89	2.06	2.289
3/1/2014 17:00	6.436	1.85	1.853
3/1/2014 17:05	5.981	1.65	1.487
3/1/2014 17:10	5.544	1.54	1.247
3/1/2014 17:15	5.073	1.37	0.973
3/1/2014 17:20	4.756	1.17	0.757
3/1/2014 17:25	4.524	1.12	0.669
3/1/2014 17:30	4.318	1.05	0.589
3/1/2014 17:35	4.121	1.01	0.526
3/1/2014 17:40	3.975	0.98	0.487
3/1/2014 17:45	3.821	0.95	0.442
3/1/2014 17:50	3.675	0.96	0.426
3/1/2014 17:55	3.555	0.94	0.395
3/1/2014 18:00	3.47	0.9	0.366
3/1/2014 18:05	3.375	0.88	0.342
3/1/2014 18:10	3.273	0.82	0.305
3/1/2014 18:15	3.213	0.8	0.289
3/1/2014 18:20	3.11	0.8	0.277
3/1/2014 18:25	3.033	0.79	0.262
3/1/2014 18:30	2.955	0.75	0.24
3/1/2014 18:35	2.87	0.71	0.218
3/1/2014 18:40	2.81	0.65	0.194
3/1/2014 18:45	2.715	0.68	0.193
3/1/2014 18:50	2.681	0.65	0.181
3/1/2014 18:55	2.664	0.68	0.185
3/1/2014 19:00	2.835	0.73	0.22
3/1/2014 19:05	3.17	0.83	0.293
3/1/2014 19:10	3.701	1	0.447
3/1/2014 19:15	4.601	1.24	0.762
3/1/2014 19:20	6.016	1.66	1.514

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/1/2014 19:25	6.881	1.89	2.096
3/1/2014 19:30	7.224	1.76	2.09
3/1/2014 19:35	6.95	1.92	2.161
3/1/2014 19:40	6.47	1.84	1.866
3/1/2014 19:45	6.076	1.79	1.654
3/1/2014 19:50	5.613	1.42	1.168
3/1/2014 19:55	5.15	1.45	1.052
3/1/2014 20:00	4.764	1.23	0.793
3/1/2014 20:05	4.516	1.14	0.682
3/1/2014 20:10	4.258	1.09	0.599
3/1/2014 20:15	4.001	1.05	0.526
3/1/2014 20:20	3.795	0.96	0.442
3/1/2014 20:25	3.624	0.94	0.405
3/1/2014 20:30	3.435	0.88	0.353
3/1/2014 20:35	3.315	0.85	0.323
3/1/2014 20:40	3.195	0.8	0.289
3/1/2014 20:45	3.075	0.76	0.256
3/1/2014 20:50	2.964	0.74	0.238
3/1/2014 20:55	2.861	0.7	0.213
3/1/2014 21:00	2.81	0.72	0.214
3/1/2014 21:05	2.741	0.68	0.195
3/1/2014 21:10	2.647	0.63	0.171
3/1/2014 21:15	2.604	0.62	0.164
3/1/2014 21:20	2.535	0.61	0.155
3/1/2014 21:25	2.484	0.59	0.145
3/1/2014 21:30	2.441	0.56	0.136
3/1/2014 21:35	2.364	0.57	0.131
3/1/2014 21:40	2.355	0.56	0.129
3/1/2014 21:45	2.27	0.52	0.113
3/1/2014 21:50	2.235	0.54	0.115
3/1/2014 21:55	2.244	0.53	0.112
3/1/2014 22:00	2.201	0.51	0.104
3/1/2014 22:05	2.184	0.52	0.106
3/1/2014 22:10	2.132	0.49	0.097
3/1/2014 22:15	2.115	0.47	0.092
3/1/2014 22:20	2.098	0.49	0.093
3/1/2014 22:25	2.09	0.46	0.089
3/1/2014 22:30	2.038	0.46	0.084
3/1/2014 22:35	2.012	0.44	0.08
3/1/2014 22:40	1.978	0.44	0.077
3/1/2014 22:45	1.978	0.41	0.073
3/1/2014 22:50	1.935	0.4	0.068
3/1/2014 22:55	1.901	0.41	0.068
3/1/2014 23:00	1.927	0.39	0.066
3/1/2014 23:05	1.884	0.39	0.063

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/1/2014 23:10	1.858	0.34	0.055
3/1/2014 23:15	1.867	0.38	0.061
3/1/2014 23:20	1.824	0.33	0.052
3/1/2014 23:25	1.815	0.37	0.058
3/1/2014 23:30	1.832	0.34	0.054
3/1/2014 23:35	1.807	0.28	0.043
3/1/2014 23:40	1.781	0.3	0.045
3/1/2014 23:45	1.772	0.26	0.038
3/1/2014 23:50	1.79	0.31	0.046
3/1/2014 23:55	1.73	0.25	0.035
3/2/2014 0:00	1.772	0.21	0.031
3/2/2014 0:05	1.764	0.26	0.039
3/2/2014 0:10	1.73	0.28	0.04
3/2/2014 0:15	1.755	0.21	0.031
3/2/2014 0:20	1.738	0.1	0.014
3/2/2014 0:25	1.721	0.27	0.038
3/2/2014 0:30	1.687	0.18	0.025
3/2/2014 0:35	1.704	0.11	0.015
3/2/2014 0:40	1.627	0.12	0.015
3/2/2014 0:45	1.644	0.22	0.029
3/2/2014 0:50	1.652	0.16	0.021
3/2/2014 0:55	1.627	0.14	0.019
3/2/2014 1:00	1.635	0.16	0.021
3/2/2014 1:05	1.644	0.11	0.014
3/2/2014 1:10	1.618	0.19	0.025
3/2/2014 1:15	1.635	0.25	0.033
3/2/2014 1:20	1.61	0.17	0.022
3/2/2014 1:25	1.618	0.15	0.02
3/2/2014 1:30	1.644	0.15	0.02
3/2/2014 1:35	1.601	0.08	0.011
3/2/2014 1:40	1.67	0.07	0.01
3/2/2014 1:45	1.618	0.12	0.015
3/2/2014 1:50	1.61	0.14	0.018
3/2/2014 1:55	1.678	0.16	0.023
3/2/2014 2:00	1.661	0.19	0.025
3/2/2014 2:05	1.652	0.16	0.021
3/2/2014 2:10	1.678	0.21	0.029
3/2/2014 2:15	1.695	0.23	0.032
3/2/2014 2:20	1.678	0.09	0.012
3/2/2014 2:25	1.635	0.08	0.01
3/2/2014 2:30	1.644	0.09	0.012
3/2/2014 2:35	1.592	0.09	0.011
3/2/2014 2:40	1.644	0.15	0.02
3/2/2014 2:45	1.627	0.1	0.013
3/2/2014 2:50	1.61	0.12	0.016

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/2/2014 2:55	1.601	0.09	0.012
3/2/2014 3:00	1.618	0.08	0.011
3/2/2014 3:05	1.575	0.07	0.009
3/2/2014 3:10	1.558	0.11	0.014
3/2/2014 3:15	1.601	0.19	0.025
3/2/2014 3:20	1.567	0.16	0.019
3/2/2014 3:25	1.558	0.12	0.015
3/2/2014 3:30	1.567	0.05	0.007
3/2/2014 3:35	1.541	0.09	0.011
3/2/2014 3:40	1.541	0.16	0.019
3/2/2014 3:45	1.558	0.21	0.026
3/2/2014 3:50	1.584	0.26	0.033
3/2/2014 3:55	1.55	0.19	0.024
3/2/2014 4:00	1.541	0.1	0.012
3/2/2014 4:05	1.558	0.06	0.007
3/2/2014 4:10	1.532	0.08	0.01
3/2/2014 4:15	1.541	0.11	0.013
3/2/2014 4:20	1.515	0.16	0.019
3/2/2014 4:25	1.49	0.17	0.02
3/2/2014 4:30	1.541	0.13	0.015
3/2/2014 4:35	1.515	0.09	0.011
3/2/2014 4:40	1.524	0.12	0.015
3/2/2014 4:45	1.515	0.17	0.021
3/2/2014 4:50	1.507	0.09	0.01
3/2/2014 4:55	1.507	0.09	0.01
3/2/2014 5:00	1.498	0.07	0.009
3/2/2014 5:05	1.507	0.06	0.008
3/2/2014 5:10	1.481	0.16	0.018
3/2/2014 5:15	1.472	0.16	0.018
3/2/2014 5:20	1.498	0.19	0.022
3/2/2014 5:25	1.455	0.2	0.022
3/2/2014 5:30	1.438	0.1	0.011
3/2/2014 5:35	1.481	0.06	0.007
3/2/2014 5:40	1.447	0.06	0.006
3/2/2014 5:45	1.455	0.06	0.007
3/2/2014 5:50	1.438	0.08	0.008
3/2/2014 5:55	1.455	0.11	0.013
3/2/2014 6:00	1.438	0.17	0.019
3/2/2014 6:05	1.43	0.14	0.015
3/2/2014 6:10	1.395	0.1	0.011
3/2/2014 6:15	1.447	0.1	0.011
3/2/2014 6:20	1.464	0.13	0.015
3/2/2014 6:25	1.438	0.05	0.005
3/2/2014 6:30	1.43	0.07	0.007
3/2/2014 6:35	1.447	0.09	0.009

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/2/2014 6:40	1.447	0.09	0.01
3/2/2014 6:45	1.404	0.12	0.013
3/2/2014 6:50	1.395	0.1	0.01
3/2/2014 6:55	1.464	0.13	0.015
3/2/2014 7:00	1.541	0.09	0.011
3/2/2014 7:05	1.584	0.15	0.02
3/2/2014 7:10	1.635	0.25	0.033
3/2/2014 7:15	1.704	0.33	0.046
3/2/2014 7:20	1.798	0.31	0.047
3/2/2014 7:25	1.832	0.37	0.058
3/2/2014 7:30	1.867	0.38	0.062
3/2/2014 7:35	1.944	0.44	0.076
3/2/2014 7:40	1.961	0.4	0.069
3/2/2014 7:45	1.987	0.44	0.079
3/2/2014 7:50	1.952	0.4	0.069
3/2/2014 7:55	2.004	0.42	0.075
3/2/2014 8:00	1.995	0.41	0.074
3/2/2014 8:05	1.97	0.39	0.068
3/2/2014 8:10	1.927	0.42	0.071
3/2/2014 8:15	1.935	0.39	0.067
3/2/2014 8:20	1.91	0.26	0.044
3/2/2014 8:25	1.867	0.3	0.048
3/2/2014 8:30	1.841	0.36	0.057
3/2/2014 8:35	1.832	0.29	0.046
3/2/2014 8:40	1.747	0.24	0.035
3/2/2014 8:45	1.755	0.25	0.037
3/2/2014 8:50	1.695	0.25	0.035
3/2/2014 8:55	1.695	0.24	0.034
3/2/2014 9:00	1.67	0.22	0.03
3/2/2014 9:05	1.652	0.12	0.017
3/2/2014 9:10	1.652	0.21	0.028
3/2/2014 9:15	1.61	0.15	0.019
3/2/2014 9:20	1.644	0.08	0.011
3/2/2014 9:25	1.592	0.19	0.025
3/2/2014 9:30	1.592	0.12	0.016
3/2/2014 9:35	1.601	0.12	0.015
3/2/2014 9:40	1.567	0.23	0.028
3/2/2014 9:45	1.575	0.05	0.007
3/2/2014 9:50	1.541	0.12	0.014
3/2/2014 9:55	1.575	0.25	0.031
3/2/2014 10:00	1.618	0.19	0.025
3/2/2014 10:05	1.704	0.28	0.04
3/2/2014 10:10	1.935	0.41	0.07
3/2/2014 10:15	2.15	0.52	0.104
3/2/2014 10:20	2.501	0.61	0.153

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/2/2014 10:25	2.844	0.75	0.226
3/2/2014 10:30	3.221	0.84	0.305
3/2/2014 10:35	3.418	0.87	0.344
3/2/2014 10:40	3.495	0.88	0.36
3/2/2014 10:45	3.607	0.89	0.384
3/2/2014 10:50	3.667	0.91	0.4
3/2/2014 10:55	3.727	0.89	0.402
3/2/2014 11:00	3.684	0.91	0.401
3/2/2014 11:05	3.633	0.91	0.393
3/2/2014 11:10	3.538	0.86	0.357
3/2/2014 11:15	3.401	0.86	0.34
3/2/2014 11:20	3.29	0.81	0.303
3/2/2014 11:25	3.127	0.78	0.271
3/2/2014 11:30	3.033	0.73	0.241
3/2/2014 11:35	2.904	0.73	0.226
3/2/2014 11:40	2.784	0.7	0.204
3/2/2014 11:45	2.681	0.64	0.178
3/2/2014 11:50	2.57	0.63	0.164
3/2/2014 11:55	2.458	0.54	0.132
3/2/2014 12:00	2.381	0.54	0.126
3/2/2014 12:05	2.278	0.57	0.123
3/2/2014 12:10	2.21	0.5	0.103
3/2/2014 12:15	2.175	0.49	0.099
3/2/2014 12:20	2.141	0.46	0.092
3/2/2014 12:25	2.081	0.43	0.082
3/2/2014 12:30	2.055	0.42	0.078
3/2/2014 12:35	2.012	0.43	0.078
3/2/2014 12:40	1.935	0.38	0.064
3/2/2014 12:45	1.892	0.35	0.058
3/2/2014 12:50	1.841	0.26	0.042
3/2/2014 12:55	1.781	0.36	0.054
3/2/2014 13:00	1.772	0.3	0.045
3/2/2014 13:05	1.738	0.23	0.034
3/2/2014 13:10	1.712	0.2	0.029
3/2/2014 13:15	1.695	0.22	0.031
3/2/2014 13:20	1.678	0.19	0.027
3/2/2014 13:25	1.644	0.23	0.031
3/2/2014 13:30	1.618	0.14	0.018
3/2/2014 13:35	1.618	0.2	0.026
3/2/2014 13:40	1.584	0.18	0.023
3/2/2014 13:45	1.567	0.21	0.026
3/2/2014 13:50	1.532	0.22	0.026
3/2/2014 13:55	1.541	0.15	0.018
3/2/2014 14:00	1.498	0.23	0.027
3/2/2014 14:05	1.455	0.22	0.025

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/2/2014 14:10	1.472	0.13	0.015
3/2/2014 14:15	1.464	0.19	0.021
3/2/2014 14:20	1.438	0.19	0.021
3/2/2014 14:25	1.43	0.12	0.013
3/2/2014 14:30	1.43	0.15	0.016
3/2/2014 14:35	1.404	0.11	0.012
3/2/2014 14:40	1.387	0.16	0.017
3/2/2014 14:45	1.421	0.08	0.009
3/2/2014 14:50	1.395	0.09	0.01
3/2/2014 14:55	1.395	0.07	0.008
3/2/2014 15:00	1.387	0.14	0.015
3/2/2014 15:05	1.361	0.13	0.014
3/2/2014 15:10	1.378	0.11	0.012
3/2/2014 15:15	1.318	0.08	0.007
3/2/2014 15:20	1.327	0.06	0.006
3/2/2014 15:25	1.344	0.11	0.011
3/2/2014 15:30	1.361	0.1	0.01
3/2/2014 15:35	1.352	0.09	0.009
3/2/2014 15:40	1.318	0.1	0.01
3/2/2014 15:45	1.284	0.1	0.009
3/2/2014 15:50	1.327	0.08	0.007
3/2/2014 15:55	1.292	0.06	0.006
3/2/2014 16:00	1.327	0.08	0.008
3/2/2014 16:05	1.327	0.08	0.008
3/2/2014 16:10	1.327	0.06	0.006
3/2/2014 16:15	1.335	0.08	0.008
3/2/2014 16:20	1.292	0.08	0.008
3/2/2014 16:25	1.284	0.08	0.008
3/2/2014 16:30	1.318	0.1	0.009
3/2/2014 16:35	1.318	0.13	0.013
3/2/2014 16:40	1.335	0.1	0.01
3/2/2014 16:45	1.301	0.12	0.011
3/2/2014 16:50	1.318	0.11	0.01
3/2/2014 16:55	1.292	0.09	0.008
3/2/2014 17:00	1.318	0.12	0.011
3/2/2014 17:05	1.335	0.09	0.009
3/2/2014 17:10	1.292	0.1	0.009
3/2/2014 17:15	1.327	0.1	0.009
3/2/2014 17:20	1.275	0.07	0.007
3/2/2014 17:25	1.327	0.08	0.007
3/2/2014 17:30	1.292	0.07	0.006
3/2/2014 17:35	1.31	0.09	0.008
3/2/2014 17:40	1.31	0.08	0.007
3/2/2014 17:45	1.301	0.06	0.006
3/2/2014 17:50	1.284	0.07	0.006

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/2/2014 17:55	1.267	0.07	0.006
3/2/2014 18:00	1.284	0.07	0.006
3/2/2014 18:05	1.284	0.07	0.006
3/2/2014 18:10	1.292	0.06	0.006
3/2/2014 18:15	1.25	0.08	0.007
3/2/2014 18:20	1.258	0.08	0.007
3/2/2014 18:25	1.284	0.07	0.007
3/2/2014 18:30	1.284	0.07	0.006
3/2/2014 18:35	1.258	0.07	0.007
3/2/2014 18:40	1.31	0.06	0.006
3/2/2014 18:45	1.301	0.07	0.007
3/2/2014 18:50	1.318	0.09	0.008
3/2/2014 18:55	1.267	0.08	0.007
3/2/2014 19:00	1.275	0.06	0.006
3/2/2014 19:05	1.275	0.08	0.007
3/2/2014 19:10	1.275	0.07	0.006
3/2/2014 19:15	1.284	0.07	0.006
3/2/2014 19:20	1.292	0.07	0.006
3/2/2014 19:25	1.284	0.06	0.006
3/2/2014 19:30	1.284	0.07	0.006
3/2/2014 19:35	1.267	0.07	0.007
3/2/2014 19:40	1.25	0.06	0.005
3/2/2014 19:45	1.258	0.06	0.006
3/2/2014 19:50	1.275	0.07	0.006
3/2/2014 19:55	1.25	0.05	0.005
3/2/2014 20:00	1.241	0.06	0.006
3/2/2014 20:05	1.258	0.06	0.005
3/2/2014 20:10	1.284	0.08	0.007
3/2/2014 20:15	1.284	0.06	0.006
3/2/2014 20:20	1.25	0.06	0.005
3/2/2014 20:25	1.267	0.06	0.006
3/2/2014 20:30	1.267	0.06	0.005
3/2/2014 20:35	1.292	0.06	0.006
3/2/2014 20:40	1.284	0.06	0.005
3/2/2014 20:45	1.284	0.06	0.005
3/2/2014 20:50	1.275	0.06	0.005
3/2/2014 20:55	1.25	0.06	0.005
3/2/2014 21:00	1.292	0.06	0.006
3/2/2014 21:05	1.284	0.06	0.005
3/2/2014 21:10	1.275	0.06	0.005
3/2/2014 21:15	1.25	0.06	0.005
3/2/2014 21:20	1.267	0.06	0.005
3/2/2014 21:25	1.25	0.07	0.006
3/2/2014 21:30	1.25	0.06	0.006
3/2/2014 21:35	1.232	0.06	0.005

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
3/2/2014 21:40	1.25	0.06	0.006
3/2/2014 21:45	1.25	0.08	0.007
3/2/2014 21:50	1.224	0.07	0.006
3/2/2014 21:55	1.215	0.08	0.006
3/2/2014 22:00	1.25	0.09	0.008
3/2/2014 22:05	1.232	0.08	0.007
3/2/2014 22:10	1.215	0.09	0.007
3/2/2014 22:15	1.232	0.09	0.008
3/2/2014 22:20	1.241	0.1	0.009
3/2/2014 22:25	1.241	0.06	0.005
3/2/2014 22:30	1.241	0.06	0.005
3/2/2014 22:35	1.224	0.08	0.007
3/2/2014 22:40	1.258	0.07	0.006
3/2/2014 22:45	1.275	0.06	0.005
3/2/2014 22:50	1.241	0.06	0.005
3/2/2014 22:55	1.275	0.07	0.007
3/2/2014 23:00	1.275	0.07	0.006
3/2/2014 23:05	1.284	0.07	0.007
3/2/2014 23:10	1.258	0.07	0.006
3/2/2014 23:15	1.275	0.09	0.008
3/2/2014 23:20	1.267	0.12	0.011
3/2/2014 23:25	1.258	0.09	0.008
3/2/2014 23:30	1.25	0.09	0.008
3/2/2014 23:35	1.25	0.11	0.01
3/2/2014 23:40	1.232	0.08	0.007
3/2/2014 23:45	1.258	0.1	0.009
3/2/2014 23:50	1.25	0.07	0.006
3/2/2014 23:55	1.232	0.08	0.007

Table F-7. Storm 2 DC Flow

Date and Time	Level (inches)	Flow (cfs)
12/11/14 14:55	6.975	12.437
12/11/14 14:56		12.437
12/11/14 14:57		12.437
12/11/14 14:58		12.437
12/11/14 14:59		12.437
12/11/14 15:00	6.971	12.427
12/11/14 15:01		12.427
12/11/14 15:02		12.427
12/11/14 15:03		12.427
12/11/14 15:04		12.427
12/11/14 15:05	6.928	12.32
12/11/14 15:06		12.32
12/11/14 15:07		12.32
12/11/14 15:08		12.32
12/11/14 15:09		12.32
12/11/14 15:10	6.826	12.064
12/11/14 15:11		12.064
12/11/14 15:12		12.064
12/11/14 15:13		12.064
12/11/14 15:14		12.064
12/11/14 15:15	6.706	11.766
12/11/14 15:16		11.766
12/11/14 15:17		11.766
12/11/14 15:18		11.766
12/11/14 15:19		11.766
12/11/14 15:20	6.766	11.915
12/11/14 15:21		11.915
12/11/14 15:22		11.915
12/11/14 15:23		11.915
12/11/14 15:24		11.915
12/11/14 15:25	6.638	11.595
12/11/14 15:26		11.595
12/11/14 15:27		11.595
12/11/14 15:28		11.595
12/11/14 15:29		11.595
12/11/14 15:30	6.689	11.723
12/11/14 15:31		11.723
12/11/14 15:32		11.723
12/11/14 15:33		11.723
12/11/14 15:34		11.723
12/11/14 15:35	6.502	11.254
12/11/14 15:36		11.254
12/11/14 15:37		11.254

Date and Time	Level (inches)	Flow (cfs)
12/11/14 15:38		11.254
12/11/14 15:39		11.254
12/11/14 15:40	6.425	11.063
12/11/14 15:41		11.063
12/11/14 15:42		11.063
12/11/14 15:43		11.063
12/11/14 15:44		11.063
12/11/14 15:45	6.451	11.127
12/11/14 15:46		11.127
12/11/14 15:47		11.127
12/11/14 15:48		11.127
12/11/14 15:49		11.127
12/11/14 15:50	6.493	11.233
12/11/14 15:51		11.233
12/11/14 15:52		11.233
12/11/14 15:53		11.233
12/11/14 15:54		11.233
12/11/14 15:55	6.348	10.871
12/11/14 15:56		10.871
12/11/14 15:57		10.871
12/11/14 15:58		10.871
12/11/14 15:59		10.871
12/11/14 16:00	6.306	10.764
12/11/14 16:01		10.764
12/11/14 16:02		10.764
12/11/14 16:03		10.764
12/11/14 16:04		10.764
12/11/14 16:05	6.229	10.573
12/11/14 16:06		10.573
12/11/14 16:07		10.573
12/11/14 16:08		10.573
12/11/14 16:09		10.573
12/11/14 16:10	6.093	10.232
12/11/14 16:11		10.232
12/11/14 16:12		10.232
12/11/14 16:13		10.232
12/11/14 16:14		10.232
12/11/14 16:15	6.195	10.487
12/11/14 16:16		10.487
12/11/14 16:17		10.487
12/11/14 16:18		10.487
12/11/14 16:19		10.487
12/11/14 16:20	6.024	10.061
12/11/14 16:21		10.061
12/11/14 16:22		10.061

Date and Time	Level (inches)	Flow (cfs)
12/11/14 16:23		10.061
12/11/14 16:24		10.061
12/11/14 16:25	6.306	10.764
12/11/14 16:26		10.764
12/11/14 16:27		10.764
12/11/14 16:28		10.764
12/11/14 16:29		10.764
12/11/14 16:30	6.297	10.743
12/11/14 16:31		10.743
12/11/14 16:32		10.743
12/11/14 16:33		10.743
12/11/14 16:34		10.743
12/11/14 16:34		10.743
12/11/14 16:35	6.485	11.212
12/11/14 16:36		11.212
12/11/14 16:37		11.212
12/11/14 16:38		11.212
12/11/14 16:39		11.212
12/11/14 16:40	6.519	11.297
12/11/14 16:41		11.297
12/11/14 16:42		11.297
12/11/14 16:43		11.297
12/11/14 16:44		11.297
12/11/14 16:45	6.536	11.34
12/11/14 16:46		11.34
12/11/14 16:47		11.34
12/11/14 16:48		11.34
12/11/14 16:49		11.34
12/11/14 16:50	6.553	11.382
12/11/14 16:51		11.382
12/11/14 16:52		11.382
12/11/14 16:53		11.382
12/11/14 16:54		11.382
12/11/14 16:55	6.553	11.382
12/11/14 16:56		11.382
12/11/14 16:57		11.382
12/11/14 16:58		11.382
12/11/14 16:59		11.382
12/11/14 17:00	6.57	11.425
12/11/14 17:01		11.425
12/11/14 17:02		11.425
12/11/14 17:03		11.425
12/11/14 17:04		11.425
12/11/14 17:05	6.485	11.212
12/11/14 17:06		11.212

Date and Time	Level (inches)	Flow (cfs)
12/11/14 17:07		11.212
12/11/14 17:08		11.212
12/11/14 17:09		11.212
12/11/14 17:10	6.493	11.233
12/11/14 17:11		11.233
12/11/14 17:12		11.233
12/11/14 17:13		11.233
12/11/14 17:14		11.233
12/11/14 17:15	6.502	11.254
12/11/14 17:16		11.254
12/11/14 17:17		11.254
12/11/14 17:18		11.254
12/11/14 17:19		11.254
12/11/14 17:20	6.323	10.807
12/11/14 17:21		10.807
12/11/14 17:22		10.807
12/11/14 17:23		10.807
12/11/14 17:24		10.807
12/11/14 17:25	6.34	10.85
12/11/14 17:26		10.85
12/11/14 17:27		10.85
12/11/14 17:28		10.85
12/11/14 17:29		10.85
12/11/14 17:30	6.314	10.786
12/11/14 17:31		10.786
12/11/14 17:32		10.786
12/11/14 17:33		10.786
12/11/14 17:34		10.786
12/11/14 17:35	6.127	10.317
12/11/14 17:36		10.317
12/11/14 17:37		10.317
12/11/14 17:38		10.317
12/11/14 17:39		10.317
12/11/14 17:40	6.152	10.381
12/11/14 17:41		10.381
12/11/14 17:42		10.381
12/11/14 17:43		10.381
12/11/14 17:44		10.381
12/11/14 17:45	6.076	10.189
12/11/14 17:46		10.189
12/11/14 17:47		10.189
12/11/14 17:48		10.189
12/11/14 17:49		10.189
12/11/14 17:50	6.007	10.018
12/11/14 17:51		10.018

Date and Time	Level (inches)	Flow (cfs)
12/11/14 17:52		10.018
12/11/14 17:53		10.018
12/11/14 17:54		10.018
12/11/14 17:55	6.127	10.317
12/11/14 17:56		10.317
12/11/14 17:57		10.317
12/11/14 17:58		10.317
12/11/14 17:59		10.317
12/11/14 18:00	5.948	9.869
12/11/14 18:01		9.869
12/11/14 18:02		9.869
12/11/14 18:03		9.869
12/11/14 18:04		9.869
12/11/14 18:05	5.973	9.933
12/11/14 18:06		9.933
12/11/14 18:07		9.933
12/11/14 18:08		9.933
12/11/14 18:09		9.933
12/11/14 18:10	5.965	9.912
12/11/14 18:11		9.912
12/11/14 18:12		9.912
12/11/14 18:13		9.912
12/11/14 18:14		9.912
12/11/14 18:15	5.914	9.784
12/11/14 18:16		9.784
12/11/14 18:17		9.784
12/11/14 18:18		9.784
12/11/14 18:19		9.784
12/11/14 18:20	5.888	9.72
12/11/14 18:21		9.72
12/11/14 18:22		9.72
12/11/14 18:23		9.72
12/11/14 18:24		9.72
12/11/14 18:25	5.982	9.955
12/11/14 18:26		9.955
12/11/14 18:27		9.955
12/11/14 18:28		9.955
12/11/14 18:29		9.955
12/11/14 18:30	5.905	9.763
12/11/14 18:31		9.763
12/11/14 18:32		9.763
12/11/14 18:33		9.763
12/11/14 18:34		9.763
12/11/14 18:35	5.862	9.656
12/11/14 18:36		9.656

Date and Time	Level (inches)	Flow (cfs)
12/11/14 18:37		9.656
12/11/14 18:38		9.656
12/11/14 18:39		9.656
12/11/14 18:40	5.845	9.614
12/11/14 18:41		9.614
12/11/14 18:42		9.614
12/11/14 18:43		9.614
12/11/14 18:44		9.614
12/11/14 18:45	5.811	9.528
12/11/14 18:46		9.528
12/11/14 18:47		9.528
12/11/14 18:48		9.528
12/11/14 18:49		9.528
12/11/14 18:50	5.743	9.358
12/11/14 18:51		9.358
12/11/14 18:52		9.358
12/11/14 18:53		9.358
12/11/14 18:54		9.358
12/11/14 18:55	5.769	9.422
12/11/14 18:56		9.422
12/11/14 18:57		9.422
12/11/14 18:58		9.422
12/11/14 18:59		9.422
12/11/14 19:00	5.82	9.55
12/11/14 19:01		9.55
12/11/14 19:02		9.55
12/11/14 19:03		9.55
12/11/14 19:04		9.55
12/11/14 19:05	5.82	9.55
12/11/14 19:06		9.55
12/11/14 19:07		9.55
12/11/14 19:08		9.55
12/11/14 19:09		9.55
12/11/14 19:10	5.803	9.507
12/11/14 19:11		9.507
12/11/14 19:12		9.507
12/11/14 19:13		9.507
12/11/14 19:14		9.507
12/11/14 19:15	5.718	9.294
12/11/14 19:16		9.294
12/11/14 19:17		9.294
12/11/14 19:18		9.294
12/11/14 19:19		9.294
12/11/14 19:20	5.692	9.23
12/11/14 19:21		9.23

Date and Time	Level (inches)	Flow (cfs)
12/11/14 19:22		9.23
12/11/14 19:23		9.23
12/11/14 19:24		9.23
12/11/14 19:25	5.777	9.443
12/11/14 19:26		9.443
12/11/14 19:27		9.443
12/11/14 19:28		9.443
12/11/14 19:29		9.443
12/11/14 19:30	5.59	8.974
12/11/14 19:31		8.974
12/11/14 19:32		8.974
12/11/14 19:33		8.974
12/11/14 19:34		8.974
12/11/14 19:35	5.675	9.187
12/11/14 19:36		9.187
12/11/14 19:37		9.187
12/11/14 19:38		9.187
12/11/14 19:39		9.187
12/11/14 19:40	5.683	9.209
12/11/14 19:41		9.209
12/11/14 19:42		9.209
12/11/14 19:43		9.209
12/11/14 19:44		9.209
12/11/14 19:45	5.59	8.974
12/11/14 19:46		8.974
12/11/14 19:47		8.974
12/11/14 19:48		8.974
12/11/14 19:49		8.974
12/11/14 19:50	5.607	9.017
12/11/14 19:51		9.017
12/11/14 19:52		9.017
12/11/14 19:53		9.017
12/11/14 19:54		9.017
12/11/14 19:55	5.649	9.123
12/11/14 19:56		9.123
12/11/14 19:57		9.123
12/11/14 19:58		9.123
12/11/14 19:59		9.123
12/11/14 20:00	5.683	9.209
12/11/14 20:01		9.209
12/11/14 20:02		9.209
12/11/14 20:03		9.209
12/11/14 20:04		9.209
12/11/14 20:05	5.504	8.761
12/11/14 20:06		8.761

Date and Time	Level (inches)	Flow (cfs)
12/11/14 20:07		8.761
12/11/14 20:08		8.761
12/11/14 20:09		8.761
12/11/14 20:10	5.53	8.825
12/11/14 20:11		8.825
12/11/14 20:12		8.825
12/11/14 20:13		8.825
12/11/14 20:14		8.825
12/11/14 20:15	5.564	8.91
12/11/14 20:16		8.91
12/11/14 20:17		8.91
12/11/14 20:18		8.91
12/11/14 20:19		8.91
12/11/14 20:20	5.513	8.783
12/11/14 20:21		8.783
12/11/14 20:22		8.783
12/11/14 20:23		8.783
12/11/14 20:24		8.783
12/11/14 20:25	5.47	8.676
12/11/14 20:26		8.676
12/11/14 20:27		8.676
12/11/14 20:28		8.676
12/11/14 20:29		8.676
12/11/14 20:30	5.411	8.527
12/11/14 20:31		8.527
12/11/14 20:32		8.527
12/11/14 20:33		8.527
12/11/14 20:34		8.527
12/11/14 20:35	5.428	8.569
12/11/14 20:36		8.569
12/11/14 20:37		8.569
12/11/14 20:38		8.569
12/11/14 20:39		8.569
12/11/14 20:40	5.317	8.292
12/11/14 20:41		8.292
12/11/14 20:42		8.292
12/11/14 20:43		8.292
12/11/14 20:44		8.292
12/11/14 20:45	5.385	8.463
12/11/14 20:46		8.463
12/11/14 20:47		8.463
12/11/14 20:48		8.463
12/11/14 20:49		8.463
12/11/14 20:50	5.394	8.484
12/11/14 20:51		8.484

Date and Time	Level (inches)	Flow (cfs)
12/11/14 20:52		8.484
12/11/14 20:53		8.484
12/11/14 20:54		8.484
12/11/14 20:55	5.308	8.271
12/11/14 20:56		8.271
12/11/14 20:57		8.271
12/11/14 20:58		8.271
12/11/14 20:59		8.271
12/11/14 21:00	5.274	8.186
12/11/14 21:01		8.186
12/11/14 21:02		8.186
12/11/14 21:03		8.186
12/11/14 21:04		8.186
12/11/14 21:05	5.223	8.058
12/11/14 21:06		8.058
12/11/14 21:07		8.058
12/11/14 21:08		8.058
12/11/14 21:09		8.058
12/11/14 21:10	5.095	7.738
12/11/14 21:11		7.738
12/11/14 21:12		7.738
12/11/14 21:13		7.738
12/11/14 21:14		7.738
12/11/14 21:15	5.146	7.866
12/11/14 21:16		7.866
12/11/14 21:17		7.866
12/11/14 21:18		7.866
12/11/14 21:19		7.866
12/11/14 21:20	5.044	7.61
12/11/14 21:21		7.61
12/11/14 21:22		7.61
12/11/14 21:23		7.61
12/11/14 21:24		7.61
12/11/14 21:25	5.053	7.632
12/11/14 21:26		7.632
12/11/14 21:27		7.632
12/11/14 21:28		7.632
12/11/14 21:29		7.632
12/11/14 21:30	4.959	7.397
12/11/14 21:31		7.397
12/11/14 21:32		7.397
12/11/14 21:33		7.397
12/11/14 21:34		7.397
12/11/14 21:35	4.933	7.333
12/11/14 21:36		7.333

Date and Time	Level (inches)	Flow (cfs)
12/11/14 21:37		7.333
12/11/14 21:38		7.333
12/11/14 21:39		7.333
12/11/14 21:40	4.857	7.142
12/11/14 21:41		7.142
12/11/14 21:42		7.142
12/11/14 21:43		7.142
12/11/14 21:44		7.142
12/11/14 21:45	4.788	6.971
12/11/14 21:46		6.971
12/11/14 21:47		6.971
12/11/14 21:48		6.971
12/11/14 21:49		6.971
12/11/14 21:50	4.78	6.95
12/11/14 21:51		6.95
12/11/14 21:52		6.95
12/11/14 21:53		6.95
12/11/14 21:54		6.95
12/11/14 21:55	4.746	6.865
12/11/14 21:56		6.865
12/11/14 21:57		6.865
12/11/14 21:58		6.865
12/11/14 21:59		6.865
12/11/14 22:00	4.686	6.715
12/11/14 22:01		6.715
12/11/14 22:02		6.715
12/11/14 22:03		6.715
12/11/14 22:04		6.715
12/11/14 22:05	4.541	6.353
12/11/14 22:06		6.353
12/11/14 22:07		6.353
12/11/14 22:08		6.353
12/11/14 22:09		6.353
12/11/14 22:10	4.609	6.524
12/11/14 22:11		6.524
12/11/14 22:12		6.524
12/11/14 22:13		6.524
12/11/14 22:14		6.524
12/11/14 22:15	4.55	6.374
12/11/14 22:16		6.374
12/11/14 22:17		6.374
12/11/14 22:18		6.374
12/11/14 22:19		6.374
12/11/14 22:20	4.55	6.374
12/11/14 22:21		6.374

Date and Time	Level (inches)	Flow (cfs)
12/11/14 22:22		6.374
12/11/14 22:23		6.374
12/11/14 22:24		6.374
12/11/14 22:25	4.499	6.247
12/11/14 22:26		6.247
12/11/14 22:27		6.247
12/11/14 22:28		6.247
12/11/14 22:29		6.247
12/11/14 22:30	4.524	6.311
12/11/14 22:31		6.311
12/11/14 22:32		6.311
12/11/14 22:33		6.311
12/11/14 22:34		6.311
12/11/14 22:35	4.43	6.076
12/11/14 22:36		6.076
12/11/14 22:37		6.076
12/11/14 22:38		6.076
12/11/14 22:39		6.076
12/11/14 22:40	4.456	6.14
12/11/14 22:41		6.14
12/11/14 22:42		6.14
12/11/14 22:43		6.14
12/11/14 22:44		6.14
12/11/14 22:45	4.405	6.012
12/11/14 22:46		6.012
12/11/14 22:47		6.012
12/11/14 22:48		6.012
12/11/14 22:49		6.012
12/11/14 22:50	4.43	6.076
12/11/14 22:51		6.076
12/11/14 22:52		6.076
12/11/14 22:53		6.076
12/11/14 22:54		6.076
12/11/14 22:55	4.43	6.076
12/11/14 22:56		6.076
12/11/14 22:57		6.076
12/11/14 22:58		6.076
12/11/14 22:59		6.076
12/11/14 23:00	4.448	6.119
12/11/14 23:01		6.119
12/11/14 23:02		6.119
12/11/14 23:03		6.119
12/11/14 23:04		6.119
12/11/14 23:05	4.396	5.991
12/11/14 23:06		5.991

Date and Time	Level (inches)	Flow (cfs)
12/11/14 23:07		5.991
12/11/14 23:08		5.991
12/11/14 23:09		5.991
12/11/14 23:10	4.345	5.863
12/11/14 23:11		5.863
12/11/14 23:12		5.863
12/11/14 23:13		5.863
12/11/14 23:14		5.863
12/11/14 23:15	4.337	5.842
12/11/14 23:16		5.842
12/11/14 23:17		5.842
12/11/14 23:18		5.842
12/11/14 23:19		5.842
12/11/14 23:20	4.362	5.906
12/11/14 23:21		5.906
12/11/14 23:22		5.906
12/11/14 23:23		5.906
12/11/14 23:24		5.906
12/11/14 23:25	4.311	5.778
12/11/14 23:26		5.778
12/11/14 23:27		5.778
12/11/14 23:28		5.778
12/11/14 23:29		5.778
12/11/14 23:30	4.311	5.778
12/11/14 23:31		5.778
12/11/14 23:32		5.778
12/11/14 23:33		5.778
12/11/14 23:34		5.778
12/11/14 23:35	4.303	5.757
12/11/14 23:36		5.757
12/11/14 23:37		5.757
12/11/14 23:38		5.757
12/11/14 23:39		5.757
12/11/14 23:40	4.286	5.714
12/11/14 23:41		5.714
12/11/14 23:42		5.714
12/11/14 23:43		5.714
12/11/14 23:44		5.714
12/11/14 23:45	4.294	5.735
12/11/14 23:46		5.735
12/11/14 23:47		5.735
12/11/14 23:48		5.735
12/11/14 23:49		5.735
12/11/14 23:50	4.294	5.735
12/11/14 23:51		5.735

Date and Time	Level (inches)	Flow (cfs)
12/11/14 23:52		5.735
12/11/14 23:53		5.735
12/11/14 23:54		5.735
12/11/14 23:55	4.251	5.629
12/11/14 23:56		5.629
12/11/14 23:57		5.629
12/11/14 23:58		5.629
12/11/14 23:59		5.629
12/12/14 0:00	4.277	5.693
12/12/14 0:01		5.693
12/12/14 0:02		5.693
12/12/14 0:03		5.693
12/12/14 0:04		5.693
12/12/14 0:05	4.26	5.65
12/12/14 0:06		5.65
12/12/14 0:07		5.65
12/12/14 0:08		5.65
12/12/14 0:09		5.65
12/12/14 0:10	4.277	5.693
12/12/14 0:11		5.693
12/12/14 0:12		5.693
12/12/14 0:13		5.693
12/12/14 0:14		5.693
12/12/14 0:15	4.217	5.543
12/12/14 0:16		5.543
12/12/14 0:17		5.543
12/12/14 0:18		5.543
12/12/14 0:19		5.543
12/12/14 0:20	4.183	5.458
12/12/14 0:21		5.458
12/12/14 0:22		5.458
12/12/14 0:23		5.458
12/12/14 0:24		5.458
12/12/14 0:25	4.158	5.394
12/12/14 0:26		5.394
12/12/14 0:27		5.394
12/12/14 0:28		5.394
12/12/14 0:29		5.394
12/12/14 0:30	4.217	5.543
12/12/14 0:31		5.543
12/12/14 0:32		5.543
12/12/14 0:33		5.543
12/12/14 0:34		5.543
12/12/14 0:35	4.26	5.65
12/12/14 0:36		5.65

Date and Time	Level (inches)	Flow (cfs)
12/12/14 0:37		5.65
12/12/14 0:38		5.65
12/12/14 0:39		5.65
12/12/14 0:40	4.269	5.671
12/12/14 0:41		5.671
12/12/14 0:42		5.671
12/12/14 0:43		5.671
12/12/14 0:44		5.671
12/12/14 0:45	4.32	5.799
12/12/14 0:46		5.799
12/12/14 0:47		5.799
12/12/14 0:48		5.799
12/12/14 0:49		5.799
12/12/14 0:50	4.499	6.247
12/12/14 0:51		6.247
12/12/14 0:52		6.247
12/12/14 0:53		6.247
12/12/14 0:54		6.247
12/12/14 0:55	4.72	6.801
12/12/14 0:56		6.801
12/12/14 0:57		6.801
12/12/14 0:58		6.801
12/12/14 0:59		6.801
12/12/14 1:00	5.24	8.101
12/12/14 1:01		8.101
12/12/14 1:02		8.101
12/12/14 1:03		8.101
12/12/14 1:04		8.101
12/12/14 1:05	5.377	8.442
12/12/14 1:06		8.442
12/12/14 1:07		8.442
12/12/14 1:08		8.442
12/12/14 1:09		8.442
12/12/14 1:10	5.189	7.973
12/12/14 1:11		7.973
12/12/14 1:12		7.973
12/12/14 1:13		7.973
12/12/14 1:14		7.973
12/12/14 1:15	5.129	7.824
12/12/14 1:16		7.824
12/12/14 1:17		7.824
12/12/14 1:18		7.824
12/12/14 1:19		7.824
12/12/14 1:20	5.087	7.717
12/12/14 1:21		7.717

Date and Time	Level (inches)	Flow (cfs)
12/12/14 1:22		7.717
12/12/14 1:23		7.717
12/12/14 1:24		7.717
12/12/14 1:25	5.257	8.143
12/12/14 1:26		8.143
12/12/14 1:27		8.143
12/12/14 1:28		8.143
12/12/14 1:29		8.143
12/12/14 1:30	5.385	8.463
12/12/14 1:31		8.463
12/12/14 1:32		8.463
12/12/14 1:33		8.463
12/12/14 1:34		8.463
12/12/14 1:35	6.101	10.253
12/12/14 1:36		10.253
12/12/14 1:37		10.253
12/12/14 1:38		10.253
12/12/14 1:39		10.253
12/12/14 1:40	6.681	11.702
12/12/14 1:41		11.702
12/12/14 1:42		11.702
12/12/14 1:43		11.702
12/12/14 1:44		11.702
12/12/14 1:45	6.775	11.936
12/12/14 1:46		11.936
12/12/14 1:47		11.936
12/12/14 1:48		11.936
12/12/14 1:49		11.936
12/12/14 1:50	6.928	12.32
12/12/14 1:51		12.32
12/12/14 1:52		12.32
12/12/14 1:53		12.32
12/12/14 1:54		12.32
12/12/14 1:55	6.902	12.256
12/12/14 1:56		12.256
12/12/14 1:57		12.256
12/12/14 1:58		12.256
12/12/14 1:59		12.256
12/12/14 2:00	6.877	12.192
12/12/14 2:01		12.192
12/12/14 2:02		12.192
12/12/14 2:03		12.192
12/12/14 2:04		12.192
12/12/14 2:05	6.732	11.83
12/12/14 2:06		11.83

Date and Time	Level (inches)	Flow (cfs)
12/12/14 2:07		11.83
12/12/14 2:08		11.83
12/12/14 2:09		11.83
12/12/14 2:10	6.723	11.809
12/12/14 2:11		11.809
12/12/14 2:12		11.809
12/12/14 2:13		11.809
12/12/14 2:14		11.809
12/12/14 2:15	6.451	11.127
12/12/14 2:16		11.127
12/12/14 2:17		11.127
12/12/14 2:18		11.127
12/12/14 2:19		11.127
12/12/14 2:20	6.434	11.084
12/12/14 2:21		11.084
12/12/14 2:22		11.084
12/12/14 2:23		11.084
12/12/14 2:24		11.084
12/12/14 2:25	6.22	10.551
12/12/14 2:26		10.551
12/12/14 2:27		10.551
12/12/14 2:28		10.551
12/12/14 2:29		10.551
12/12/14 2:30	6.178	10.445
12/12/14 2:31		10.445
12/12/14 2:32		10.445
12/12/14 2:33		10.445
12/12/14 2:34		10.445
12/12/14 2:35	6.161	10.402
12/12/14 2:36		10.402
12/12/14 2:37		10.402
12/12/14 2:38		10.402
12/12/14 2:39		10.402
12/12/14 2:40	6.059	10.146
12/12/14 2:41		10.146
12/12/14 2:42		10.146
12/12/14 2:43		10.146
12/12/14 2:44		10.146
12/12/14 2:45	5.931	9.827
12/12/14 2:46		9.827
12/12/14 2:47		9.827
12/12/14 2:48		9.827
12/12/14 2:49		9.827
12/12/14 2:50	5.914	9.784
12/12/14 2:51		9.784

Date and Time	Level (inches)	Flow (cfs)
12/12/14 2:52		9.784
12/12/14 2:53		9.784
12/12/14 2:54		9.784
12/12/14 2:55	7.772	14.906
12/12/14 2:56		14.906
12/12/14 2:57		14.906
12/12/14 2:58		14.906
12/12/14 2:59		14.906
12/12/14 3:00	9.894	23.226
12/12/14 3:01		23.226
12/12/14 3:02		23.226
12/12/14 3:03		23.226
12/12/14 3:04		23.226
12/12/14 3:05	10.406	25.357
12/12/14 3:06		25.357
12/12/14 3:07		25.357
12/12/14 3:08		25.357
12/12/14 3:09		25.357
12/12/14 3:10	11.002	28.012
12/12/14 3:11		28.012
12/12/14 3:12		28.012
12/12/14 3:13		28.012
12/12/14 3:14		28.012
12/12/14 3:15	13.27	40.407
12/12/14 3:16		40.407
12/12/14 3:17		40.407
12/12/14 3:18		40.407
12/12/14 3:19		40.407
12/12/14 3:20	15.563	53.783
12/12/14 3:21		53.783
12/12/14 3:22		53.783
12/12/14 3:23		53.783
12/12/14 3:24		53.783
12/12/14 3:25	17.609	68.39
12/12/14 3:26		68.39
12/12/14 3:27		68.39
12/12/14 3:28		68.39
12/12/14 3:29		68.39
12/12/14 3:30	23.533	121.327
12/12/14 3:31		121.327
12/12/14 3:32		121.327
12/12/14 3:33		121.327
12/12/14 3:34		121.327
12/12/14 3:35	32.287	231.302
12/12/14 3:36		231.302

Date and Time	Level (inches)	Flow (cfs)
12/12/14 3:37		231.302
12/12/14 3:38		231.302
12/12/14 3:39		231.302
12/12/14 3:40	35.918	289.633
12/12/14 3:41		339.783
12/12/14 3:42		389.933
12/12/14 3:43		440.083
12/12/14 3:44		490.233
12/12/14 3:45	41.629	540.363
12/12/14 3:46		723.793
12/12/14 3:47		907.223
12/12/14 3:48		1090.653
12/12/14 3:49		1274.083
12/12/14 3:50	59.785	1457.528
12/12/14 3:51		1687.428
12/12/14 3:52		1917.328
12/12/14 3:53		2147.228
12/12/14 3:54		2377.128
12/12/14 3:55	72.06	2607.017
12/12/14 3:56		2872.017
12/12/14 3:57		3137.017
12/12/14 3:58		3402.017
12/12/14 3:59		3667.017
12/12/14 4:00	83.337	3933.968
12/12/14 4:01		4165.968
12/12/14 4:02		4397.968
12/12/14 4:03		4629.968
12/12/14 4:04		4861.968
12/12/14 4:05	90.676	5095.177
12/12/14 4:06		5307.177
12/12/14 4:07		5519.177
12/12/14 4:08		5731.177
12/12/14 4:09		5943.177
12/12/14 4:10	97.529	6155.636
12/12/14 4:11		6111.636
12/12/14 4:12		6067.636
12/12/14 4:13		6023.636
12/12/14 4:14		5979.636
12/12/14 4:15	95.85	5934.667
12/12/14 4:16		5879.667
12/12/14 4:17		5824.667
12/12/14 4:18		5769.667
12/12/14 4:19		5714.667
12/12/14 4:20	94.171	5662.212
12/12/14 4:21		5639.212

Date and Time	Level (inches)	Flow (cfs)
12/12/14 4:22		5616.212
12/12/14 4:23		5593.212
12/12/14 4:24		5570.212
12/12/14 4:25	93.472	5548.806
12/12/14 4:26		5458.806
12/12/14 4:27		5368.806
12/12/14 4:28		5278.806
12/12/14 4:29		5188.806
12/12/14 4:30	90.702	5099.326
12/12/14 4:31		4929.326
12/12/14 4:32		4759.326
12/12/14 4:33		4589.326
12/12/14 4:34		4419.326
12/12/14 4:35	85.459	4248.774
12/12/14 4:36		4211.774
12/12/14 4:37		4174.774
12/12/14 4:38		4137.774
12/12/14 4:39		4100.774
12/12/14 4:40	84.317	4063.448
12/12/14 4:41		3941.448
12/12/14 4:42		3819.448
12/12/14 4:43		3697.448
12/12/14 4:44		3575.448
12/12/14 4:45	79.262	3454.541
12/12/14 4:46		3372.541
12/12/14 4:47		3290.541
12/12/14 4:48		3208.541
12/12/14 4:49		3126.541
12/12/14 4:50	75.64	3028.271
12/12/14 4:51		2965.271
12/12/14 4:52		2902.271
12/12/14 4:53		2839.271
12/12/14 4:54		2776.271
12/12/14 4:55	72.98	2715.339
12/12/14 4:56		2660.339
12/12/14 4:57		2605.339
12/12/14 4:58		2550.339
12/12/14 4:59		2495.339
12/12/14 5:00	70.423	2441.251
12/12/14 5:01		2363.251
12/12/14 5:02		2285.251
12/12/14 5:03		2207.251
12/12/14 5:04		2129.251
12/12/14 5:05	66.57	2053.399
12/12/14 5:06		2049.899

Date and Time	Level (inches)	Flow (cfs)
12/12/14 5:07		2046.399
12/12/14 5:08		2042.899
12/12/14 5:09		2039.399
12/12/14 5:10	66.4	2036.238
12/12/14 5:11		2003.238
12/12/14 5:12		1970.238
12/12/14 5:13		1937.238
12/12/14 5:14		1904.238
12/12/14 5:15	64.559	1870.352
12/12/14 5:16		1800.352
12/12/14 5:17		1730.352
12/12/14 5:18		1660.352
12/12/14 5:19		1590.352
12/12/14 5:20	60.535	1519.654
12/12/14 5:21		1496.654
12/12/14 5:22		1473.654
12/12/14 5:23		1450.654
12/12/14 5:24		1427.654
12/12/14 5:25	59.052	1404.748
12/12/14 5:26		1373.748
12/12/14 5:27		1342.748
12/12/14 5:28		1311.748
12/12/14 5:29		1280.748
12/12/14 5:30	56.913	1250.703
12/12/14 5:31		1250.703
12/12/14 5:32		1250.703
12/12/14 5:33		1250.703
12/12/14 5:34		1250.703
12/12/14 5:35	56.955	1253.772
12/12/14 5:36		1253.772
12/12/14 5:37		1253.772
12/12/14 5:38		1253.772
12/12/14 5:39		1253.772
12/12/14 5:40	56.844	1245.793
12/12/14 5:41		1245.793
12/12/14 5:42		1245.793
12/12/14 5:43		1245.793
12/12/14 5:44		1245.793
12/12/14 5:45	56.537	1223.699
12/12/14 5:46		1223.699
12/12/14 5:47		1223.699
12/12/14 5:48		1223.699
12/12/14 5:49		1223.699
12/12/14 5:50	56.947	1253.158
12/12/14 5:51		1253.158

Date and Time	Level (inches)	Flow (cfs)
12/12/14 5:52		1253.158
12/12/14 5:53		1253.158
12/12/14 5:54		1253.158
12/12/14 5:55	56.64	1231.064
12/12/14 5:56		1231.064
12/12/14 5:57		1231.064
12/12/14 5:58		1231.064
12/12/14 5:59		1231.064
12/12/14 6:00	56.495	1220.63
12/12/14 6:01		1220.63
12/12/14 6:02		1220.63
12/12/14 6:03		1220.63
12/12/14 6:04		1220.63
12/12/14 6:05	54.688	1090.52
12/12/14 6:06		1090.52
12/12/14 6:07		1090.52
12/12/14 6:08		1090.52
12/12/14 6:09		1090.52
12/12/14 6:10	54.381	1068.426
12/12/14 6:11		1068.426
12/12/14 6:12		1068.426
12/12/14 6:13		1068.426
12/12/14 6:14		1068.426
12/12/14 6:15	54.031	1043.263
12/12/14 6:16		1043.263
12/12/14 6:17		1043.263
12/12/14 6:18		1043.263
12/12/14 6:19		1043.263
12/12/14 6:20	53.801	1030.302
12/12/14 6:21		1030.302
12/12/14 6:22		1030.302
12/12/14 6:23		1030.302
12/12/14 6:24		1030.302
12/12/14 6:25	53.52	1015.16
12/12/14 6:26		1015.16
12/12/14 6:27		1015.16
12/12/14 6:28		1015.16
12/12/14 6:29		1015.16
12/12/14 6:30	51.96	931.186
12/12/14 6:31		931.186
12/12/14 6:32		931.186
12/12/14 6:33		931.186
12/12/14 6:34		931.186
12/12/14 6:35	52.233	945.87
12/12/14 6:36		945.87

Date and Time	Level (inches)	Flow (cfs)
12/12/14 6:37		945.87
12/12/14 6:38		945.87
12/12/14 6:39		945.87
12/12/14 6:40	51.551	909.16
12/12/14 6:41		909.16
12/12/14 6:42		909.16
12/12/14 6:43		909.16
12/12/14 6:44		909.16
12/12/14 6:45	51.363	899.065
12/12/14 6:46		899.065
12/12/14 6:47		899.065
12/12/14 6:48		899.065
12/12/14 6:49		899.065
12/12/14 6:50	51.483	905.489
12/12/14 6:51		905.489
12/12/14 6:52		905.489
12/12/14 6:53		905.489
12/12/14 6:54		905.489
12/12/14 6:55	50.298	841.706
12/12/14 6:56		841.706
12/12/14 6:57		841.706
12/12/14 6:58		841.706
12/12/14 6:59		841.706
12/12/14 7:00	51.15	887.593
12/12/14 7:01		887.593
12/12/14 7:02		887.593
12/12/14 7:03		887.593
12/12/14 7:04		887.593
12/12/14 7:05	52.276	948.164
12/12/14 7:06		948.164
12/12/14 7:07		948.164
12/12/14 7:08		948.164
12/12/14 7:09		948.164
12/12/14 7:10	52.258	947.246
12/12/14 7:11		947.246
12/12/14 7:12		947.246
12/12/14 7:13		947.246
12/12/14 7:14		947.246
12/12/14 7:15	51.525	907.784
12/12/14 7:16		907.784
12/12/14 7:17		907.784
12/12/14 7:18		907.784
12/12/14 7:19		907.784
12/12/14 7:20	51.832	924.303
12/12/14 7:21		924.303

Date and Time	Level (inches)	Flow (cfs)
12/12/14 7:22		924.303
12/12/14 7:23		924.303
12/12/14 7:24		924.303
12/12/14 7:25	52.011	933.939
12/12/14 7:26		933.939
12/12/14 7:27		933.939
12/12/14 7:28		933.939
12/12/14 7:29		933.939
12/12/14 7:30	52.463	958.259
12/12/14 7:31		958.259
12/12/14 7:32		958.259
12/12/14 7:33		958.259
12/12/14 7:34		958.259
12/12/14 7:35	52.915	982.58
12/12/14 7:36		982.58
12/12/14 7:37		982.58
12/12/14 7:38		982.58
12/12/14 7:39		982.58
12/12/14 7:40	53.247	1000.476
12/12/14 7:41		1000.476
12/12/14 7:42		1000.476
12/12/14 7:43		1000.476
12/12/14 7:44		1000.476
12/12/14 7:45	53.776	1028.926
12/12/14 7:46		1028.926
12/12/14 7:47		1028.926
12/12/14 7:48		1028.926
12/12/14 7:49		1028.926
12/12/14 7:50	53.614	1020.208
12/12/14 7:51		1020.208
12/12/14 7:52		1020.208
12/12/14 7:53		1020.208
12/12/14 7:54		1020.208
12/12/14 7:55	53.375	1007.359
12/12/14 7:56		1007.359
12/12/14 7:57		1007.359
12/12/14 7:58		1007.359
12/12/14 7:59		1007.359
12/12/14 8:00	52.795	976.156
12/12/14 8:01		976.156
12/12/14 8:02		976.156
12/12/14 8:03		976.156
12/12/14 8:04		976.156
12/12/14 8:05	50.775	867.403
12/12/14 8:06		867.403

Date and Time	Level (inches)	Flow (cfs)
12/12/14 8:07		867.403
12/12/14 8:08		867.403
12/12/14 8:09		867.403
12/12/14 8:10	50.562	855.931
12/12/14 8:11		855.931
12/12/14 8:12		855.931
12/12/14 8:13		855.931
12/12/14 8:14		855.931
12/12/14 8:15	49.684	808.667
12/12/14 8:16		808.667
12/12/14 8:17		808.667
12/12/14 8:18		808.667
12/12/14 8:19		808.667
12/12/14 8:20	50.929	875.662
12/12/14 8:21		875.662
12/12/14 8:22		875.662
12/12/14 8:23		875.662
12/12/14 8:24		875.662
12/12/14 8:25	49.863	818.303
12/12/14 8:26		818.303
12/12/14 8:27		818.303
12/12/14 8:28		818.303
12/12/14 8:29		818.303
12/12/14 8:30	49.488	798.113
12/12/14 8:31		798.113
12/12/14 8:32		798.113
12/12/14 8:33		798.113
12/12/14 8:34		798.113
12/12/14 8:35	47.656	704.794
12/12/14 8:36		704.794
12/12/14 8:37		704.794
12/12/14 8:38		704.794
12/12/14 8:39		704.794
12/12/14 8:40	46.931	677.021
12/12/14 8:41		677.021
12/12/14 8:42		677.021
12/12/14 8:43		677.021
12/12/14 8:44		677.021
12/12/14 8:45	46.692	667.871
12/12/14 8:46		667.871
12/12/14 8:47		667.871
12/12/14 8:48		667.871
12/12/14 8:49		667.871
12/12/14 8:50	44.911	607.047
12/12/14 8:51		607.047

Date and Time	Level (inches)	Flow (cfs)
12/12/14 8:52		607.047
12/12/14 8:53		607.047
12/12/14 8:54		607.047
12/12/14 8:55	45.422	621.111
12/12/14 8:56		621.111
12/12/14 8:57		621.111
12/12/14 8:58		621.111
12/12/14 8:59		621.111
12/12/14 9:00	44.485	595.326
12/12/14 9:01		595.326
12/12/14 9:02		595.326
12/12/14 9:03		595.326
12/12/14 9:04		595.326
12/12/14 9:05	43.675	573.057
12/12/14 9:06		573.057
12/12/14 9:07		573.057
12/12/14 9:08		573.057
12/12/14 9:09		573.057
12/12/14 9:10	44.007	582.199
12/12/14 9:11		582.199
12/12/14 9:12		582.199
12/12/14 9:13		582.199
12/12/14 9:14		582.199
12/12/14 9:15	43.496	568.135
12/12/14 9:16		568.135
12/12/14 9:17		568.135
12/12/14 9:18		568.135
12/12/14 9:19		568.135
12/12/14 9:20	42.967	557.092
12/12/14 9:21		557.092
12/12/14 9:22		557.092
12/12/14 9:23		557.092
12/12/14 9:24		557.092
12/12/14 9:25	43.274	562.04
12/12/14 9:26		562.04
12/12/14 9:27		562.04
12/12/14 9:28		562.04
12/12/14 9:29		562.04
12/12/14 9:30	42.771	554.641
12/12/14 9:31		554.641
12/12/14 9:32		554.641
12/12/14 9:33		554.641
12/12/14 9:34		554.641
12/12/14 9:35	43.538	569.307
12/12/14 9:36		569.307

Date and Time	Level (inches)	Flow (cfs)
12/12/14 9:37		569.307
12/12/14 9:38		569.307
12/12/14 9:39		569.307
12/12/14 9:40	43.794	576.339
12/12/14 9:41		576.339
12/12/14 9:42		576.339
12/12/14 9:43		576.339
12/12/14 9:44		576.339
12/12/14 9:45	42.635	552.936
12/12/14 9:46		552.936
12/12/14 9:47		552.936
12/12/14 9:48		552.936
12/12/14 9:49		552.936
12/12/14 9:50	44.11	585.012
12/12/14 9:51		585.012
12/12/14 9:52		585.012
12/12/14 9:53		585.012
12/12/14 9:54		585.012
12/12/14 9:55	43.624	571.651
12/12/14 9:56		571.651
12/12/14 9:57		571.651
12/12/14 9:58		571.651
12/12/14 9:59		571.651
12/12/14 10:00	44.808	604.234
12/12/14 10:01		604.234
12/12/14 10:02		604.234
12/12/14 10:03		604.234
12/12/14 10:04		604.234
12/12/14 10:05	47.332	692.378
12/12/14 10:06		692.378
12/12/14 10:07		692.378
12/12/14 10:08		692.378
12/12/14 10:09		692.378
12/12/14 10:10	46.803	672.119
12/12/14 10:11		672.119
12/12/14 10:12		672.119
12/12/14 10:13		672.119
12/12/14 10:14		672.119
12/12/14 10:15	48.431	741.212
12/12/14 10:16		741.212
12/12/14 10:17		741.212
12/12/14 10:18		741.212
12/12/14 10:19		741.212
12/12/14 10:20	49.181	781.593
12/12/14 10:21		781.593

Date and Time	Level (inches)	Flow (cfs)
12/12/14 10:22		781.593
12/12/14 10:23		781.593
12/12/14 10:24		781.593
12/12/14 10:25	49.556	801.784
12/12/14 10:26		801.784
12/12/14 10:27		801.784
12/12/14 10:28		801.784
12/12/14 10:29		801.784
12/12/14 10:30	47.8	710.349
12/12/14 10:31		710.349
12/12/14 10:32		710.349
12/12/14 10:33		710.349
12/12/14 10:34		710.349
12/12/14 10:35	48.082	722.398
12/12/14 10:36		722.398
12/12/14 10:37		722.398
12/12/14 10:38		722.398
12/12/14 10:39		722.398
12/12/14 10:40	46.803	672.119
12/12/14 10:41		672.119
12/12/14 10:42		672.119
12/12/14 10:43		672.119
12/12/14 10:44		672.119
12/12/14 10:45	46.147	646.959
12/12/14 10:46		646.959
12/12/14 10:47		646.959
12/12/14 10:48		646.959
12/12/14 10:49		646.959
12/12/14 10:50	45.039	610.563
12/12/14 10:51		610.563
12/12/14 10:52		610.563
12/12/14 10:53		610.563
12/12/14 10:54		610.563
12/12/14 10:55	44.485	595.326
12/12/14 10:56		595.326
12/12/14 10:57		595.326
12/12/14 10:58		595.326
12/12/14 10:59		595.326
12/12/14 11:00	41.961	544.519
12/12/14 11:01		544.519
12/12/14 11:02		544.519
12/12/14 11:03		544.519
12/12/14 11:04		544.519
12/12/14 11:05	42.175	547.182
12/12/14 11:06		547.182

Date and Time	Level (inches)	Flow (cfs)
12/12/14 11:07		547.182
12/12/14 11:08		547.182
12/12/14 11:09		547.182
12/12/14 11:10	41.331	536.634
12/12/14 11:11		536.634
12/12/14 11:12		536.634
12/12/14 11:13		536.634
12/12/14 11:14		536.634
12/12/14 11:15	40.095	493.268
12/12/14 11:16		493.268
12/12/14 11:17		493.268
12/12/14 11:18		493.268
12/12/14 11:19		493.268
12/12/14 11:20	37.742	373.751
12/12/14 11:21		373.751
12/12/14 11:22		373.751
12/12/14 11:23		373.751
12/12/14 11:24		373.751
12/12/14 11:25	37.538	364.034
12/12/14 11:26		364.034
12/12/14 11:27		364.034
12/12/14 11:28		364.034
12/12/14 11:29		364.034
12/12/14 11:30	36.796	328.809
12/12/14 11:31		328.809
12/12/14 11:32		328.809
12/12/14 11:33		328.809
12/12/14 11:34		328.809
12/12/14 11:35	36.907	334.072
12/12/14 11:36		334.072
12/12/14 11:37		334.072
12/12/14 11:38		334.072
12/12/14 11:39		334.072
12/12/14 11:40	36.506	315.043
12/12/14 11:41		315.043
12/12/14 11:42		315.043
12/12/14 11:43		315.043
12/12/14 11:44		315.043
12/12/14 11:45	36.088	295.203
12/12/14 11:46		295.203
12/12/14 11:47		295.203
12/12/14 11:48		295.203
12/12/14 11:49		295.203
12/12/14 11:50	34.298	262.641
12/12/14 11:51		262.641

Date and Time	Level (inches)	Flow (cfs)
12/12/14 11:52		262.641
12/12/14 11:53		262.641
12/12/14 11:54		262.641
12/12/14 11:55	34.06	258.663
12/12/14 11:56		258.663
12/12/14 11:57		258.663
12/12/14 11:58		258.663
12/12/14 11:59		258.663
12/12/14 12:00	33.463	248.946
12/12/14 12:01		248.946
12/12/14 12:02		248.946
12/12/14 12:03		248.946
12/12/14 12:04		248.946
12/12/14 12:05	34.162	260.368
12/12/14 12:06		260.368
12/12/14 12:07		260.368
12/12/14 12:08		260.368
12/12/14 12:09		260.368
12/12/14 12:10	33.361	247.412
12/12/14 12:11		247.412
12/12/14 12:12		247.412
12/12/14 12:13		247.412
12/12/14 12:14		247.412
12/12/14 12:15	32.577	235.649
12/12/14 12:16		235.649
12/12/14 12:17		235.649
12/12/14 12:18		235.649
12/12/14 12:19		235.649
12/12/14 12:20	31.102	213.693
12/12/14 12:21		213.693
12/12/14 12:22		213.693
12/12/14 12:23		213.693
12/12/14 12:24		213.693
12/12/14 12:25	29.653	194.372
12/12/14 12:26		194.372
12/12/14 12:27		194.372
12/12/14 12:28		194.372
12/12/14 12:29		194.372
12/12/14 12:30	27.121	162.016
12/12/14 12:31		162.016
12/12/14 12:32		162.016
12/12/14 12:33		162.016
12/12/14 12:34		162.016
12/12/14 12:35	26.005	148.552
12/12/14 12:36		148.552

Date and Time	Level (inches)	Flow (cfs)
12/12/14 12:37		148.552
12/12/14 12:38		148.552
12/12/14 12:39		148.552
12/12/14 12:40	25.894	147.305
12/12/14 12:41		147.305
12/12/14 12:42		147.305
12/12/14 12:43		147.305
12/12/14 12:44		147.305
12/12/14 12:45	24.786	134.839
12/12/14 12:46		134.839
12/12/14 12:47		134.839
12/12/14 12:48		134.839
12/12/14 12:49		134.839
12/12/14 12:50	24.453	131.099
12/12/14 12:51		131.099
12/12/14 12:52		131.099
12/12/14 12:53		131.099
12/12/14 12:54		131.099
12/12/14 12:55	23.669	122.691
12/12/14 12:56		122.691
12/12/14 12:57		122.691
12/12/14 12:58		122.691
12/12/14 12:59		122.691
12/12/14 13:00	23.192	117.917
12/12/14 13:01		117.917
12/12/14 13:02		117.917
12/12/14 13:03		117.917
12/12/14 13:04		117.917
12/12/14 13:05	22.348	109.478
12/12/14 13:06		109.478
12/12/14 13:07		109.478
12/12/14 13:08		109.478
12/12/14 13:09		109.478
12/12/14 13:10	21.683	102.83
12/12/14 13:11		102.83
12/12/14 13:12		102.83
12/12/14 13:13		102.83
12/12/14 13:14		102.83
12/12/14 13:15	21.223	98.698
12/12/14 13:16		98.698
12/12/14 13:17		98.698
12/12/14 13:18		98.698
12/12/14 13:19		98.698
12/12/14 13:20	20.549	92.806
12/12/14 13:21		92.806

Date and Time	Level (inches)	Flow (cfs)
12/12/14 13:22		92.806
12/12/14 13:23		92.806
12/12/14 13:24		92.806
12/12/14 13:25	20.106	88.928
12/12/14 13:26		88.928
12/12/14 13:27		88.928
12/12/14 13:28		88.928
12/12/14 13:29		88.928
12/12/14 13:30	19.893	87.063
12/12/14 13:31		87.063
12/12/14 13:32		87.063
12/12/14 13:33		87.063
12/12/14 13:34		87.063
12/12/14 13:35	19.409	82.831
12/12/14 13:36		82.831
12/12/14 13:37		82.831
12/12/14 13:38		82.831
12/12/14 13:39		82.831
12/12/14 13:40	18.896	78.464
12/12/14 13:41		78.464
12/12/14 13:42		78.464
12/12/14 13:43		78.464
12/12/14 13:44		78.464
12/12/14 13:45	18.359	73.989
12/12/14 13:46		73.989
12/12/14 13:47		73.989
12/12/14 13:48		73.989
12/12/14 13:49		73.989
12/12/14 13:50	17.915	70.436
12/12/14 13:51		70.436
12/12/14 13:52		70.436
12/12/14 13:53		70.436
12/12/14 13:54		70.436
12/12/14 13:55	17.805	69.697
12/12/14 13:56		69.697
12/12/14 13:57		69.697
12/12/14 13:58		69.697
12/12/14 13:59		69.697
12/12/14 14:00	17.268	66.117
12/12/14 14:01		66.117
12/12/14 14:02		66.117
12/12/14 14:03		66.117
12/12/14 14:04		66.117
12/12/14 14:05	17.208	65.719
12/12/14 14:06		65.719

Date and Time	Level (inches)	Flow (cfs)
12/12/14 14:07		65.719
12/12/14 14:08		65.719
12/12/14 14:09		65.719
12/12/14 14:10	17.003	64.355
12/12/14 14:11		64.355
12/12/14 14:12		64.355
12/12/14 14:13		64.355
12/12/14 14:14		64.355
12/12/14 14:15	16.517	60.881
12/12/14 14:16		60.881
12/12/14 14:17		60.881
12/12/14 14:18		60.881
12/12/14 14:19		60.881
12/12/14 14:20	16.049	57.365
12/12/14 14:21		57.365
12/12/14 14:22		57.365
12/12/14 14:23		57.365
12/12/14 14:24		57.365
12/12/14 14:25	16.202	58.515
12/12/14 14:26		58.515
12/12/14 14:27		58.515
12/12/14 14:28		58.515
12/12/14 14:29		58.515
12/12/14 14:30	15.708	54.808
12/12/14 14:31		54.808
12/12/14 14:32		54.808
12/12/14 14:33		54.808
12/12/14 14:34		54.808
12/12/14 14:35	15.801	55.511
12/12/14 14:36		55.511
12/12/14 14:37		55.511
12/12/14 14:38		55.511
12/12/14 14:39		55.511
12/12/14 14:40	15.767	55.255
12/12/14 14:41		55.255
12/12/14 14:42		55.255
12/12/14 14:43		55.255
12/12/14 14:44		55.255
12/12/14 14:45	15.384	52.739
12/12/14 14:46		52.739
12/12/14 14:47		52.739
12/12/14 14:48		52.739
12/12/14 14:49		52.739
12/12/14 14:50	15.137	51.297
12/12/14 14:51		51.297

Date and Time	Level (inches)	Flow (cfs)
12/12/14 14:52		51.297
12/12/14 14:53		51.297
12/12/14 14:54		51.297
12/12/14 14:55	15	50.501
12/12/14 14:56		50.501
12/12/14 14:57		50.501
12/12/14 14:58		50.501
12/12/14 14:59		50.501
12/12/14 15:00	14.685	48.661
12/12/14 15:01		48.661
12/12/14 15:02		48.661
12/12/14 15:03		48.661
12/12/14 15:04		48.661
12/12/14 15:05	14.429	47.17
12/12/14 15:06		47.17
12/12/14 15:07		47.17
12/12/14 15:08		47.17
12/12/14 15:09		47.17
12/12/14 15:10	14.404	47.02
12/12/14 15:11		47.02
12/12/14 15:12		47.02
12/12/14 15:13		47.02
12/12/14 15:14		47.02
12/12/14 15:15	13.96	44.435
12/12/14 15:16		44.435
12/12/14 15:17		44.435
12/12/14 15:18		44.435
12/12/14 15:19		44.435
12/12/14 15:20	14.08	45.131
12/12/14 15:21		45.131
12/12/14 15:22		45.131
12/12/14 15:23		45.131
12/12/14 15:24		45.131
12/12/14 15:25	13.866	43.888
12/12/14 15:26		43.888
12/12/14 15:27		43.888
12/12/14 15:28		43.888
12/12/14 15:29		43.888
12/12/14 15:30	13.585	42.247
12/12/14 15:31		42.247
12/12/14 15:32		42.247
12/12/14 15:33		42.247
12/12/14 15:34		42.247
12/12/14 15:35	13.713	42.993
12/12/14 15:36		42.993

Date and Time	Level (inches)	Flow (cfs)
12/12/14 15:37		42.993
12/12/14 15:38		42.993
12/12/14 15:39		42.993
12/12/14 15:40	13.483	41.65
12/12/14 15:41		41.65
12/12/14 15:42		41.65
12/12/14 15:43		41.65
12/12/14 15:44		41.65
12/12/14 15:45	13.21	40.059
12/12/14 15:46		40.059
12/12/14 15:47		40.059
12/12/14 15:48		40.059
12/12/14 15:49		40.059
12/12/14 15:50	12.997	38.816
12/12/14 15:51		38.816
12/12/14 15:52		38.816
12/12/14 15:53		38.816
12/12/14 15:54		38.816
12/12/14 15:55	12.81	37.722
12/12/14 15:56		37.722
12/12/14 15:57		37.722
12/12/14 15:58		37.722
12/12/14 15:59		37.722
12/12/14 16:00	12.648	36.777
12/12/14 16:01		36.777
12/12/14 16:02		36.777
12/12/14 16:03		36.777
12/12/14 16:04		36.777
12/12/14 16:05	12.409	35.385
12/12/14 16:06		35.385
12/12/14 16:07		35.385
12/12/14 16:08		35.385
12/12/14 16:09		35.385
12/12/14 16:10	12.111	33.645
12/12/14 16:11		33.645
12/12/14 16:12		33.645
12/12/14 16:13		33.645
12/12/14 16:14		33.645
12/12/14 16:15	12.196	34.142
12/12/14 16:16		34.142
12/12/14 16:17		34.142
12/12/14 16:18		34.142
12/12/14 16:19		34.142
12/12/14 16:20	11.846	32.232
12/12/14 16:21		32.232

Date and Time	Level (inches)	Flow (cfs)
12/12/14 16:22		32.232
12/12/14 16:23		32.232
12/12/14 16:24		32.232
12/12/14 16:25	11.693	31.464
12/12/14 16:26		31.464
12/12/14 16:27		31.464
12/12/14 16:28		31.464
12/12/14 16:29		31.464
12/12/14 16:30	11.71	31.55
12/12/14 16:31		31.55
12/12/14 16:32		31.55
12/12/14 16:33		31.55
12/12/14 16:34		31.55
12/12/14 16:35	11.642	31.209
12/12/14 16:36		31.209
12/12/14 16:37		31.209
12/12/14 16:38		31.209
12/12/14 16:39		31.209
12/12/14 16:40	11.488	30.442
12/12/14 16:41		30.442
12/12/14 16:42		30.442
12/12/14 16:43		30.442
12/12/14 16:44		30.442
12/12/14 16:45	11.65	31.251
12/12/14 16:46		31.251
12/12/14 16:47		31.251
12/12/14 16:48		31.251
12/12/14 16:49		31.251
12/12/14 16:50	11.181	28.907
12/12/14 16:51		28.907
12/12/14 16:52		28.907
12/12/14 16:53		28.907
12/12/14 16:54		28.907
12/12/14 16:55	11.105	28.524
12/12/14 16:56		28.524
12/12/14 16:57		28.524
12/12/14 16:58		28.524
12/12/14 16:59		28.524
12/12/14 17:00	10.926	27.629
12/12/14 17:01		27.629
12/12/14 17:02		27.629
12/12/14 17:03		27.629
12/12/14 17:04		27.629
12/12/14 17:05	10.926	27.629
12/12/14 17:06		27.629

Date and Time	Level (inches)	Flow (cfs)
12/12/14 17:07		27.629
12/12/14 17:08		27.629
12/12/14 17:09		27.629
12/12/14 17:10	11.019	28.097
12/12/14 17:11		28.097
12/12/14 17:12		28.097
12/12/14 17:13		28.097
12/12/14 17:14		28.097
12/12/14 17:15	11.088	28.438
12/12/14 17:16		28.438
12/12/14 17:17		28.438
12/12/14 17:18		28.438
12/12/14 17:19		28.438
12/12/14 17:20	10.892	27.458
12/12/14 17:21		27.458
12/12/14 17:22		27.458
12/12/14 17:23		27.458
12/12/14 17:24		27.458
12/12/14 17:25	10.661	26.423
12/12/14 17:26		26.423
12/12/14 17:27		26.423
12/12/14 17:28		26.423
12/12/14 17:29		26.423
12/12/14 17:30	10.491	25.713
12/12/14 17:31		25.713
12/12/14 17:32		25.713
12/12/14 17:33		25.713
12/12/14 17:34		25.713
12/12/14 17:35	10.525	25.855
12/12/14 17:36		25.855
12/12/14 17:37		25.855
12/12/14 17:38		25.855
12/12/14 17:39		25.855
12/12/14 17:40	10.576	26.068
12/12/14 17:41		26.068
12/12/14 17:42		26.068
12/12/14 17:43		26.068
12/12/14 17:44		26.068
12/12/14 17:45	10.517	25.819
12/12/14 17:46		25.819
12/12/14 17:47		25.819
12/12/14 17:48		25.819
12/12/14 17:49		25.819
12/12/14 17:50	10.21	24.54
12/12/14 17:51		24.54

Date and Time	Level (inches)	Flow (cfs)
12/12/14 17:52		24.54
12/12/14 17:53		24.54
12/12/14 17:54		24.54
12/12/14 17:55	10.363	25.18
12/12/14 17:56		25.18
12/12/14 17:57		25.18
12/12/14 17:58		25.18
12/12/14 17:59		25.18
12/12/14 18:00	10.201	24.505
12/12/14 18:01		24.505
12/12/14 18:02		24.505
12/12/14 18:03		24.505
12/12/14 18:04		24.505
12/12/14 18:05	9.945	23.439
12/12/14 18:06		23.439
12/12/14 18:07		23.439
12/12/14 18:08		23.439
12/12/14 18:09		23.439
12/12/14 18:10	9.681	22.338
12/12/14 18:11		22.338
12/12/14 18:12		22.338
12/12/14 18:13		22.338
12/12/14 18:14		22.338
12/12/14 18:15	9.749	22.623
12/12/14 18:16		22.623
12/12/14 18:17		22.623
12/12/14 18:18		22.623
12/12/14 18:19		22.623
12/12/14 18:20	9.639	22.161
12/12/14 18:21		22.161
12/12/14 18:22		22.161
12/12/14 18:23		22.161
12/12/14 18:24		22.161
12/12/14 18:25	9.613	22.054
12/12/14 18:26		22.054
12/12/14 18:27		22.054
12/12/14 18:28		22.054
12/12/14 18:29		22.054
12/12/14 18:30	9.502	21.593
12/12/14 18:31		21.593
12/12/14 18:32		21.593
12/12/14 18:33		21.593
12/12/14 18:34		21.593
12/12/14 18:35	9.255	20.563
12/12/14 18:36		20.563

Date and Time	Level (inches)	Flow (cfs)
12/12/14 18:37		20.563
12/12/14 18:38		20.563
12/12/14 18:39		20.563
12/12/14 18:40	9.076	19.817
12/12/14 18:41		19.817
12/12/14 18:42		19.817
12/12/14 18:43		19.817
12/12/14 18:44		19.817
12/12/14 18:45	9.042	19.675
12/12/14 18:46		19.675
12/12/14 18:47		19.675
12/12/14 18:48		19.675
12/12/14 18:49		19.675
12/12/14 18:50	8.999	19.497
12/12/14 18:51		19.497
12/12/14 18:52		19.497
12/12/14 18:53		19.497
12/12/14 18:54		19.497
12/12/14 18:55	8.923	19.177
12/12/14 18:56		19.177
12/12/14 18:57		19.177
12/12/14 18:58		19.177
12/12/14 18:59		19.177
12/12/14 19:00	8.82	18.751
12/12/14 19:01		18.751
12/12/14 19:02		18.751
12/12/14 19:03		18.751
12/12/14 19:04		18.751
12/12/14 19:05	8.812	18.716
12/12/14 19:06		18.716
12/12/14 19:07		18.716
12/12/14 19:08		18.716
12/12/14 19:09		18.716
12/12/14 19:10	8.812	18.716
12/12/14 19:11		18.716
12/12/14 19:12		18.716
12/12/14 19:13		18.716
12/12/14 19:14		18.716
12/12/14 19:15	8.684	18.183
12/12/14 19:16		18.183
12/12/14 19:17		18.183
12/12/14 19:18		18.183
12/12/14 19:19		18.183
12/12/14 19:20	8.863	18.929
12/12/14 19:21		18.929

Date and Time	Level (inches)	Flow (cfs)
12/12/14 19:22		18.929
12/12/14 19:23		18.929
12/12/14 19:24		18.929
12/12/14 19:25	8.692	18.219
12/12/14 19:26		18.219
12/12/14 19:27		18.219
12/12/14 19:28		18.219
12/12/14 19:29		18.219
12/12/14 19:30	8.709	18.29
12/12/14 19:31		18.29
12/12/14 19:32		18.29
12/12/14 19:33		18.29
12/12/14 19:34		18.29
12/12/14 19:35	8.488	17.366
12/12/14 19:36		17.366
12/12/14 19:37		17.366
12/12/14 19:38		17.366
12/12/14 19:39		17.366
12/12/14 19:40	8.778	18.574
12/12/14 19:41		18.574
12/12/14 19:42		18.574
12/12/14 19:43		18.574
12/12/14 19:44		18.574
12/12/14 19:45	8.684	18.183
12/12/14 19:46		18.183
12/12/14 19:47		18.183
12/12/14 19:48		18.183
12/12/14 19:49		18.183
12/12/14 19:50	8.633	17.97
12/12/14 19:51		17.97
12/12/14 19:52		17.97
12/12/14 19:53		17.97
12/12/14 19:54		17.97
12/12/14 19:55	8.675	18.147
12/12/14 19:56		18.147
12/12/14 19:57		18.147
12/12/14 19:58		18.147
12/12/14 19:59		18.147
12/12/14 20:00	8.658	18.076
12/12/14 20:01		18.076
12/12/14 20:02		18.076
12/12/14 20:03		18.076
12/12/14 20:04		18.076
12/12/14 20:05	8.548	17.615
12/12/14 20:06		17.615

Date and Time	Level (inches)	Flow (cfs)
12/12/14 20:07		17.615
12/12/14 20:08		17.615
12/12/14 20:09		17.615
12/12/14 20:10	8.428	17.118
12/12/14 20:11		17.118
12/12/14 20:12		17.118
12/12/14 20:13		17.118
12/12/14 20:14		17.118
12/12/14 20:15	8.411	17.046
12/12/14 20:16		17.046
12/12/14 20:17		17.046
12/12/14 20:18		17.046
12/12/14 20:19		17.046
12/12/14 20:20	8.403	17.011
12/12/14 20:21		17.011
12/12/14 20:22		17.011
12/12/14 20:23		17.011
12/12/14 20:24		17.011
12/12/14 20:25	8.249	16.497
12/12/14 20:26		16.497
12/12/14 20:27		16.497
12/12/14 20:28		16.497
12/12/14 20:29		16.497
12/12/14 20:30	8.582	17.757
12/12/14 20:31		17.757
12/12/14 20:32		17.757
12/12/14 20:33		17.757
12/12/14 20:34		17.757
12/12/14 20:35	8.266	16.554
12/12/14 20:36		16.554
12/12/14 20:37		16.554
12/12/14 20:38		16.554
12/12/14 20:39		16.554
12/12/14 20:40	8.266	16.554
12/12/14 20:41		16.554
12/12/14 20:42		16.554
12/12/14 20:43		16.554
12/12/14 20:44		16.554
12/12/14 20:45	8.155	16.185
12/12/14 20:46		16.185
12/12/14 20:47		16.185
12/12/14 20:48		16.185
12/12/14 20:49		16.185
12/12/14 20:50	8.258	16.526
12/12/14 20:51		16.526

Date and Time	Level (inches)	Flow (cfs)
12/12/14 20:52		16.526
12/12/14 20:53		16.526
12/12/14 20:54		16.526
12/12/14 20:55	8.164	16.213
12/12/14 20:56		16.213
12/12/14 20:57		16.213
12/12/14 20:58		16.213
12/12/14 20:59		16.213
12/12/14 21:00	7.917	15.389
12/12/14 21:01		15.389
12/12/14 21:02		15.389
12/12/14 21:03		15.389
12/12/14 21:04		15.389
12/12/14 21:05	7.917	15.389
12/12/14 21:06		15.389
12/12/14 21:07		15.389
12/12/14 21:08		15.389
12/12/14 21:09		15.389
12/12/14 21:10	7.866	15.219
12/12/14 21:11		15.219
12/12/14 21:12		15.219
12/12/14 21:13		15.219
12/12/14 21:14		15.219
12/12/14 21:15	7.84	15.133
12/12/14 21:16		15.133
12/12/14 21:17		15.133
12/12/14 21:18		15.133
12/12/14 21:19		15.133
12/12/14 21:20	8.096	15.986
12/12/14 21:21		15.986
12/12/14 21:22		15.986
12/12/14 21:23		15.986
12/12/14 21:24		15.986
12/12/14 21:25	8.07	15.901
12/12/14 21:26		15.901
12/12/14 21:27		15.901
12/12/14 21:28		15.901
12/12/14 21:29		15.901
12/12/14 21:30	7.917	15.389
12/12/14 21:31		15.389
12/12/14 21:32		15.389
12/12/14 21:33		15.389
12/12/14 21:34		15.389
12/12/14 21:35	7.789	14.963
12/12/14 21:36		14.963

Date and Time	Level (inches)	Flow (cfs)
12/12/14 21:37		14.963
12/12/14 21:38		14.963
12/12/14 21:39		14.963
12/12/14 21:40	7.806	15.02
12/12/14 21:41		15.02
12/12/14 21:42		15.02
12/12/14 21:43		15.02
12/12/14 21:44		15.02
12/12/14 21:45	7.542	14.139
12/12/14 21:46		14.139
12/12/14 21:47		14.139
12/12/14 21:48		14.139
12/12/14 21:49		14.139
12/12/14 21:50	7.78	14.935
12/12/14 21:51		14.935
12/12/14 21:52		14.935
12/12/14 21:53		14.935
12/12/14 21:54		14.935
12/12/14 21:55	7.849	15.162
12/12/14 21:56		15.162
12/12/14 21:57		15.162
12/12/14 21:58		15.162
12/12/14 21:59		15.162
12/12/14 22:00	7.687	14.622
12/12/14 22:01		14.622
12/12/14 22:02		14.622
12/12/14 22:03		14.622
12/12/14 22:04		14.622
12/12/14 22:05	7.635	14.452
12/12/14 22:06		14.452
12/12/14 22:07		14.452
12/12/14 22:08		14.452
12/12/14 22:09		14.452
12/12/14 22:10	7.67	14.565
12/12/14 22:11		14.565
12/12/14 22:12		14.565
12/12/14 22:13		14.565
12/12/14 22:14		14.565
12/12/14 22:15	7.499	13.997
12/12/14 22:16		13.997
12/12/14 22:17		13.997
12/12/14 22:18		13.997
12/12/14 22:19		13.997
12/12/14 22:20	7.337	13.457
12/12/14 22:21		13.457

Date and Time	Level (inches)	Flow (cfs)
12/12/14 22:22		13.457
12/12/14 22:23		13.457
12/12/14 22:24		13.457
12/12/14 22:25	7.533	14.111
12/12/14 22:26		14.111
12/12/14 22:27		14.111
12/12/14 22:28		14.111
12/12/14 22:29		14.111
12/12/14 22:30	7.397	13.656
12/12/14 22:31		13.656
12/12/14 22:32		13.656
12/12/14 22:33		13.656
12/12/14 22:34		13.656
12/12/14 22:35	7.482	13.94
12/12/14 22:36		13.94
12/12/14 22:37		13.94
12/12/14 22:38		13.94
12/12/14 22:39		13.94
12/12/14 22:40	7.474	13.912
12/12/14 22:41		13.912
12/12/14 22:42		13.912
12/12/14 22:43		13.912
12/12/14 22:44		13.912
12/12/14 22:45	7.414	13.713
12/12/14 22:46		13.713
12/12/14 22:47		13.713
12/12/14 22:48		13.713
12/12/14 22:49		13.713
12/12/14 22:50	7.456	13.855
12/12/14 22:51		13.855
12/12/14 22:52		13.855
12/12/14 22:53		13.855
12/12/14 22:54		13.855
12/12/14 22:55	7.295	13.315
12/12/14 22:56		13.315
12/12/14 22:57		13.315
12/12/14 22:58		13.315
12/12/14 22:59		13.315
12/12/14 23:00	7.346	13.486
12/12/14 23:01		13.486
12/12/14 23:02		13.486
12/12/14 23:03		13.486
12/12/14 23:04		13.486
12/12/14 23:05	7.175	12.938
12/12/14 23:06		12.938

Date and Time	Level (inches)	Flow (cfs)
12/12/14 23:07		12.938
12/12/14 23:08		12.938
12/12/14 23:09		12.938
12/12/14 23:10	7.269	13.23
12/12/14 23:11		13.23
12/12/14 23:12		13.23
12/12/14 23:13		13.23
12/12/14 23:14		13.23
12/12/14 23:15	7.252	13.173
12/12/14 23:16		13.173
12/12/14 23:17		13.173
12/12/14 23:18		13.173
12/12/14 23:19		13.173
12/12/14 23:20	7.405	13.684
12/12/14 23:21		13.684
12/12/14 23:22		13.684
12/12/14 23:23		13.684
12/12/14 23:24		13.684
12/12/14 23:25	7.431	13.77
12/12/14 23:26		13.77
12/12/14 23:27		13.77
12/12/14 23:28		13.77
12/12/14 23:29		13.77
12/12/14 23:30	7.431	13.77
12/12/14 23:31		13.77
12/12/14 23:32		13.77
12/12/14 23:33		13.77
12/12/14 23:34		13.77
12/12/14 23:35	7.405	13.684
12/12/14 23:36		13.684
12/12/14 23:37		13.684
12/12/14 23:38		13.684
12/12/14 23:39		13.684
12/12/14 23:40	7.661	14.537
12/12/14 23:41		14.537
12/12/14 23:42		14.537
12/12/14 23:43		14.537
12/12/14 23:44		14.537
12/12/14 23:45	8.113	16.043
12/12/14 23:46		16.043
12/12/14 23:47		16.043
12/12/14 23:48		16.043
12/12/14 23:49		16.043
12/12/14 23:50	8.496	17.402
12/12/14 23:51		17.402

Date and Time	Level (inches)	Flow (cfs)
12/12/14 23:52		17.402
12/12/14 23:53		17.402
12/12/14 23:54		17.402
12/12/14 23:55	8.548	17.615
12/12/14 23:56		17.615
12/12/14 23:57		17.615
12/12/14 23:58		17.615
12/12/14 23:59		17.615
12/13/14 0:00	8.249	16.497
12/13/14 0:01		16.497
12/13/14 0:02		16.497
12/13/14 0:03		16.497
12/13/14 0:04		16.497
12/13/14 0:05	8.42	17.082
12/13/14 0:06		17.082
12/13/14 0:07		17.082
12/13/14 0:08		17.082
12/13/14 0:09		17.082
12/13/14 0:10	8.505	17.437
12/13/14 0:11		17.437
12/13/14 0:12		17.437
12/13/14 0:13		17.437
12/13/14 0:14		17.437
12/13/14 0:15	8.599	17.828
12/13/14 0:16		17.828
12/13/14 0:17		17.828
12/13/14 0:18		17.828
12/13/14 0:19		17.828
12/13/14 0:20	8.88	19
12/13/14 0:21		19
12/13/14 0:22		19
12/13/14 0:23		19
12/13/14 0:24		19
12/13/14 0:25	9.298	20.74
12/13/14 0:26		20.74
12/13/14 0:27		20.74
12/13/14 0:28		20.74
12/13/14 0:29		20.74
12/13/14 0:30	9.383	21.095
12/13/14 0:31		21.095
12/13/14 0:32		21.095
12/13/14 0:33		21.095
12/13/14 0:34		21.095
12/13/14 0:35	10.508	25.784
12/13/14 0:36		25.784

Date and Time	Level (inches)	Flow (cfs)
12/13/14 0:37		25.784
12/13/14 0:38		25.784
12/13/14 0:39		25.784
12/13/14 0:40	12.895	38.219
12/13/14 0:41		38.219
12/13/14 0:42		38.219
12/13/14 0:43		38.219
12/13/14 0:44		38.219
12/13/14 0:45	13.67	42.744
12/13/14 0:46		42.744
12/13/14 0:47		42.744
12/13/14 0:48		42.744
12/13/14 0:49		42.744
12/13/14 0:50	13.918	44.186
12/13/14 0:51		44.186
12/13/14 0:52		44.186
12/13/14 0:53		44.186
12/13/14 0:54		44.186
12/13/14 0:55	13.722	43.043
12/13/14 0:56		43.043
12/13/14 0:57		43.043
12/13/14 0:58		43.043
12/13/14 0:59		43.043
12/13/14 1:00	13.943	44.335
12/13/14 1:01		44.335
12/13/14 1:02		44.335
12/13/14 1:03		44.335
12/13/14 1:04		44.335
12/13/14 1:05	14.762	49.109
12/13/14 1:06		49.109
12/13/14 1:07		49.109
12/13/14 1:08		49.109
12/13/14 1:09		49.109
12/13/14 1:10	14.395	46.971
12/13/14 1:11		46.971
12/13/14 1:12		46.971
12/13/14 1:13		46.971
12/13/14 1:14		46.971
12/13/14 1:15	14.02	44.783
12/13/14 1:16		44.783
12/13/14 1:17		44.783
12/13/14 1:18		44.783
12/13/14 1:19		44.783
12/13/14 1:20	13.636	42.545
12/13/14 1:21		42.545

Date and Time	Level (inches)	Flow (cfs)
12/13/14 1:22		42.545
12/13/14 1:23		42.545
12/13/14 1:24		42.545
12/13/14 1:25	12.835	37.871
12/13/14 1:26		37.871
12/13/14 1:27		37.871
12/13/14 1:28		37.871
12/13/14 1:29		37.871
12/13/14 1:30	12.784	37.573
12/13/14 1:31		37.573
12/13/14 1:32		37.573
12/13/14 1:33		37.573
12/13/14 1:34		37.573
12/13/14 1:35	12.179	34.043
12/13/14 1:36		34.043
12/13/14 1:37		34.043
12/13/14 1:38		34.043
12/13/14 1:39		34.043
12/13/14 1:40	11.966	32.828
12/13/14 1:41		32.828
12/13/14 1:42		32.828
12/13/14 1:43		32.828
12/13/14 1:44		32.828
12/13/14 1:45	11.582	30.91
12/13/14 1:46		30.91
12/13/14 1:47		30.91
12/13/14 1:48		30.91
12/13/14 1:49		30.91
12/13/14 1:50	11.147	28.737
12/13/14 1:51		28.737
12/13/14 1:52		28.737
12/13/14 1:53		28.737
12/13/14 1:54		28.737
12/13/14 1:55	10.985	27.927
12/13/14 1:56		27.927
12/13/14 1:57		27.927
12/13/14 1:58		27.927
12/13/14 1:59		27.927
12/13/14 2:00	10.474	25.641
12/13/14 2:01		25.641
12/13/14 2:02		25.641
12/13/14 2:03		25.641
12/13/14 2:04		25.641
12/13/14 2:05	10.423	25.428
12/13/14 2:06		25.428

Date and Time	Level (inches)	Flow (cfs)
12/13/14 2:07		25.428
12/13/14 2:08		25.428
12/13/14 2:09		25.428
12/13/14 2:10	10.423	25.428
12/13/14 2:11		25.428
12/13/14 2:12		25.428
12/13/14 2:13		25.428
12/13/14 2:14		25.428
12/13/14 2:15	10.193	24.469
12/13/14 2:16		24.469
12/13/14 2:17		24.469
12/13/14 2:18		24.469
12/13/14 2:19		24.469
12/13/14 2:20	10.465	25.606
12/13/14 2:21		25.606
12/13/14 2:22		25.606
12/13/14 2:23		25.606
12/13/14 2:24		25.606
12/13/14 2:25	10.397	25.322
12/13/14 2:26		25.322
12/13/14 2:27		25.322
12/13/14 2:28		25.322
12/13/14 2:29		25.322
12/13/14 2:30	10.806	27.032
12/13/14 2:31		27.032
12/13/14 2:32		27.032
12/13/14 2:33		27.032
12/13/14 2:34		27.032
12/13/14 2:35	10.764	26.849
12/13/14 2:36		26.849
12/13/14 2:37		26.849
12/13/14 2:38		26.849
12/13/14 2:39		26.849
12/13/14 2:40	10.875	27.373
12/13/14 2:41		27.373
12/13/14 2:42		27.373
12/13/14 2:43		27.373
12/13/14 2:44		27.373
12/13/14 2:45	10.585	26.103
12/13/14 2:46		26.103
12/13/14 2:47		26.103
12/13/14 2:48		26.103
12/13/14 2:49		26.103
12/13/14 2:50	10.457	25.57
12/13/14 2:51		25.57

Date and Time	Level (inches)	Flow (cfs)
12/13/14 2:52		25.57
12/13/14 2:53		25.57
12/13/14 2:54		25.57
12/13/14 2:55	10.61	26.21
12/13/14 2:56		26.21
12/13/14 2:57		26.21
12/13/14 2:58		26.21
12/13/14 2:59		26.21
12/13/14 3:00	10.056	23.901
12/13/14 3:01		23.901
12/13/14 3:02		23.901
12/13/14 3:03		23.901
12/13/14 3:04		23.901
12/13/14 3:05	10.142	24.256
12/13/14 3:06		24.256
12/13/14 3:07		24.256
12/13/14 3:08		24.256
12/13/14 3:09		24.256
12/13/14 3:10	9.673	22.303
12/13/14 3:11		22.303
12/13/14 3:12		22.303
12/13/14 3:13		22.303
12/13/14 3:14		22.303
12/13/14 3:15	9.605	22.019
12/13/14 3:16		22.019
12/13/14 3:17		22.019
12/13/14 3:18		22.019
12/13/14 3:19		22.019
12/13/14 3:20	9.528	21.699
12/13/14 3:21		21.699
12/13/14 3:22		21.699
12/13/14 3:23		21.699
12/13/14 3:24		21.699
12/13/14 3:25	9.204	20.35
12/13/14 3:26		20.35
12/13/14 3:27		20.35
12/13/14 3:28		20.35
12/13/14 3:29		20.35
12/13/14 3:30	9.11	19.959
12/13/14 3:31		19.959
12/13/14 3:32		19.959
12/13/14 3:33		19.959
12/13/14 3:34		19.959
12/13/14 3:35	8.965	19.355
12/13/14 3:36		19.355

Date and Time	Level (inches)	Flow (cfs)
12/13/14 3:37		19.355
12/13/14 3:38		19.355
12/13/14 3:39		19.355
12/13/14 3:40	8.871	18.964
12/13/14 3:41		18.964
12/13/14 3:42		18.964
12/13/14 3:43		18.964
12/13/14 3:44		18.964
12/13/14 3:45	8.744	18.432
12/13/14 3:46		18.432
12/13/14 3:47		18.432
12/13/14 3:48		18.432
12/13/14 3:49		18.432
12/13/14 3:50	8.65	18.041
12/13/14 3:51		18.041
12/13/14 3:52		18.041
12/13/14 3:53		18.041
12/13/14 3:54		18.041
12/13/14 3:55	8.778	18.574
12/13/14 3:56		18.574
12/13/14 3:57		18.574
12/13/14 3:58		18.574
12/13/14 3:59		18.574
12/13/14 4:00	8.496	17.402
12/13/14 4:01		17.402
12/13/14 4:02		17.402
12/13/14 4:03		17.402
12/13/14 4:04		17.402
12/13/14 4:05	8.633	17.97
12/13/14 4:06		17.97
12/13/14 4:07		17.97
12/13/14 4:08		17.97
12/13/14 4:09		17.97
12/13/14 4:10	8.369	16.895
12/13/14 4:11		16.895
12/13/14 4:12		16.895
12/13/14 4:13		16.895
12/13/14 4:14		16.895
12/13/14 4:15	8.292	16.639
12/13/14 4:16		16.639
12/13/14 4:17		16.639
12/13/14 4:18		16.639
12/13/14 4:19		16.639
12/13/14 4:20	8.377	16.924
12/13/14 4:21		16.924

Date and Time	Level (inches)	Flow (cfs)
12/13/14 4:22		16.924
12/13/14 4:23		16.924
12/13/14 4:24		16.924
12/13/14 4:25	8.104	16.014
12/13/14 4:26		16.014
12/13/14 4:27		16.014
12/13/14 4:28		16.014
12/13/14 4:29		16.014
12/13/14 4:30	8.377	16.924
12/13/14 4:31		16.924
12/13/14 4:32		16.924
12/13/14 4:33		16.924
12/13/14 4:34		16.924
12/13/14 4:35	8.036	15.787
12/13/14 4:36		15.787
12/13/14 4:37		15.787
12/13/14 4:38		15.787
12/13/14 4:39		15.787
12/13/14 4:40	8.232	16.441
12/13/14 4:41		16.441
12/13/14 4:42		16.441
12/13/14 4:43		16.441
12/13/14 4:44		16.441
12/13/14 4:45	7.959	15.531
12/13/14 4:46		15.531
12/13/14 4:47		15.531
12/13/14 4:48		15.531
12/13/14 4:49		15.531
12/13/14 4:50	7.883	15.276
12/13/14 4:51		15.276
12/13/14 4:52		15.276
12/13/14 4:53		15.276
12/13/14 4:54		15.276
12/13/14 4:55	7.908	15.361
12/13/14 4:56		15.361
12/13/14 4:57		15.361
12/13/14 4:58		15.361
12/13/14 4:59		15.361
12/13/14 5:00	8.224	16.412
12/13/14 5:01		16.412
12/13/14 5:02		16.412
12/13/14 5:03		16.412
12/13/14 5:04		16.412
12/13/14 5:05	7.857	15.19
12/13/14 5:06		15.19

Date and Time	Level (inches)	Flow (cfs)
12/13/14 5:07		15.19
12/13/14 5:08		15.19
12/13/14 5:09		15.19
12/13/14 5:10	7.729	14.764
12/13/14 5:11		14.764
12/13/14 5:12		14.764
12/13/14 5:13		14.764
12/13/14 5:14		14.764
12/13/14 5:15	7.823	15.077
12/13/14 5:16		15.077
12/13/14 5:17		15.077
12/13/14 5:18		15.077
12/13/14 5:19		15.077
12/13/14 5:20	7.508	14.025
12/13/14 5:21		14.025
12/13/14 5:22		14.025
12/13/14 5:23		14.025
12/13/14 5:24		14.025
12/13/14 5:25	7.439	13.798
12/13/14 5:26		13.798
12/13/14 5:27		13.798
12/13/14 5:28		13.798
12/13/14 5:29		13.798
12/13/14 5:30	7.746	14.821
12/13/14 5:31		14.821
12/13/14 5:32		14.821
12/13/14 5:33		14.821
12/13/14 5:34		14.821
12/13/14 5:35	7.704	14.679
12/13/14 5:36		14.679
12/13/14 5:37		14.679
12/13/14 5:38		14.679
12/13/14 5:39		14.679
12/13/14 5:40	7.397	13.656
12/13/14 5:41		13.656
12/13/14 5:42		13.656
12/13/14 5:43		13.656
12/13/14 5:44		13.656
12/13/14 5:45	7.474	13.912
12/13/14 5:46		13.912
12/13/14 5:47		13.912
12/13/14 5:48		13.912
12/13/14 5:49		13.912
12/13/14 5:50	7.38	13.599
12/13/14 5:51		13.599

Date and Time	Level (inches)	Flow (cfs)
12/13/14 5:52		13.599
12/13/14 5:53		13.599
12/13/14 5:54		13.599
12/13/14 5:55	7.388	13.628
12/13/14 5:56		13.628
12/13/14 5:57		13.628
12/13/14 5:58		13.628
12/13/14 5:59		13.628
12/13/14 6:00	7.184	12.959
12/13/14 6:01		12.959
12/13/14 6:02		12.959
12/13/14 6:03		12.959
12/13/14 6:04		12.959
12/13/14 6:05	7.201	13.003
12/13/14 6:06		13.003
12/13/14 6:07		13.003
12/13/14 6:08		13.003
12/13/14 6:09		13.003
12/13/14 6:10	7.15	12.874
12/13/14 6:11		12.874
12/13/14 6:12		12.874
12/13/14 6:13		12.874
12/13/14 6:14		12.874
12/13/14 6:15	7.184	12.959
12/13/14 6:16		12.959
12/13/14 6:17		12.959
12/13/14 6:18		12.959
12/13/14 6:19		12.959
12/13/14 6:20	7.107	12.767
12/13/14 6:21		12.767
12/13/14 6:22		12.767
12/13/14 6:23		12.767
12/13/14 6:24		12.767
12/13/14 6:25	7.09	12.725
12/13/14 6:26		12.725
12/13/14 6:27		12.725
12/13/14 6:28		12.725
12/13/14 6:29		12.725
12/13/14 6:30	7.098	12.746
12/13/14 6:31		12.746
12/13/14 6:32		12.746
12/13/14 6:33		12.746
12/13/14 6:34		12.746
12/13/14 6:35	7.081	12.704
12/13/14 6:36		12.704

Date and Time	Level (inches)	Flow (cfs)
12/13/14 6:37		12.704
12/13/14 6:38		12.704
12/13/14 6:39		12.704
12/13/14 6:40	6.894	12.235
12/13/14 6:41		12.235
12/13/14 6:42		12.235
12/13/14 6:43		12.235
12/13/14 6:44		12.235
12/13/14 6:45	7.013	12.533
12/13/14 6:46		12.533
12/13/14 6:47		12.533
12/13/14 6:48		12.533
12/13/14 6:49		12.533
12/13/14 6:50	6.843	12.107
12/13/14 6:51		12.107
12/13/14 6:52		12.107
12/13/14 6:53		12.107
12/13/14 6:54		12.107
12/13/14 6:55	6.817	12.043
12/13/14 6:56		12.043
12/13/14 6:57		12.043
12/13/14 6:58		12.043
12/13/14 6:59		12.043
12/13/14 7:00	6.792	11.979
12/13/14 7:01		11.979
12/13/14 7:02		11.979
12/13/14 7:03		11.979
12/13/14 7:04		11.979
12/13/14 7:05	6.809	12.022
12/13/14 7:06		12.022
12/13/14 7:07		12.022
12/13/14 7:08		12.022
12/13/14 7:09		12.022
12/13/14 7:10	6.834	12.086
12/13/14 7:11		12.086
12/13/14 7:12		12.086
12/13/14 7:13		12.086
12/13/14 7:14		12.086
12/13/14 7:15	6.732	11.83
12/13/14 7:16		11.83
12/13/14 7:17		11.83
12/13/14 7:18		11.83
12/13/14 7:19		11.83
12/13/14 7:20	6.689	11.723
12/13/14 7:21		11.723

Date and Time	Level (inches)	Flow (cfs)
12/13/14 7:22		11.723
12/13/14 7:23		11.723
12/13/14 7:24		11.723
12/13/14 7:25	6.655	11.638
12/13/14 7:26		11.638
12/13/14 7:27		11.638
12/13/14 7:28		11.638
12/13/14 7:29		11.638
12/13/14 7:30	6.621	11.553
12/13/14 7:31		11.553
12/13/14 7:32		11.553
12/13/14 7:33		11.553
12/13/14 7:34		11.553
12/13/14 7:35	6.715	11.787
12/13/14 7:36		11.787
12/13/14 7:37		11.787
12/13/14 7:38		11.787
12/13/14 7:39		11.787
12/13/14 7:40	6.664	11.659
12/13/14 7:41		11.659
12/13/14 7:42		11.659
12/13/14 7:43		11.659
12/13/14 7:44		11.659
12/13/14 7:45	6.604	11.51
12/13/14 7:46		11.51
12/13/14 7:47		11.51
12/13/14 7:48		11.51
12/13/14 7:49		11.51
12/13/14 7:50	6.425	11.063
12/13/14 7:51		11.063
12/13/14 7:52		11.063
12/13/14 7:53		11.063
12/13/14 7:54		11.063
12/13/14 7:55	6.417	11.041
12/13/14 7:56		11.041
12/13/14 7:57		11.041
12/13/14 7:58		11.041
12/13/14 7:59		11.041
12/13/14 8:00	6.502	11.254
12/13/14 8:01		11.254
12/13/14 8:02		11.254
12/13/14 8:03		11.254
12/13/14 8:04		11.254
12/13/14 8:05	6.493	11.233
12/13/14 8:06		11.233

Date and Time	Level (inches)	Flow (cfs)
12/13/14 8:07		11.233
12/13/14 8:08		11.233
12/13/14 8:09		11.233
12/13/14 8:10	6.485	11.212
12/13/14 8:11		11.212
12/13/14 8:12		11.212
12/13/14 8:13		11.212
12/13/14 8:14		11.212
12/13/14 8:15	6.399	10.999
12/13/14 8:16		10.999
12/13/14 8:17		10.999
12/13/14 8:18		10.999
12/13/14 8:19		10.999
12/13/14 8:20	6.459	11.148
12/13/14 8:21		11.148
12/13/14 8:22		11.148
12/13/14 8:23		11.148
12/13/14 8:24		11.148
12/13/14 8:25	6.382	10.956
12/13/14 8:26		10.956
12/13/14 8:27		10.956
12/13/14 8:28		10.956
12/13/14 8:29		10.956
12/13/14 8:30	6.357	10.892
12/13/14 8:31		10.892
12/13/14 8:32		10.892
12/13/14 8:33		10.892
12/13/14 8:34		10.892
12/13/14 8:35	6.331	10.828

Table F-8. Storm 2 LAR Flow

Date and Time	Level (inches)	Flow (cfs)
12/11/14 14:35	16.463	148.5
12/11/14 14:36		148.5
12/11/14 14:37		148.5
12/11/14 14:38		148.5
12/11/14 14:39		148.5
12/11/14 14:40	16.376	146.7
12/11/14 14:41		146.7
12/11/14 14:42		146.7
12/11/14 14:43		146.7
12/11/14 14:44		146.7
12/11/14 14:45	16.416	147.5
12/11/14 14:46		147.5
12/11/14 14:47		147.5
12/11/14 14:48		147.5
12/11/14 14:49		147.5
12/11/14 14:50	16.487	149.0
12/11/14 14:51		149.0
12/11/14 14:52		149.0
12/11/14 14:53		149.0
12/11/14 14:54		149.0
12/11/14 14:55	16.471	148.7
12/11/14 14:56		148.7
12/11/14 14:57		148.7
12/11/14 14:58		148.7
12/11/14 14:59		148.7
12/11/14 15:00	16.471	148.7
12/11/14 15:01		148.7
12/11/14 15:02		148.7
12/11/14 15:03		148.7
12/11/14 15:04		148.7
12/11/14 15:05	16.511	149.5
12/11/14 15:06		149.5
12/11/14 15:07		149.5
12/11/14 15:08		149.5
12/11/14 15:09		149.5
12/11/14 15:10	16.4	147.2
12/11/14 15:11		147.2
12/11/14 15:12		147.2
12/11/14 15:13		147.2
12/11/14 15:14		147.2
12/11/14 15:15	16.447	148.2
12/11/14 15:16		148.2
12/11/14 15:17		148.2

Date and Time	Level (inches)	Flow (cfs)
12/11/14 15:18		148.2
12/11/14 15:19		148.2
12/11/14 15:20	16.384	146.9
12/11/14 15:21		146.9
12/11/14 15:22		146.9
12/11/14 15:23		146.9
12/11/14 15:24		146.9
12/11/14 15:25	16.447	148.2
12/11/14 15:26		148.2
12/11/14 15:27		148.2
12/11/14 15:28		148.2
12/11/14 15:29		148.2
12/11/14 15:30	16.408	147.4
12/11/14 15:31		147.4
12/11/14 15:32		147.4
12/11/14 15:33		147.4
12/11/14 15:34		147.4
12/11/14 15:35	16.416	147.5
12/11/14 15:36		147.5
12/11/14 15:37		147.5
12/11/14 15:38		147.5
12/11/14 15:39		147.5
12/11/14 15:40	16.479	148.8
12/11/14 15:41		148.8
12/11/14 15:42		148.8
12/11/14 15:43		148.8
12/11/14 15:44		148.8
12/11/14 15:45	16.479	148.8
12/11/14 15:46		148.8
12/11/14 15:47		148.8
12/11/14 15:48		148.8
12/11/14 15:49		148.8
12/11/14 15:50	16.479	148.8
12/11/14 15:51		148.8
12/11/14 15:52		148.8
12/11/14 15:53		148.8
12/11/14 15:54		148.8
12/11/14 15:55	16.392	147.0
12/11/14 15:56		147.0
12/11/14 15:57		147.0
12/11/14 15:58		147.0
12/11/14 15:59		147.0
12/11/14 16:00	16.487	149.0
12/11/14 16:01		149.0
12/11/14 16:02		149.0

Date and Time	Level (inches)	Flow (cfs)
12/11/14 16:03		149.0
12/11/14 16:04		149.0
12/11/14 16:05	16.439	148.0
12/11/14 16:06		148.0
12/11/14 16:07		148.0
12/11/14 16:08		148.0
12/11/14 16:09		148.0
12/11/14 16:10	16.376	146.7
12/11/14 16:11		146.7
12/11/14 16:12		146.7
12/11/14 16:13		146.7
12/11/14 16:14		146.7
12/11/14 16:15	16.392	147.0
12/11/14 16:16		147.0
12/11/14 16:17		147.0
12/11/14 16:18		147.0
12/11/14 16:19		147.0
12/11/14 16:20	16.471	148.7
12/11/14 16:21		148.7
12/11/14 16:22		148.7
12/11/14 16:23		148.7
12/11/14 16:24		148.7
12/11/14 16:25	16.392	147.0
12/11/14 16:26		147.0
12/11/14 16:27		147.0
12/11/14 16:28		147.0
12/11/14 16:29		147.0
12/11/14 16:30	16.376	146.7
12/11/14 16:31		146.7
12/11/14 16:32		146.7
12/11/14 16:33		146.7
12/11/14 16:34		146.7
12/11/14 16:35	16.352	146.2
12/11/14 16:36		146.2
12/11/14 16:37		146.2
12/11/14 16:38		146.2
12/11/14 16:39		146.2
12/11/14 16:40	16.376	146.7
12/11/14 16:41		146.7
12/11/14 16:42		146.7
12/11/14 16:43		146.7
12/11/14 16:44		146.7
12/11/14 16:45	16.408	147.4
12/11/14 16:46		147.4
12/11/14 16:47		147.4

Date and Time	Level (inches)	Flow (cfs)
12/11/14 16:48		147.4
12/11/14 16:49		147.4
12/11/14 16:50	16.416	147.5
12/11/14 16:51		147.5
12/11/14 16:52		147.5
12/11/14 16:53		147.5
12/11/14 16:54		147.5
12/11/14 16:55	16.463	148.5
12/11/14 16:56		148.5
12/11/14 16:57		148.5
12/11/14 16:58		148.5
12/11/14 16:59		148.5
12/11/14 17:00	16.463	148.5
12/11/14 17:01		148.5
12/11/14 17:02		148.5
12/11/14 17:03		148.5
12/11/14 17:04		148.5
12/11/14 17:05	16.408	147.4
12/11/14 17:06		147.4
12/11/14 17:07		147.4
12/11/14 17:08		147.4
12/11/14 17:09		147.4
12/11/14 17:10	16.368	146.5
12/11/14 17:11		146.5
12/11/14 17:12		146.5
12/11/14 17:13		146.5
12/11/14 17:14		146.5
12/11/14 17:15	16.439	148.0
12/11/14 17:16		148.0
12/11/14 17:17		148.0
12/11/14 17:18		148.0
12/11/14 17:19		148.0
12/11/14 17:20	16.463	148.5
12/11/14 17:21		148.5
12/11/14 17:22		148.5
12/11/14 17:23		148.5
12/11/14 17:24		148.5
12/11/14 17:25	16.511	149.5
12/11/14 17:26		149.5
12/11/14 17:27		149.5
12/11/14 17:28		149.5
12/11/14 17:29		149.5
12/11/14 17:30	16.424	147.7
12/11/14 17:31		147.7
12/11/14 17:32		147.7

Date and Time	Level (inches)	Flow (cfs)
12/11/14 17:33		147.7
12/11/14 17:34		147.7
12/11/14 17:35	16.392	147.0
12/11/14 17:36		147.0
12/11/14 17:37		147.0
12/11/14 17:38		147.0
12/11/14 17:39		147.0
12/11/14 17:40	16.487	149.0
12/11/14 17:41		149.0
12/11/14 17:42		149.0
12/11/14 17:43		149.0
12/11/14 17:44		149.0
12/11/14 17:45	16.392	147.0
12/11/14 17:46		147.0
12/11/14 17:47		147.0
12/11/14 17:48		147.0
12/11/14 17:49		147.0
12/11/14 17:50	16.447	148.2
12/11/14 17:51		148.2
12/11/14 17:52		148.2
12/11/14 17:53		148.2
12/11/14 17:54		148.2
12/11/14 17:55	16.447	148.2
12/11/14 17:56		148.2
12/11/14 17:57		148.2
12/11/14 17:58		148.2
12/11/14 17:59		148.2
12/11/14 18:00	16.527	149.8
12/11/14 18:01		149.8
12/11/14 18:02		149.8
12/11/14 18:03		149.8
12/11/14 18:04		149.8
12/11/14 18:05	16.471	148.7
12/11/14 18:06		148.7
12/11/14 18:07		148.7
12/11/14 18:08		148.7
12/11/14 18:09		148.7
12/11/14 18:10	16.527	149.8
12/11/14 18:11		149.8
12/11/14 18:12		149.8
12/11/14 18:13		149.8
12/11/14 18:14		149.8
12/11/14 18:15	16.424	147.7
12/11/14 18:16		147.7
12/11/14 18:17		147.7

Date and Time	Level (inches)	Flow (cfs)
12/11/14 18:18		147.7
12/11/14 18:19		147.7
12/11/14 18:20	16.36	146.4
12/11/14 18:21		146.4
12/11/14 18:22		146.4
12/11/14 18:23		146.4
12/11/14 18:24		146.4
12/11/14 18:25	16.447	148.2
12/11/14 18:26		148.2
12/11/14 18:27		148.2
12/11/14 18:28		148.2
12/11/14 18:29		148.2
12/11/14 18:30	16.439	148.0
12/11/14 18:31		148.0
12/11/14 18:32		148.0
12/11/14 18:33		148.0
12/11/14 18:34		148.0
12/11/14 18:35	16.519	149.6
12/11/14 18:36		149.6
12/11/14 18:37		149.6
12/11/14 18:38		149.6
12/11/14 18:39		149.6
12/11/14 18:40	16.4	147.2
12/11/14 18:41		147.2
12/11/14 18:42		147.2
12/11/14 18:43		147.2
12/11/14 18:44		147.2
12/11/14 18:45	16.376	146.7
12/11/14 18:46		146.7
12/11/14 18:47		146.7
12/11/14 18:48		146.7
12/11/14 18:49		146.7
12/11/14 18:50	16.431	147.8
12/11/14 18:51		147.8
12/11/14 18:52		147.8
12/11/14 18:53		147.8
12/11/14 18:54		147.8
12/11/14 18:55	16.527	149.8
12/11/14 18:56		149.8
12/11/14 18:57		149.8
12/11/14 18:58		149.8
12/11/14 18:59		149.8
12/11/14 19:00	16.511	149.5
12/11/14 19:01		149.5
12/11/14 19:02		149.5

Date and Time	Level (inches)	Flow (cfs)
12/11/14 19:03		149.5
12/11/14 19:04		149.5
12/11/14 19:05	16.352	146.2
12/11/14 19:06		146.2
12/11/14 19:07		146.2
12/11/14 19:08		146.2
12/11/14 19:09		146.2
12/11/14 19:10	16.368	146.5
12/11/14 19:11		146.5
12/11/14 19:12		146.5
12/11/14 19:13		146.5
12/11/14 19:14		146.5
12/11/14 19:15	16.511	149.5
12/11/14 19:16		149.5
12/11/14 19:17		149.5
12/11/14 19:18		149.5
12/11/14 19:19		149.5
12/11/14 19:20	16.463	148.5
12/11/14 19:21		148.5
12/11/14 19:22		148.5
12/11/14 19:23		148.5
12/11/14 19:24		148.5
12/11/14 19:25	16.4	147.2
12/11/14 19:26		147.2
12/11/14 19:27		147.2
12/11/14 19:28		147.2
12/11/14 19:29		147.2
12/11/14 19:30	16.424	147.7
12/11/14 19:31		147.7
12/11/14 19:32		147.7
12/11/14 19:33		147.7
12/11/14 19:34		147.7
12/11/14 19:35	16.424	147.7
12/11/14 19:36		147.7
12/11/14 19:37		147.7
12/11/14 19:38		147.7
12/11/14 19:39		147.7
12/11/14 19:40	16.36	146.4
12/11/14 19:41		146.4
12/11/14 19:42		146.4
12/11/14 19:43		146.4
12/11/14 19:44		146.4
12/11/14 19:45	16.36	146.4
12/11/14 19:46		146.4
12/11/14 19:47		146.4

Date and Time	Level (inches)	Flow (cfs)
12/11/14 19:48		146.4
12/11/14 19:49		146.4
12/11/14 19:50	16.463	148.5
12/11/14 19:51		148.5
12/11/14 19:52		148.5
12/11/14 19:53		148.5
12/11/14 19:54		148.5
12/11/14 19:55	16.535	150.0
12/11/14 19:56		150.0
12/11/14 19:57		150.0
12/11/14 19:58		150.0
12/11/14 19:59		150.0
12/11/14 20:00	16.535	150.0
12/11/14 20:01		150.0
12/11/14 20:02		150.0
12/11/14 20:03		150.0
12/11/14 20:04		150.0
12/11/14 20:05	16.543	150.1
12/11/14 20:06		150.1
12/11/14 20:07		150.1
12/11/14 20:08		150.1
12/11/14 20:09		150.1
12/11/14 20:10	16.431	147.8
12/11/14 20:11		147.8
12/11/14 20:12		147.8
12/11/14 20:13		147.8
12/11/14 20:14		147.8
12/11/14 20:15	16.278	144.7
12/11/14 20:16		144.7
12/11/14 20:17		144.7
12/11/14 20:18		144.7
12/11/14 20:19		144.7
12/11/14 20:20	16.463	148.5
12/11/14 20:21		148.5
12/11/14 20:22		148.5
12/11/14 20:23		148.5
12/11/14 20:24		148.5
12/11/14 20:25	16.455	148.3
12/11/14 20:26		148.3
12/11/14 20:27		148.3
12/11/14 20:28		148.3
12/11/14 20:29		148.3
12/11/14 20:30	16.376	146.7
12/11/14 20:31		146.7
12/11/14 20:32		146.7

Date and Time	Level (inches)	Flow (cfs)
12/11/14 20:33		146.7
12/11/14 20:34		146.7
12/11/14 20:35	16.439	148.0
12/11/14 20:36		148.0
12/11/14 20:37		148.0
12/11/14 20:38		148.0
12/11/14 20:39		148.0
12/11/14 20:40	16.463	148.5
12/11/14 20:41		148.5
12/11/14 20:42		148.5
12/11/14 20:43		148.5
12/11/14 20:44		148.5
12/11/14 20:45	16.447	148.2
12/11/14 20:46		148.2
12/11/14 20:47		148.2
12/11/14 20:48		148.2
12/11/14 20:49		148.2
12/11/14 20:50	16.471	148.7
12/11/14 20:51		148.7
12/11/14 20:52		148.7
12/11/14 20:53		148.7
12/11/14 20:54		148.7
12/11/14 20:55	16.4	147.2
12/11/14 20:56		147.2
12/11/14 20:57		147.2
12/11/14 20:58		147.2
12/11/14 20:59		147.2
12/11/14 21:00	16.392	147.0
12/11/14 21:01		147.0
12/11/14 21:02		147.0
12/11/14 21:03		147.0
12/11/14 21:04		147.0
12/11/14 21:05	16.4	147.2
12/11/14 21:06		147.2
12/11/14 21:07		147.2
12/11/14 21:08		147.2
12/11/14 21:09		147.2
12/11/14 21:10	16.392	147.0
12/11/14 21:11		147.0
12/11/14 21:12		147.0
12/11/14 21:13		147.0
12/11/14 21:14		147.0
12/11/14 21:15	16.471	148.7
12/11/14 21:16		148.7
12/11/14 21:17		148.7

Date and Time	Level (inches)	Flow (cfs)
12/11/14 21:18		148.7
12/11/14 21:19		148.7
12/11/14 21:20	16.447	148.2
12/11/14 21:21		148.2
12/11/14 21:22		148.2
12/11/14 21:23		148.2
12/11/14 21:24		148.2
12/11/14 21:25	16.368	146.5
12/11/14 21:26		146.5
12/11/14 21:27		146.5
12/11/14 21:28		146.5
12/11/14 21:29		146.5
12/11/14 21:30	16.424	147.7
12/11/14 21:31		147.7
12/11/14 21:32		147.7
12/11/14 21:33		147.7
12/11/14 21:34		147.7
12/11/14 21:35	16.455	148.3
12/11/14 21:36		148.3
12/11/14 21:37		148.3
12/11/14 21:38		148.3
12/11/14 21:39		148.3
12/11/14 21:40	16.384	146.9
12/11/14 21:41		146.9
12/11/14 21:42		146.9
12/11/14 21:43		146.9
12/11/14 21:44		146.9
12/11/14 21:45	16.455	148.3
12/11/14 21:46		148.3
12/11/14 21:47		148.3
12/11/14 21:48		148.3
12/11/14 21:49		148.3
12/11/14 21:50	16.463	148.5
12/11/14 21:51		148.5
12/11/14 21:52		148.5
12/11/14 21:53		148.5
12/11/14 21:54		148.5
12/11/14 21:55	16.439	148.0
12/11/14 21:56		148.0
12/11/14 21:57		148.0
12/11/14 21:58		148.0
12/11/14 21:59		148.0
12/11/14 22:00	16.344	146.1
12/11/14 22:01		146.1
12/11/14 22:02		146.1

Date and Time	Level (inches)	Flow (cfs)
12/11/14 22:03		146.1
12/11/14 22:04		146.1
12/11/14 22:05	16.511	149.5
12/11/14 22:06		149.5
12/11/14 22:07		149.5
12/11/14 22:08		149.5
12/11/14 22:09		149.5
12/11/14 22:10	16.414	147.5
12/11/14 22:11		147.5
12/11/14 22:12		147.5
12/11/14 22:13		147.5
12/11/14 22:14		147.5
12/11/14 22:15	16.408	147.4
12/11/14 22:16		147.4
12/11/14 22:17		147.4
12/11/14 22:18		147.4
12/11/14 22:19		147.4
12/11/14 22:20	16.31	145.3
12/11/14 22:21		145.3
12/11/14 22:22		145.3
12/11/14 22:23		145.3
12/11/14 22:24		145.3
12/11/14 22:25	16.408	147.4
12/11/14 22:26		147.4
12/11/14 22:27		147.4
12/11/14 22:28		147.4
12/11/14 22:29		147.4
12/11/14 22:30	16.511	149.5
12/11/14 22:31		149.5
12/11/14 22:32		149.5
12/11/14 22:33		149.5
12/11/14 22:34		149.5
12/11/14 22:35	16.495	149.2
12/11/14 22:36		149.2
12/11/14 22:37		149.2
12/11/14 22:38		149.2
12/11/14 22:39		149.2
12/11/14 22:40	16.431	147.8
12/11/14 22:41		147.8
12/11/14 22:42		147.8
12/11/14 22:43		147.8
12/11/14 22:44		147.8
12/11/14 22:45	16.375	146.7
12/11/14 22:46		146.7
12/11/14 22:47		146.7

Date and Time	Level (inches)	Flow (cfs)
12/11/14 22:48		146.7
12/11/14 22:49		146.7
12/11/14 22:50	16.447	148.2
12/11/14 22:51		148.2
12/11/14 22:52		148.2
12/11/14 22:53		148.2
12/11/14 22:54		148.2
12/11/14 22:55	16.455	148.3
12/11/14 22:56		148.3
12/11/14 22:57		148.3
12/11/14 22:58		148.3
12/11/14 22:59		148.3
12/11/14 23:00	16.39	147.0
12/11/14 23:01		147.0
12/11/14 23:02		147.0
12/11/14 23:03		147.0
12/11/14 23:04		147.0
12/11/14 23:05	16.36	146.4
12/11/14 23:06		146.4
12/11/14 23:07		146.4
12/11/14 23:08		146.4
12/11/14 23:09		146.4
12/11/14 23:10	16.343	146.0
12/11/14 23:11		146.0
12/11/14 23:12		146.0
12/11/14 23:13		146.0
12/11/14 23:14		146.0
12/11/14 23:15	16.246	144.0
12/11/14 23:16		144.0
12/11/14 23:17		144.0
12/11/14 23:18		144.0
12/11/14 23:19		144.0
12/11/14 23:20	16.231	143.7
12/11/14 23:21		143.7
12/11/14 23:22		143.7
12/11/14 23:23		143.7
12/11/14 23:24		143.7
12/11/14 23:25	16.223	143.6
12/11/14 23:26		143.6
12/11/14 23:27		143.6
12/11/14 23:28		143.6
12/11/14 23:29		143.6
12/11/14 23:30	16.172	142.5
12/11/14 23:31		142.5
12/11/14 23:32		142.5

Date and Time	Level (inches)	Flow (cfs)
12/11/14 23:33		142.5
12/11/14 23:34		142.5
12/11/14 23:35	16.189	142.9
12/11/14 23:36		142.9
12/11/14 23:37		142.9
12/11/14 23:38		142.9
12/11/14 23:39		142.9
12/11/14 23:40	16.155	142.2
12/11/14 23:41		142.2
12/11/14 23:42		142.2
12/11/14 23:43		142.2
12/11/14 23:44		142.2
12/11/14 23:45	16.18	142.7
12/11/14 23:46		142.7
12/11/14 23:47		142.7
12/11/14 23:48		142.7
12/11/14 23:49		142.7
12/11/14 23:50	16.206	143.2
12/11/14 23:51		143.2
12/11/14 23:52		143.2
12/11/14 23:53		143.2
12/11/14 23:54		143.2
12/11/14 23:55	16.197	143.0
12/11/14 23:56		143.0
12/11/14 23:57		143.0
12/11/14 23:58		143.0
12/11/14 23:59		143.0
12/12/14 0:00	16.206	143.2
12/12/14 0:01		143.2
12/12/14 0:02		143.2
12/12/14 0:03		143.2
12/12/14 0:04		143.2
12/12/14 0:05	16.189	142.9
12/12/14 0:06		142.9
12/12/14 0:07		142.9
12/12/14 0:08		142.9
12/12/14 0:09		142.9
12/12/14 0:10	16.239	143.9
12/12/14 0:11		143.9
12/12/14 0:12		143.9
12/12/14 0:13		143.9
12/12/14 0:14		143.9
12/12/14 0:15	16.189	142.9
12/12/14 0:16		142.9
12/12/14 0:17		142.9

Date and Time	Level (inches)	Flow (cfs)
12/12/14 0:18		142.9
12/12/14 0:19		142.9
12/12/14 0:20	16.262	144.4
12/12/14 0:21		144.4
12/12/14 0:22		144.4
12/12/14 0:23		144.4
12/12/14 0:24		144.4
12/12/14 0:25	16.214	143.4
12/12/14 0:26		143.4
12/12/14 0:27		143.4
12/12/14 0:28		143.4
12/12/14 0:29		143.4
12/12/14 0:30	16.197	143.0
12/12/14 0:31		143.0
12/12/14 0:32		143.0
12/12/14 0:33		143.0
12/12/14 0:34		143.0
12/12/14 0:35	16.246	144.0
12/12/14 0:36		144.0
12/12/14 0:37		144.0
12/12/14 0:38		144.0
12/12/14 0:39		144.0
12/12/14 0:40	16.288	144.9
12/12/14 0:41		144.9
12/12/14 0:42		144.9
12/12/14 0:43		144.9
12/12/14 0:44		144.9
12/12/14 0:45	16.222	143.6
12/12/14 0:46		143.6
12/12/14 0:47		143.6
12/12/14 0:48		143.6
12/12/14 0:49		143.6
12/12/14 0:50	16.375	146.7
12/12/14 0:51		146.7
12/12/14 0:52		146.7
12/12/14 0:53		146.7
12/12/14 0:54		146.7
12/12/14 0:55	16.583	150.9
12/12/14 0:56		150.9
12/12/14 0:57		150.9
12/12/14 0:58		150.9
12/12/14 0:59		150.9
12/12/14 1:00	16.511	149.5
12/12/14 1:01		149.5
12/12/14 1:02		149.5

Date and Time	Level (inches)	Flow (cfs)
12/12/14 1:03		149.5
12/12/14 1:04		149.5
12/12/14 1:05	16.535	150.0
12/12/14 1:06		150.0
12/12/14 1:07		150.0
12/12/14 1:08		150.0
12/12/14 1:09		150.0
12/12/14 1:10	16.447	148.2
12/12/14 1:11		148.2
12/12/14 1:12		148.2
12/12/14 1:13		148.2
12/12/14 1:14		148.2
12/12/14 1:15	16.527	149.8
12/12/14 1:16		149.8
12/12/14 1:17		149.8
12/12/14 1:18		149.8
12/12/14 1:19		149.8
12/12/14 1:20	16.535	150.0
12/12/14 1:21		150.0
12/12/14 1:22		150.0
12/12/14 1:23		150.0
12/12/14 1:24		150.0
12/12/14 1:25	16.487	149.0
12/12/14 1:26		149.0
12/12/14 1:27		149.0
12/12/14 1:28		149.0
12/12/14 1:29		149.0
12/12/14 1:30	16.439	148.0
12/12/14 1:31		148.0
12/12/14 1:32		148.0
12/12/14 1:33		148.0
12/12/14 1:34		148.0
12/12/14 1:35	16.503	149.3
12/12/14 1:36		149.3
12/12/14 1:37		149.3
12/12/14 1:38		149.3
12/12/14 1:39		149.3
12/12/14 1:40	16.607	151.4
12/12/14 1:41		151.4
12/12/14 1:42		151.4
12/12/14 1:43		151.4
12/12/14 1:44		151.4
12/12/14 1:45	16.782	155.0
12/12/14 1:46		155.0
12/12/14 1:47		155.0

Date and Time	Level (inches)	Flow (cfs)
12/12/14 1:48		155.0
12/12/14 1:49		155.0
12/12/14 1:50	16.742	154.2
12/12/14 1:51		154.2
12/12/14 1:52		154.2
12/12/14 1:53		154.2
12/12/14 1:54		154.2
12/12/14 1:55	16.79	155.2
12/12/14 1:56		155.2
12/12/14 1:57		155.2
12/12/14 1:58		155.2
12/12/14 1:59		155.2
12/12/14 2:00	16.814	155.7
12/12/14 2:01		155.7
12/12/14 2:02		155.7
12/12/14 2:03		155.7
12/12/14 2:04		155.7
12/12/14 2:05	16.822	155.8
12/12/14 2:06		155.8
12/12/14 2:07		155.8
12/12/14 2:08		155.8
12/12/14 2:09		155.8
12/12/14 2:10	16.893	157.3
12/12/14 2:11		157.3
12/12/14 2:12		157.3
12/12/14 2:13		157.3
12/12/14 2:14		157.3
12/12/14 2:15	16.79	155.2
12/12/14 2:16		155.2
12/12/14 2:17		155.2
12/12/14 2:18		155.2
12/12/14 2:19		155.2
12/12/14 2:20	16.798	155.4
12/12/14 2:21		155.4
12/12/14 2:22		155.4
12/12/14 2:23		155.4
12/12/14 2:24		155.4
12/12/14 2:25	16.853	156.5
12/12/14 2:26		156.5
12/12/14 2:27		156.5
12/12/14 2:28		156.5
12/12/14 2:29		156.5
12/12/14 2:30	16.853	156.5
12/12/14 2:31		156.5
12/12/14 2:32		156.5

Date and Time	Level (inches)	Flow (cfs)
12/12/14 2:33		156.5
12/12/14 2:34		156.5
12/12/14 2:35	16.869	156.8
12/12/14 2:36		156.8
12/12/14 2:37		156.8
12/12/14 2:38		156.8
12/12/14 2:39		156.8
12/12/14 2:40	16.877	157.0
12/12/14 2:41		157.0
12/12/14 2:42		157.0
12/12/14 2:43		157.0
12/12/14 2:44		157.0
12/12/14 2:45	16.853	156.5
12/12/14 2:46		156.5
12/12/14 2:47		156.5
12/12/14 2:48		156.5
12/12/14 2:49		156.5
12/12/14 2:50	16.806	155.5
12/12/14 2:51		155.5
12/12/14 2:52		155.5
12/12/14 2:53		155.5
12/12/14 2:54		155.5
12/12/14 2:55	16.853	156.5
12/12/14 2:56		156.5
12/12/14 2:57		156.5
12/12/14 2:58		156.5
12/12/14 2:59		156.5
12/12/14 3:00	16.869	156.8
12/12/14 3:01		156.8
12/12/14 3:02		156.8
12/12/14 3:03		156.8
12/12/14 3:04		156.8
12/12/14 3:05	16.814	155.7
12/12/14 3:06		155.7
12/12/14 3:07		155.7
12/12/14 3:08		155.7
12/12/14 3:09		155.7
12/12/14 3:10	16.806	155.5
12/12/14 3:11		155.5
12/12/14 3:12		155.5
12/12/14 3:13		155.5
12/12/14 3:14		155.5
12/12/14 3:15	16.798	155.4
12/12/14 3:16		155.4
12/12/14 3:17		155.4

Date and Time	Level (inches)	Flow (cfs)
12/12/14 3:18		155.4
12/12/14 3:19		155.4
12/12/14 3:20	16.853	156.5
12/12/14 3:21		156.5
12/12/14 3:22		156.5
12/12/14 3:23		156.5
12/12/14 3:24		156.5
12/12/14 3:25	16.822	155.8
12/12/14 3:26		155.8
12/12/14 3:27		155.8
12/12/14 3:28		155.8
12/12/14 3:29		155.8
12/12/14 3:30	16.83	156.0
12/12/14 3:31		156.0
12/12/14 3:32		156.0
12/12/14 3:33		156.0
12/12/14 3:34		156.0
12/12/14 3:35	16.933	158.1
12/12/14 3:36		158.1
12/12/14 3:37		158.1
12/12/14 3:38		158.1
12/12/14 3:39		158.1
12/12/14 3:40	17.371	167.1
12/12/14 3:41		167.1
12/12/14 3:42		167.1
12/12/14 3:43		167.1
12/12/14 3:44		167.1
12/12/14 3:45	17.658	173.0
12/12/14 3:46		173.0
12/12/14 3:47		173.0
12/12/14 3:48		173.0
12/12/14 3:49		173.0
12/12/14 3:50	17.897	177.9
12/12/14 3:51		253.9
12/12/14 3:52		329.9
12/12/14 3:53		405.9
12/12/14 3:54		481.9
12/12/14 3:55	21.718	558.0
12/12/14 3:56		595.0
12/12/14 3:57		632.0
12/12/14 3:58		669.0
12/12/14 3:59		706.0
12/12/14 4:00	23.558	745.0
12/12/14 4:01		750.5
12/12/14 4:02		756.0

Date and Time	Level (inches)	Flow (cfs)
12/12/14 4:03		761.5
12/12/14 4:04		767.0
12/12/14 4:05	23.828	772.5
12/12/14 4:06		777.7
12/12/14 4:07		782.9
12/12/14 4:08		788.1
12/12/14 4:09		793.3
12/12/14 4:10	23.574	746.6
12/12/14 4:11		734.7
12/12/14 4:12		722.8
12/12/14 4:13		710.9
12/12/14 4:14		699.0
12/12/14 4:15	22.984	686.7
12/12/14 4:16		671.7
12/12/14 4:17		656.7
12/12/14 4:18		641.7
12/12/14 4:19		626.7
12/12/14 4:20	22.244	611.5
12/12/14 4:21		603.0
12/12/14 4:22		594.5
12/12/14 4:23		586.0
12/12/14 4:24		577.5
12/12/14 4:25	21.822	568.6
12/12/14 4:26		558.0
12/12/14 4:27		547.4
12/12/14 4:28		536.8
12/12/14 4:29		526.2
12/12/14 4:30	21.296	515.1
12/12/14 4:31		508.1
12/12/14 4:32		501.1
12/12/14 4:33		494.1
12/12/14 4:34		487.1
12/12/14 4:35	20.948	479.7
12/12/14 4:36		474.7
12/12/14 4:37		469.7
12/12/14 4:38		464.7
12/12/14 4:39		459.7
12/12/14 4:40	20.699	454.4
12/12/14 4:41		450.7
12/12/14 4:42		447.0
12/12/14 4:43		443.3
12/12/14 4:44		439.6
12/12/14 4:45	20.516	435.8
12/12/14 4:46		433.4
12/12/14 4:47		431.0

Date and Time	Level (inches)	Flow (cfs)
12/12/14 4:48		428.6
12/12/14 4:49		426.2
12/12/14 4:50	20.397	423.7
12/12/14 4:51		422.4
12/12/14 4:52		421.1
12/12/14 4:53		419.8
12/12/14 4:54		418.5
12/12/14 4:55	20.333	417.2
12/12/14 4:56		418.1
12/12/14 4:57		419.0
12/12/14 4:58		419.9
12/12/14 4:59		420.8
12/12/14 5:00	20.381	422.0
12/12/14 5:01		424.9
12/12/14 5:02		427.8
12/12/14 5:03		430.7
12/12/14 5:04		433.6
12/12/14 5:05	20.524	436.6
12/12/14 5:06		442.6
12/12/14 5:07		448.6
12/12/14 5:08		454.6
12/12/14 5:09		460.6
12/12/14 5:10	20.819	466.6
12/12/14 5:11		520.1
12/12/14 5:12		573.6
12/12/14 5:13		627.1
12/12/14 5:14		680.6
12/12/14 5:15	23.454	734.5
12/12/14 5:16		1687.5
12/12/14 5:17		2640.5
12/12/14 5:18		3593.5
12/12/14 5:19		4546.5
12/12/14 5:20	43.161	5499.8
12/12/14 5:21		5845.8
12/12/14 5:22		6191.8
12/12/14 5:23		6537.8
12/12/14 5:24		6883.8
12/12/14 5:25	48.662	7231.8
12/12/14 5:26		7435.8
12/12/14 5:27		7639.8
12/12/14 5:28		7843.8
12/12/14 5:29		8047.8
12/12/14 5:30	51.585	8254.6
12/12/14 5:31		8769.6
12/12/14 5:32		9284.6

Date and Time	Level (inches)	Flow (cfs)
12/12/14 5:33		9799.6
12/12/14 5:34		10314.6
12/12/14 5:35	58.416	10829.6
12/12/14 5:36		11505.9
12/12/14 5:37		12182.2
12/12/14 5:38		12858.5
12/12/14 5:39		13534.8
12/12/14 5:40	66.697	14211.2
12/12/14 5:41		14713.8
12/12/14 5:42		15216.4
12/12/14 5:43		15719.0
12/12/14 5:44		16221.6
12/12/14 5:45	72.31	16724.7
12/12/14 5:46		16864.7
12/12/14 5:47		17004.7
12/12/14 5:48		17144.7
12/12/14 5:49		17284.7
12/12/14 5:50	73.807	17423.3
12/12/14 5:51		17550.3
12/12/14 5:52		17677.3
12/12/14 5:53		17804.3
12/12/14 5:54		17931.3
12/12/14 5:55	75.176	18062.4
12/12/14 5:56		17992.4
12/12/14 5:57		17922.4
12/12/14 5:58		17852.4
12/12/14 5:59		17782.4
12/12/14 6:00	74.42	17709.4
12/12/14 6:01		17589.4
12/12/14 6:02		17469.4
12/12/14 6:03		17349.4
12/12/14 6:04		17229.4
12/12/14 6:05	73.13	17107.4
12/12/14 6:06		16933.4
12/12/14 6:07		16759.4
12/12/14 6:08		16585.4
12/12/14 6:09		16411.4
12/12/14 6:10	71.235	16238.4
12/12/14 6:11		16086.4
12/12/14 6:12		15934.4
12/12/14 6:13		15782.4
12/12/14 6:14		15630.4
12/12/14 6:15	69.531	15477.3
12/12/14 6:16		15414.0
12/12/14 6:17		15350.7

Date and Time	Level (inches)	Flow (cfs)
12/12/14 6:18		15287.4
12/12/14 6:19		15224.1
12/12/14 6:20	68.823	15160.8
12/12/14 6:21		15129.6
12/12/14 6:22		15098.4
12/12/14 6:23		15067.2
12/12/14 6:24		15036.0
12/12/14 6:25	68.472	15004.3
12/12/14 6:26		15052.6
12/12/14 6:27		15100.9
12/12/14 6:28		15149.2
12/12/14 6:29		15197.5
12/12/14 6:30	69.014	15246.1
12/12/14 6:31		15511.1
12/12/14 6:32		15776.1
12/12/14 6:33		16041.1
12/12/14 6:34		16306.1
12/12/14 6:35	71.984	16572.7
12/12/14 6:36		16777.7
12/12/14 6:37		16982.7
12/12/14 6:38		17187.7
12/12/14 6:39		17392.7
12/12/14 6:40	74.189	17601.6
12/12/14 6:41		17744.6
12/12/14 6:42		17887.6
12/12/14 6:43		18030.6
12/12/14 6:44		18173.6
12/12/14 6:45	75.718	18315.0
12/12/14 6:46		18420.0
12/12/14 6:47		18525.0
12/12/14 6:48		18630.0
12/12/14 6:49		18735.0
12/12/14 6:50	76.841	18838.9
12/12/14 6:51		18878.9
12/12/14 6:52		18918.9
12/12/14 6:53		18958.9
12/12/14 6:54		18998.9
12/12/14 6:55	77.271	19039.6
12/12/14 6:56		19093.1
12/12/14 6:57		19146.6
12/12/14 6:58		19200.1
12/12/14 6:59		19253.6
12/12/14 7:00	77.844	19307.1
12/12/14 7:01		19307.1
12/12/14 7:02		19307.1

Date and Time	Level (inches)	Flow (cfs)
12/12/14 7:03		19307.1
12/12/14 7:04		19307.1
12/12/14 7:05	77.844	19307.1
12/12/14 7:06		19329.6
12/12/14 7:07		19352.1
12/12/14 7:08		19374.6
12/12/14 7:09		19397.1
12/12/14 7:10	78.083	19420.0
12/12/14 7:11		19455.4
12/12/14 7:12		19490.8
12/12/14 7:13		19526.2
12/12/14 7:14		19561.6
12/12/14 7:15	78.449	19597.0
12/12/14 7:16		19793.0
12/12/14 7:17		19989.0
12/12/14 7:18		20185.0
12/12/14 7:19		20381.0
12/12/14 7:20	80.479	20578.3
12/12/14 7:21		20723.3
12/12/14 7:22		20868.3
12/12/14 7:23		21013.3
12/12/14 7:24		21158.3
12/12/14 7:25	81.984	21305.7
12/12/14 7:26		21406.7
12/12/14 7:27		21507.7
12/12/14 7:28		21608.7
12/12/14 7:29		21709.7
12/12/14 7:30	83.027	21809.8
12/12/14 7:31		21905.3
12/12/14 7:32		22000.8
12/12/14 7:33		22096.3
12/12/14 7:34		22191.8
12/12/14 7:35	84.015	22287.6
12/12/14 7:36		22324.0
12/12/14 7:37		22360.4
12/12/14 7:38		22396.8
12/12/14 7:39		22433.2
12/12/14 7:40	84.365	22469.7
12/12/14 7:41		22364.7
12/12/14 7:42		22259.7
12/12/14 7:43		22154.7
12/12/14 7:44		22049.7
12/12/14 7:45	83.306	21944.5
12/12/14 7:46		22018.9
12/12/14 7:47		22093.3

Date and Time	Level (inches)	Flow (cfs)
12/12/14 7:48		22167.7
12/12/14 7:49		22242.1
12/12/14 7:50	84.07	22316.5
12/12/14 7:51		22287.5
12/12/14 7:52		22258.5
12/12/14 7:53		22229.5
12/12/14 7:54		22200.5
12/12/14 7:55	83.776	22171.6
12/12/14 7:56		22128.6
12/12/14 7:57		22085.6
12/12/14 7:58		22042.6
12/12/14 7:59		21999.6
12/12/14 8:00	83.33	21956.1
12/12/14 8:01		21866.9
12/12/14 8:02		21777.7
12/12/14 8:03		21688.5
12/12/14 8:04		21599.3
12/12/14 8:05	82.406	21509.6
12/12/14 8:06		21489.6
12/12/14 8:07		21469.6
12/12/14 8:08		21449.6
12/12/14 8:09		21429.6
12/12/14 8:10	82.199	21409.6
12/12/14 8:11		21408.1
12/12/14 8:12		21406.6
12/12/14 8:13		21405.1
12/12/14 8:14		21403.6
12/12/14 8:15	82.183	21401.9
12/12/14 8:16		21382.7
12/12/14 8:17		21363.5
12/12/14 8:18		21344.3
12/12/14 8:19		21325.1
12/12/14 8:20	81.984	21305.7
12/12/14 8:21		21263.4
12/12/14 8:22		21221.1
12/12/14 8:23		21178.8
12/12/14 8:24		21136.5
12/12/14 8:25	81.546	21094.0
12/12/14 8:26		21072.5
12/12/14 8:27		21051.0
12/12/14 8:28		21029.5
12/12/14 8:29		21008.0
12/12/14 8:30	81.323	20986.3
12/12/14 8:31		20968.6
12/12/14 8:32		20950.9

Date and Time	Level (inches)	Flow (cfs)
12/12/14 8:33		20933.2
12/12/14 8:34		20915.5
12/12/14 8:35	81.14	20897.7
12/12/14 8:36		20880.0
12/12/14 8:37		20862.3
12/12/14 8:38		20844.6
12/12/14 8:39		20826.9
12/12/14 8:40	80.957	20809.2
12/12/14 8:41		20843.8
12/12/14 8:42		20878.4
12/12/14 8:43		20913.0
12/12/14 8:44		20947.6
12/12/14 8:45	81.315	20982.4
12/12/14 8:46		20987.7
12/12/14 8:47		20993.0
12/12/14 8:48		20998.3
12/12/14 8:49		21003.6
12/12/14 8:50	81.371	21009.4
12/12/14 8:51		20942.4
12/12/14 8:52		20875.4
12/12/14 8:53		20808.4
12/12/14 8:54		20741.4
12/12/14 8:55	80.678	20674.5
12/12/14 8:56		20667.5
12/12/14 8:57		20660.5
12/12/14 8:58		20653.5
12/12/14 8:59		20646.5
12/12/14 9:00	80.607	20639.9
12/12/14 9:01		20522.9
12/12/14 9:02		20405.9
12/12/14 9:03		20288.9
12/12/14 9:04		20171.9
12/12/14 9:05	79.396	20054.9
12/12/14 9:06		20059.5
12/12/14 9:07		20064.1
12/12/14 9:08		20068.7
12/12/14 9:09		20073.3
12/12/14 9:10	79.444	20078.0
12/12/14 9:11		20063.4
12/12/14 9:12		20048.8
12/12/14 9:13		20034.2
12/12/14 9:14		20019.6
12/12/14 9:15	79.293	20004.9
12/12/14 9:16		19901.9
12/12/14 9:17		19798.9

Date and Time	Level (inches)	Flow (cfs)
12/12/14 9:18		19695.9
12/12/14 9:19		19592.9
12/12/14 9:20	78.226	19489.2
12/12/14 9:21		19461.7
12/12/14 9:22		19434.2
12/12/14 9:23		19406.7
12/12/14 9:24		19379.2
12/12/14 9:25	77.939	19351.7
12/12/14 9:26		19343.6
12/12/14 9:27		19335.5
12/12/14 9:28		19327.4
12/12/14 9:29		19319.3
12/12/14 9:30	77.852	19310.8
12/12/14 9:31		19290.0
12/12/14 9:32		19269.2
12/12/14 9:33		19248.4
12/12/14 9:34		19227.6
12/12/14 9:35	77.629	19206.8
12/12/14 9:36		19074.8
12/12/14 9:37		18942.8
12/12/14 9:38		18810.8
12/12/14 9:39		18678.8
12/12/14 9:40	76.212	18545.4
12/12/14 9:41		18514.2
12/12/14 9:42		18483.0
12/12/14 9:43		18451.8
12/12/14 9:44		18420.6
12/12/14 9:45	75.877	18389.3
12/12/14 9:46		18161.3
12/12/14 9:47		17933.3
12/12/14 9:48		17705.3
12/12/14 9:49		17477.3
12/12/14 9:50	73.433	17248.6
12/12/14 9:51		17326.6
12/12/14 9:52		17404.6
12/12/14 9:53		17482.6
12/12/14 9:54		17560.6
12/12/14 9:55	74.269	17638.8
12/12/14 9:56		17790.8
12/12/14 9:57		17942.8
12/12/14 9:58		18094.8
12/12/14 9:59		18246.8
12/12/14 10:00	75.901	18400.5
12/12/14 10:01		18391.5
12/12/14 10:02		18382.5

Date and Time	Level (inches)	Flow (cfs)
12/12/14 10:03		18373.5
12/12/14 10:04		18364.5
12/12/14 10:05	75.805	18355.9
12/12/14 10:06		18491.9
12/12/14 10:07		18627.9
12/12/14 10:08		18763.9
12/12/14 10:09		18899.9
12/12/14 10:10	77.263	19035.9
12/12/14 10:11		19075.2
12/12/14 10:12		19114.5
12/12/14 10:13		19153.8
12/12/14 10:14		19193.1
12/12/14 10:15	77.685	19232.8
12/12/14 10:16		19277.1
12/12/14 10:17		19321.4
12/12/14 10:18		19365.7
12/12/14 10:19		19410.0
12/12/14 10:20	78.154	19454.6
12/12/14 10:21		19514.6
12/12/14 10:22		19574.6
12/12/14 10:23		19634.6
12/12/14 10:24		19694.6
12/12/14 10:25	78.775	19754.8
12/12/14 10:26		19742.5
12/12/14 10:27		19730.2
12/12/14 10:28		19717.9
12/12/14 10:29		19705.6
12/12/14 10:30	78.648	19693.2
12/12/14 10:31		19814.2
12/12/14 10:32		19935.2
12/12/14 10:33		20056.2
12/12/14 10:34		20177.2
12/12/14 10:35	79.898	20297.4
12/12/14 10:36		20298.2
12/12/14 10:37		20298.9
12/12/14 10:38		20299.7
12/12/14 10:39		20300.5
12/12/14 10:40	79.906	20301.2
12/12/14 10:41		20388.2
12/12/14 10:42		20475.2
12/12/14 10:43		20562.2
12/12/14 10:44		20649.2
12/12/14 10:45	80.806	20736.1
12/12/14 10:46		20865.1
12/12/14 10:47		20994.1

Date and Time	Level (inches)	Flow (cfs)
12/12/14 10:48		21123.1
12/12/14 10:49		21252.1
12/12/14 10:50	82.143	21382.6
12/12/14 10:51		21577.6
12/12/14 10:52		21772.6
12/12/14 10:53		21967.6
12/12/14 10:54		22162.6
12/12/14 10:55	84.15	22357.9
12/12/14 10:56		22548.9
12/12/14 10:57		22739.9
12/12/14 10:58		22930.9
12/12/14 10:59		23121.9
12/12/14 11:00	85.989	23314.4
12/12/14 11:01		23427.4
12/12/14 11:02		23540.4
12/12/14 11:03		23653.4
12/12/14 11:04		23766.4
12/12/14 11:05	87.08	23881.6
12/12/14 11:06		23969.6
12/12/14 11:07		24057.6
12/12/14 11:08		24145.6
12/12/14 11:09		24233.6
12/12/14 11:10	87.924	24320.5
12/12/14 11:11		24299.0
12/12/14 11:12		24277.5
12/12/14 11:13		24256.0
12/12/14 11:14		24234.5
12/12/14 11:15	87.717	24212.8
12/12/14 11:16		24227.7
12/12/14 11:17		24242.6
12/12/14 11:18		24257.5
12/12/14 11:19		24272.4
12/12/14 11:20	87.86	24287.3
12/12/14 11:21		24286.5
12/12/14 11:22		24285.7
12/12/14 11:23		24284.9
12/12/14 11:24		24284.1
12/12/14 11:25	87.852	24283.2
12/12/14 11:26		24173.2
12/12/14 11:27		24063.2
12/12/14 11:28		23953.2
12/12/14 11:29		23843.2
12/12/14 11:30	86.793	23732.5
12/12/14 11:31		23689.5
12/12/14 11:32		23646.5

Date and Time	Level (inches)	Flow (cfs)
12/12/14 11:33		23603.5
12/12/14 11:34		23560.5
12/12/14 11:35	86.379	23517.2
12/12/14 11:36		23460.2
12/12/14 11:37		23403.2
12/12/14 11:38		23346.2
12/12/14 11:39		23289.2
12/12/14 11:40	85.83	23231.5
12/12/14 11:41		23135.5
12/12/14 11:42		23039.5
12/12/14 11:43		22943.5
12/12/14 11:44		22847.5
12/12/14 11:45	84.906	22751.3
12/12/14 11:46		22600.8
12/12/14 11:47		22450.3
12/12/14 11:48		22299.8
12/12/14 11:49		22149.3
12/12/14 11:50	83.417	21998.4
12/12/14 11:51		21930.7
12/12/14 11:52		21863.0
12/12/14 11:53		21795.3
12/12/14 11:54		21727.6
12/12/14 11:55	82.717	21659.7
12/12/14 11:56		21571.2
12/12/14 11:57		21482.7
12/12/14 11:58		21394.2
12/12/14 11:59		21305.7
12/12/14 12:00	81.801	21217.2
12/12/14 12:01		21177.2
12/12/14 12:02		21137.2
12/12/14 12:03		21097.2
12/12/14 12:04		21057.2
12/12/14 12:05	81.387	21017.0
12/12/14 12:06		20971.0
12/12/14 12:07		20925.0
12/12/14 12:08		20879.0
12/12/14 12:09		20833.0
12/12/14 12:10	80.909	20786.1
12/12/14 12:11		20703.8
12/12/14 12:12		20621.5
12/12/14 12:13		20539.2
12/12/14 12:14		20456.9
12/12/14 12:15	80.057	20374.4
12/12/14 12:16		20362.1
12/12/14 12:17		20349.8

Date and Time	Level (inches)	Flow (cfs)
12/12/14 12:18		20337.5
12/12/14 12:19		20325.2
12/12/14 12:20	79.93	20312.8
12/12/14 12:21		20208.8
12/12/14 12:22		20104.8
12/12/14 12:23		20000.8
12/12/14 12:24		19896.8
12/12/14 12:25	78.855	19793.3
12/12/14 12:26		19678.3
12/12/14 12:27		19563.3
12/12/14 12:28		19448.3
12/12/14 12:29		19333.3
12/12/14 12:30	77.653	19217.9
12/12/14 12:31		19184.5
12/12/14 12:32		19151.1
12/12/14 12:33		19117.7
12/12/14 12:34		19084.3
12/12/14 12:35	77.294	19050.7
12/12/14 12:36		18949.7
12/12/14 12:37		18848.7
12/12/14 12:38		18747.7
12/12/14 12:39		18646.7
12/12/14 12:40	76.212	18545.4
12/12/14 12:41		18425.4
12/12/14 12:42		18305.4
12/12/14 12:43		18185.4
12/12/14 12:44		18065.4
12/12/14 12:45	74.922	17943.5
12/12/14 12:46		17888.5
12/12/14 12:47		17833.5
12/12/14 12:48		17778.5
12/12/14 12:49		17723.5
12/12/14 12:50	74.332	17668.5
12/12/14 12:51		17577.1
12/12/14 12:52		17485.7
12/12/14 12:53		17394.3
12/12/14 12:54		17302.9
12/12/14 12:55	73.353	17211.5
12/12/14 12:56		17151.3
12/12/14 12:57		17091.1
12/12/14 12:58		17030.9
12/12/14 12:59		16970.7
12/12/14 13:00	72.708	16910.5
12/12/14 13:01		16857.0
12/12/14 13:02		16803.5

Date and Time	Level (inches)	Flow (cfs)
12/12/14 13:03		16750.0
12/12/14 13:04		16696.5
12/12/14 13:05	72.135	16643.0
12/12/14 13:06		16570.0
12/12/14 13:07		16497.0
12/12/14 13:08		16424.0
12/12/14 13:09		16351.0
12/12/14 13:10	71.323	16277.5
12/12/14 13:11		16192.5
12/12/14 13:12		16107.5
12/12/14 13:13		16022.5
12/12/14 13:14		15937.5
12/12/14 13:15	70.367	15850.7
12/12/14 13:16		15790.7
12/12/14 13:17		15730.7
12/12/14 13:18		15670.7
12/12/14 13:19		15610.7
12/12/14 13:20	69.691	15548.4
12/12/14 13:21		15471.4
12/12/14 13:22		15394.4
12/12/14 13:23		15317.4
12/12/14 13:24		15240.4
12/12/14 13:25	68.831	15164.3
12/12/14 13:26		15142.3
12/12/14 13:27		15120.3
12/12/14 13:28		15098.3
12/12/14 13:29		15076.3
12/12/14 13:30	68.584	15054.1
12/12/14 13:31		15006.1
12/12/14 13:32		14958.1
12/12/14 13:33		14910.1
12/12/14 13:34		14862.1
12/12/14 13:35	68.042	14812.3
12/12/14 13:36		14746.3
12/12/14 13:37		14680.3
12/12/14 13:38		14614.3
12/12/14 13:39		14548.3
12/12/14 13:40	67.302	14481.5
12/12/14 13:41		14377.5
12/12/14 13:42		14273.5
12/12/14 13:43		14169.5
12/12/14 13:44		14065.5
12/12/14 13:45	66.139	13962.3
12/12/14 13:46		13932.0
12/12/14 13:47		13901.7

Date and Time	Level (inches)	Flow (cfs)
12/12/14 13:48		13871.4
12/12/14 13:49		13841.1
12/12/14 13:50	65.781	13810.6
12/12/14 13:51		13721.5
12/12/14 13:52		13632.4
12/12/14 13:53		13543.3
12/12/14 13:54		13454.2
12/12/14 13:55	64.69	13365.2
12/12/14 13:56		13300.2
12/12/14 13:57		13235.2
12/12/14 13:58		13170.2
12/12/14 13:59		13105.2
12/12/14 14:00	63.894	13040.1
12/12/14 14:01		12980.3
12/12/14 14:02		12920.5
12/12/14 14:03		12860.7
12/12/14 14:04		12800.9
12/12/14 14:05	63.162	12741.0
12/12/14 14:06		12666.9
12/12/14 14:07		12592.8
12/12/14 14:08		12518.7
12/12/14 14:09		12444.6
12/12/14 14:10	62.254	12370.3
12/12/14 14:11		12267.6
12/12/14 14:12		12164.9
12/12/14 14:13		12062.2
12/12/14 14:14		11959.5
12/12/14 14:15	60.996	11856.6
12/12/14 14:16		11747.3
12/12/14 14:17		11638.0
12/12/14 14:18		11528.7
12/12/14 14:19		11419.4
12/12/14 14:20	59.642	11309.9
12/12/14 14:21		11236.3
12/12/14 14:22		11162.7
12/12/14 14:23		11089.1
12/12/14 14:24		11015.5
12/12/14 14:25	58.703	10941.9
12/12/14 14:26		10860.8
12/12/14 14:27		10779.7
12/12/14 14:28		10698.6
12/12/14 14:29		10617.5
12/12/14 14:30	57.668	10536.5
12/12/14 14:31		10457.3
12/12/14 14:32		10378.1

Date and Time	Level (inches)	Flow (cfs)
12/12/14 14:33		10298.9
12/12/14 14:34		10219.7
12/12/14 14:35	56.656	10140.4
12/12/14 14:36		10069.3
12/12/14 14:37		9998.2
12/12/14 14:38		9927.1
12/12/14 14:39		9856.0
12/12/14 14:40	55.749	9784.9
12/12/14 14:41		9709.4
12/12/14 14:42		9633.9
12/12/14 14:43		9558.4
12/12/14 14:44		9482.9
12/12/14 14:45	54.785	9407.6
12/12/14 14:46		9338.6
12/12/14 14:47		9269.6
12/12/14 14:48		9200.6
12/12/14 14:49		9131.6
12/12/14 14:50	53.894	9062.7
12/12/14 14:51		9020.3
12/12/14 14:52		8977.9
12/12/14 14:53		8935.5
12/12/14 14:54		8893.1
12/12/14 14:55	53.288	8851.0
12/12/14 14:56		8790.8
12/12/14 14:57		8730.6
12/12/14 14:58		8670.4
12/12/14 14:59		8610.2
12/12/14 15:00	52.429	8550.0
12/12/14 15:01		8506.5
12/12/14 15:02		8463.0
12/12/14 15:03		8419.5
12/12/14 15:04		8376.0
12/12/14 15:05	51.807	8332.6
12/12/14 15:06		8283.6
12/12/14 15:07		8234.6
12/12/14 15:08		8185.6
12/12/14 15:09		8136.6
12/12/14 15:10	51.107	8087.4
12/12/14 15:11		8030.5
12/12/14 15:12		7973.6
12/12/14 15:13		7916.7
12/12/14 15:14		7859.8
12/12/14 15:15	50.295	7803.1
12/12/14 15:16		7745.7
12/12/14 15:17		7688.3

Date and Time	Level (inches)	Flow (cfs)
12/12/14 15:18		7630.9
12/12/14 15:19		7573.5
12/12/14 15:20	49.475	7516.1
12/12/14 15:21		7467.1
12/12/14 15:22		7418.1
12/12/14 15:23		7369.1
12/12/14 15:24		7320.1
12/12/14 15:25	48.774	7270.9
12/12/14 15:26		7223.5
12/12/14 15:27		7176.1
12/12/14 15:28		7128.7
12/12/14 15:29		7081.3
12/12/14 15:30	48.097	7034.0
12/12/14 15:31		6990.8
12/12/14 15:32		6947.6
12/12/14 15:33		6904.4
12/12/14 15:34		6861.2
12/12/14 15:35	47.412	6817.8
12/12/14 15:36		6774.9
12/12/14 15:37		6732.0
12/12/14 15:38		6689.1
12/12/14 15:39		6646.2
12/12/14 15:40	46.72	6603.1
12/12/14 15:41		6567.1
12/12/14 15:42		6531.1
12/12/14 15:43		6495.1
12/12/14 15:44		6459.1
12/12/14 15:45	46.138	6422.9
12/12/14 15:46		6386.4
12/12/14 15:47		6349.9
12/12/14 15:48		6313.4
12/12/14 15:49		6276.9
12/12/14 15:50	45.549	6240.2
12/12/14 15:51		6194.3
12/12/14 15:52		6148.4
12/12/14 15:53		6102.5
12/12/14 15:54		6056.6
12/12/14 15:55	44.809	6010.7
12/12/14 15:56		5978.1
12/12/14 15:57		5945.5
12/12/14 15:58		5912.9
12/12/14 15:59		5880.3
12/12/14 16:00	44.283	5847.8
12/12/14 16:01		5814.2
12/12/14 16:02		5780.6

Date and Time	Level (inches)	Flow (cfs)
12/12/14 16:03		5747.0
12/12/14 16:04		5713.4
12/12/14 16:05	43.742	5680.0
12/12/14 16:06		5656.3
12/12/14 16:07		5632.6
12/12/14 16:08		5608.9
12/12/14 16:09		5585.2
12/12/14 16:10	43.36	5561.5
12/12/14 16:11		5532.4
12/12/14 16:12		5503.3
12/12/14 16:13		5474.2
12/12/14 16:14		5445.1
12/12/14 16:15	42.89	5415.8
12/12/14 16:16		5385.2
12/12/14 16:17		5354.6
12/12/14 16:18		5324.0
12/12/14 16:19		5293.4
12/12/14 16:20	42.396	5262.8
12/12/14 16:21		5231.8
12/12/14 16:22		5200.8
12/12/14 16:23		5169.8
12/12/14 16:24		5138.8
12/12/14 16:25	41.887	5107.7
12/12/14 16:26		5081.8
12/12/14 16:27		5055.9
12/12/14 16:28		5030.0
12/12/14 16:29		5004.1
12/12/14 16:30	41.433	4978.3
12/12/14 16:31		4957.9
12/12/14 16:32		4937.5
12/12/14 16:33		4917.1
12/12/14 16:34		4896.7
12/12/14 16:35	41.074	4876.2
12/12/14 16:36		4856.2
12/12/14 16:37		4836.2
12/12/14 16:38		4816.2
12/12/14 16:39		4796.2
12/12/14 16:40	40.724	4776.4
12/12/14 16:41		4762.3
12/12/14 16:42		4748.2
12/12/14 16:43		4734.1
12/12/14 16:44		4720.0
12/12/14 16:45	40.477	4706.0
12/12/14 16:46		4694.2
12/12/14 16:47		4682.4

Date and Time	Level (inches)	Flow (cfs)
12/12/14 16:48		4670.6
12/12/14 16:49		4658.8
12/12/14 16:50	40.27	4647.0
12/12/14 16:51		4621.6
12/12/14 16:52		4596.2
12/12/14 16:53		4570.8
12/12/14 16:54		4545.4
12/12/14 16:55	39.824	4519.9
12/12/14 16:56		4489.5
12/12/14 16:57		4459.1
12/12/14 16:58		4428.7
12/12/14 16:59		4398.3
12/12/14 17:00	39.291	4367.9
12/12/14 17:01		4340.7
12/12/14 17:02		4313.5
12/12/14 17:03		4286.3
12/12/14 17:04		4259.1
12/12/14 17:05	38.813	4231.8
12/12/14 17:06		4210.9
12/12/14 17:07		4190.0
12/12/14 17:08		4169.1
12/12/14 17:09		4148.2
12/12/14 17:10	38.447	4127.4
12/12/14 17:11		4112.4
12/12/14 17:12		4097.4
12/12/14 17:13		4082.4
12/12/14 17:14		4067.4
12/12/14 17:15	38.184	4052.5
12/12/14 17:16		4039.3
12/12/14 17:17		4026.1
12/12/14 17:18		4012.9
12/12/14 17:19		3999.7
12/12/14 17:20	37.953	3986.7
12/12/14 17:21		3970.8
12/12/14 17:22		3954.9
12/12/14 17:23		3939.0
12/12/14 17:24		3923.1
12/12/14 17:25	37.675	3907.3
12/12/14 17:26		3887.8
12/12/14 17:27		3868.3
12/12/14 17:28		3848.8
12/12/14 17:29		3829.3
12/12/14 17:30	37.332	3809.7
12/12/14 17:31		3792.5
12/12/14 17:32		3775.3

Date and Time	Level (inches)	Flow (cfs)
12/12/14 17:33		3758.1
12/12/14 17:34		3740.9
12/12/14 17:35	37.03	3723.5
12/12/14 17:36		3702.2
12/12/14 17:37		3680.9
12/12/14 17:38		3659.6
12/12/14 17:39		3638.3
12/12/14 17:40	36.655	3616.8
12/12/14 17:41		3603.6
12/12/14 17:42		3590.4
12/12/14 17:43		3577.2
12/12/14 17:44		3564.0
12/12/14 17:45	36.425	3551.0
12/12/14 17:46		3537.8
12/12/14 17:47		3524.6
12/12/14 17:48		3511.4
12/12/14 17:49		3498.2
12/12/14 17:50	36.194	3485.2
12/12/14 17:51		3469.9
12/12/14 17:52		3454.6
12/12/14 17:53		3439.3
12/12/14 17:54		3424.0
12/12/14 17:55	35.915	3408.9
12/12/14 17:56		3398.6
12/12/14 17:57		3388.3
12/12/14 17:58		3378.0
12/12/14 17:59		3367.7
12/12/14 18:00	35.708	3357.5
12/12/14 18:01		3346.4
12/12/14 18:02		3335.3
12/12/14 18:03		3324.2
12/12/14 18:04		3313.1
12/12/14 18:05	35.485	3302.1
12/12/14 18:06		3291.4
12/12/14 18:07		3280.7
12/12/14 18:08		3270.0
12/12/14 18:09		3259.3
12/12/14 18:10	35.27	3248.7
12/12/14 18:11		3239.2
12/12/14 18:12		3229.7
12/12/14 18:13		3220.2
12/12/14 18:14		3210.7
12/12/14 18:15	35.079	3201.3
12/12/14 18:16		3195.0
12/12/14 18:17		3188.7

Date and Time	Level (inches)	Flow (cfs)
12/12/14 18:18		3182.4
12/12/14 18:19		3176.1
12/12/14 18:20	34.952	3169.6
12/12/14 18:21		3159.3
12/12/14 18:22		3149.0
12/12/14 18:23		3138.7
12/12/14 18:24		3128.4
12/12/14 18:25	34.745	3118.2
12/12/14 18:26		3110.7
12/12/14 18:27		3103.2
12/12/14 18:28		3095.7
12/12/14 18:29		3088.2
12/12/14 18:30	34.593	3080.7
12/12/14 18:31		3071.6
12/12/14 18:32		3062.5
12/12/14 18:33		3053.4
12/12/14 18:34		3044.3
12/12/14 18:35	34.41	3035.2
12/12/14 18:36		3032.0
12/12/14 18:37		3028.8
12/12/14 18:38		3025.6
12/12/14 18:39		3022.4
12/12/14 18:40	34.346	3019.4
12/12/14 18:41		3016.2
12/12/14 18:42		3013.0
12/12/14 18:43		3009.8
12/12/14 18:44		3006.6
12/12/14 18:45	34.283	3003.5
12/12/14 18:46		2990.1
12/12/14 18:47		2976.7
12/12/14 18:48		2963.3
12/12/14 18:49		2949.9
12/12/14 18:50	34.012	2936.3
12/12/14 18:51		2929.6
12/12/14 18:52		2922.9
12/12/14 18:53		2916.2
12/12/14 18:54		2909.5
12/12/14 18:55	33.877	2902.7
12/12/14 18:56		2894.8
12/12/14 18:57		2886.9
12/12/14 18:58		2879.0
12/12/14 18:59		2871.1
12/12/14 19:00	33.717	2863.1
12/12/14 19:01		2854.0
12/12/14 19:02		2844.9

Date and Time	Level (inches)	Flow (cfs)
12/12/14 19:03		2835.8
12/12/14 19:04		2826.7
12/12/14 19:05	33.534	2817.7
12/12/14 19:06		2817.7
12/12/14 19:07		2817.7
12/12/14 19:08		2817.7
12/12/14 19:09		2817.7
12/12/14 19:10	33.534	2817.7
12/12/14 19:11		2811.8
12/12/14 19:12		2805.9
12/12/14 19:13		2800.0
12/12/14 19:14		2794.1
12/12/14 19:15	33.415	2788.0
12/12/14 19:16		2778.5
12/12/14 19:17		2769.0
12/12/14 19:18		2759.5
12/12/14 19:19		2750.0
12/12/14 19:20	33.224	2740.6
12/12/14 19:21		2737.0
12/12/14 19:22		2733.4
12/12/14 19:23		2729.8
12/12/14 19:24		2726.2
12/12/14 19:25	33.152	2722.8
12/12/14 19:26		2715.7
12/12/14 19:27		2708.6
12/12/14 19:28		2701.5
12/12/14 19:29		2694.4
12/12/14 19:30	33.009	2687.2
12/12/14 19:31		2676.1
12/12/14 19:32		2665.0
12/12/14 19:33		2653.9
12/12/14 19:34		2642.8
12/12/14 19:35	32.786	2631.8
12/12/14 19:36		2630.2
12/12/14 19:37		2628.6
12/12/14 19:38		2627.0
12/12/14 19:39		2625.4
12/12/14 19:40	32.754	2623.9
12/12/14 19:41		2618.4
12/12/14 19:42		2612.9
12/12/14 19:43		2607.4
12/12/14 19:44		2601.9
12/12/14 19:45	32.642	2596.2
12/12/14 19:46		2589.5
12/12/14 19:47		2582.8

Date and Time	Level (inches)	Flow (cfs)
12/12/14 19:48		2576.1
12/12/14 19:49		2569.4
12/12/14 19:50	32.507	2562.6
12/12/14 19:51		2559.0
12/12/14 19:52		2555.4
12/12/14 19:53		2551.8
12/12/14 19:54		2548.2
12/12/14 19:55	32.435	2544.8
12/12/14 19:56		2538.1
12/12/14 19:57		2531.4
12/12/14 19:58		2524.7
12/12/14 19:59		2518.0
12/12/14 20:00	32.3	2511.2
12/12/14 20:01		2502.9
12/12/14 20:02		2494.6
12/12/14 20:03		2486.3
12/12/14 20:04		2478.0
12/12/14 20:05	32.133	2469.7
12/12/14 20:06		2470.5
12/12/14 20:07		2471.3
12/12/14 20:08		2472.1
12/12/14 20:09		2472.9
12/12/14 20:10	32.149	2473.6
12/12/14 20:11		2471.6
12/12/14 20:12		2469.6
12/12/14 20:13		2467.6
12/12/14 20:14		2465.6
12/12/14 20:15	32.109	2463.7
12/12/14 20:16		2456.6
12/12/14 20:17		2449.5
12/12/14 20:18		2442.4
12/12/14 20:19		2435.3
12/12/14 20:20	31.966	2428.1
12/12/14 20:21		2427.7
12/12/14 20:22		2427.3
12/12/14 20:23		2426.9
12/12/14 20:24		2426.5
12/12/14 20:25	31.958	2426.2
12/12/14 20:26		2428.6
12/12/14 20:27		2431.0
12/12/14 20:28		2433.4
12/12/14 20:29		2435.8
12/12/14 20:30	32.006	2438.0
12/12/14 20:31		2415.0
12/12/14 20:32		2392.0

Date and Time	Level (inches)	Flow (cfs)
12/12/14 20:33		2369.0
12/12/14 20:34		2346.0
12/12/14 20:35	31.966	2428.1
12/12/14 20:36		2430.9
12/12/14 20:37		2433.7
12/12/14 20:38		2436.5
12/12/14 20:39		2439.3
12/12/14 20:40	32.021	2442.0
12/12/14 20:41		2444.0
12/12/14 20:42		2446.0
12/12/14 20:43		2448.0
12/12/14 20:44		2450.0
12/12/14 20:45	32.061	2451.9
12/12/14 20:46		2446.8
12/12/14 20:47		2441.7
12/12/14 20:48		2436.6
12/12/14 20:49		2431.5
12/12/14 20:50	31.958	2426.2
12/12/14 20:51		2424.2
12/12/14 20:52		2422.2
12/12/14 20:53		2420.2
12/12/14 20:54		2418.2
12/12/14 20:55	31.918	2416.3
12/12/14 20:56		2413.9
12/12/14 20:57		2411.5
12/12/14 20:58		2409.1
12/12/14 20:59		2406.7
12/12/14 21:00	31.87	2404.4
12/12/14 21:01		2395.7
12/12/14 21:02		2387.0
12/12/14 21:03		2378.3
12/12/14 21:04		2369.6
12/12/14 21:05	31.695	2360.9
12/12/14 21:06		2357.3
12/12/14 21:07		2353.7
12/12/14 21:08		2350.1
12/12/14 21:09		2346.5
12/12/14 21:10	31.623	2343.1
12/12/14 21:11		2337.2
12/12/14 21:12		2331.3
12/12/14 21:13		2325.4
12/12/14 21:14		2319.5
12/12/14 21:15	31.504	2313.5
12/12/14 21:16		2306.4
12/12/14 21:17		2299.3

Date and Time	Level (inches)	Flow (cfs)
12/12/14 21:18		2292.2
12/12/14 21:19		2285.1
12/12/14 21:20	31.361	2277.9
12/12/14 21:21		2274.3
12/12/14 21:22		2270.7
12/12/14 21:23		2267.1
12/12/14 21:24		2263.5
12/12/14 21:25	31.289	2260.1
12/12/14 21:26		2255.0
12/12/14 21:27		2249.9
12/12/14 21:28		2244.8
12/12/14 21:29		2239.7
12/12/14 21:30	31.185	2234.4
12/12/14 21:31		2230.4
12/12/14 21:32		2226.4
12/12/14 21:33		2222.4
12/12/14 21:34		2218.4
12/12/14 21:35	31.106	2214.6
12/12/14 21:36		2211.8
12/12/14 21:37		2209.0
12/12/14 21:38		2206.2
12/12/14 21:39		2203.4
12/12/14 21:40	31.05	2200.8
12/12/14 21:41		2195.3
12/12/14 21:42		2189.8
12/12/14 21:43		2184.3
12/12/14 21:44		2178.8
12/12/14 21:45	30.939	2173.1
12/12/14 21:46		2166.4
12/12/14 21:47		2159.7
12/12/14 21:48		2153.0
12/12/14 21:49		2146.3
12/12/14 21:50	30.803	2139.5
12/12/14 21:51		2132.4
12/12/14 21:52		2125.3
12/12/14 21:53		2118.2
12/12/14 21:54		2111.1
12/12/14 21:55	30.66	2103.9
12/12/14 21:56		2099.5
12/12/14 21:57		2095.1
12/12/14 21:58		2090.7
12/12/14 21:59		2086.3
12/12/14 22:00	30.572	2082.1
12/12/14 22:01		2075.8
12/12/14 22:02		2069.5

Date and Time	Level (inches)	Flow (cfs)
12/12/14 22:03		2063.2
12/12/14 22:04		2056.9
12/12/14 22:05	30.445	2050.5
12/12/14 22:06		2044.2
12/12/14 22:07		2037.9
12/12/14 22:08		2031.6
12/12/14 22:09		2025.3
12/12/14 22:10	30.318	2018.9
12/12/14 22:11		2013.8
12/12/14 22:12		2008.7
12/12/14 22:13		2003.6
12/12/14 22:14		1998.5
12/12/14 22:15	30.214	1993.1
12/12/14 22:16		1983.6
12/12/14 22:17		1974.1
12/12/14 22:18		1964.6
12/12/14 22:19		1955.1
12/12/14 22:20	30.023	1945.7
12/12/14 22:21		1940.6
12/12/14 22:22		1935.5
12/12/14 22:23		1930.4
12/12/14 22:24		1925.3
12/12/14 22:25	29.896	1920.0
12/12/14 22:26		1915.7
12/12/14 22:27		1911.4
12/12/14 22:28		1907.1
12/12/14 22:29		1902.8
12/12/14 22:30	29.784	1898.6
12/12/14 22:31		1894.3
12/12/14 22:32		1890.0
12/12/14 22:33		1885.7
12/12/14 22:34		1881.4
12/12/14 22:35	29.673	1877.2
12/12/14 22:36		1875.1
12/12/14 22:37		1873.0
12/12/14 22:38		1870.9
12/12/14 22:39		1868.8
12/12/14 22:40	29.617	1866.6
12/12/14 22:41		1835.6
12/12/14 22:42		1804.6
12/12/14 22:43		1773.6
12/12/14 22:44		1742.6
12/12/14 22:45	29.537	1851.3
12/12/14 22:46		1846.7
12/12/14 22:47		1842.1

Date and Time	Level (inches)	Flow (cfs)
12/12/14 22:48		1837.5
12/12/14 22:49		1832.9
12/12/14 22:50	29.418	1828.4
12/12/14 22:51		1823.8
12/12/14 22:52		1819.2
12/12/14 22:53		1814.6
12/12/14 22:54		1810.0
12/12/14 22:55	29.298	1805.5
12/12/14 22:56		1801.5
12/12/14 22:57		1797.5
12/12/14 22:58		1793.5
12/12/14 22:59		1789.5
12/12/14 23:00	29.195	1785.7
12/12/14 23:01		1782.0
12/12/14 23:02		1778.3
12/12/14 23:03		1774.6
12/12/14 23:04		1770.9
12/12/14 23:05	29.099	1767.4
12/12/14 23:06		1762.8
12/12/14 23:07		1758.2
12/12/14 23:08		1753.6
12/12/14 23:09		1749.0
12/12/14 23:10	28.98	1744.5
12/12/14 23:11		1740.8
12/12/14 23:12		1737.1
12/12/14 23:13		1733.4
12/12/14 23:14		1729.7
12/12/14 23:15	28.884	1726.2
12/12/14 23:16		1720.7
12/12/14 23:17		1715.2
12/12/14 23:18		1709.7
12/12/14 23:19		1704.2
12/12/14 23:20	28.741	1698.7
12/12/14 23:21		1695.6
12/12/14 23:22		1692.5
12/12/14 23:23		1689.4
12/12/14 23:24		1686.3
12/12/14 23:25	28.661	1683.4
12/12/14 23:26		1679.4
12/12/14 23:27		1675.4
12/12/14 23:28		1671.4
12/12/14 23:29		1667.4
12/12/14 23:30	28.558	1663.6
12/12/14 23:31		1658.7
12/12/14 23:32		1653.8

Date and Time	Level (inches)	Flow (cfs)
12/12/14 23:33		1648.9
12/12/14 23:34		1644.0
12/12/14 23:35	28.43	1639.2
12/12/14 23:36		1635.8
12/12/14 23:37		1632.4
12/12/14 23:38		1629.0
12/12/14 23:39		1625.6
12/12/14 23:40	28.343	1622.4
12/12/14 23:41		1618.1
12/12/14 23:42		1613.8
12/12/14 23:43		1609.5
12/12/14 23:44		1605.2
12/12/14 23:45	28.231	1601.0
12/12/14 23:46		1598.9
12/12/14 23:47		1596.8
12/12/14 23:48		1594.7
12/12/14 23:49		1592.6
12/12/14 23:50	28.176	1590.3
12/12/14 23:51		1589.1
12/12/14 23:52		1587.9
12/12/14 23:53		1586.7
12/12/14 23:54		1585.5
12/12/14 23:55	28.144	1584.2
12/12/14 23:56		1580.5
12/12/14 23:57		1576.8
12/12/14 23:58		1573.1
12/12/14 23:59		1569.4
12/13/14 0:00	28.048	1565.9
12/13/14 0:01		1563.8
12/13/14 0:02		1561.7
12/13/14 0:03		1559.6
12/13/14 0:04		1557.5
12/13/14 0:05	27.993	1555.2
12/13/14 0:06		1550.3
12/13/14 0:07		1545.4
12/13/14 0:08		1540.5
12/13/14 0:09		1535.6
12/13/14 0:10	27.865	1530.8
12/13/14 0:11		1526.8
12/13/14 0:12		1522.8
12/13/14 0:13		1518.8
12/13/14 0:14		1514.8
12/13/14 0:15	27.762	1511.0
12/13/14 0:16		1507.6
12/13/14 0:17		1504.2

Date and Time	Level (inches)	Flow (cfs)
12/13/14 0:18		1500.8
12/13/14 0:19		1497.4
12/13/14 0:20	27.674	1494.2
12/13/14 0:21		1491.8
12/13/14 0:22		1489.4
12/13/14 0:23		1487.0
12/13/14 0:24		1484.6
12/13/14 0:25	27.61	1482.0
12/13/14 0:26		1478.9
12/13/14 0:27		1475.8
12/13/14 0:28		1472.7
12/13/14 0:29		1469.6
12/13/14 0:30	27.531	1466.7
12/13/14 0:31		1464.6
12/13/14 0:32		1462.5
12/13/14 0:33		1460.4
12/13/14 0:34		1458.3
12/13/14 0:35	27.475	1456.0
12/13/14 0:36		1453.6
12/13/14 0:37		1451.2
12/13/14 0:38		1448.8
12/13/14 0:39		1446.4
12/13/14 0:40	27.411	1443.8
12/13/14 0:41		1440.4
12/13/14 0:42		1437.0
12/13/14 0:43		1433.6
12/13/14 0:44		1430.2
12/13/14 0:45	27.324	1427.1
12/13/14 0:46		1424.0
12/13/14 0:47		1420.9
12/13/14 0:48		1417.8
12/13/14 0:49		1414.7
12/13/14 0:50	27.244	1411.8
12/13/14 0:51		1409.7
12/13/14 0:52		1407.6
12/13/14 0:53		1405.5
12/13/14 0:54		1403.4
12/13/14 0:55	27.188	1401.1
12/13/14 0:56		1398.7
12/13/14 0:57		1396.3
12/13/14 0:58		1393.9
12/13/14 0:59		1391.5
12/13/14 1:00	27.125	1388.9
12/13/14 1:01		1385.8
12/13/14 1:02		1382.7

Date and Time	Level (inches)	Flow (cfs)
12/13/14 1:03		1379.6
12/13/14 1:04		1376.5
12/13/14 1:05	27.045	1373.6
12/13/14 1:06		1370.9
12/13/14 1:07		1368.2
12/13/14 1:08		1365.5
12/13/14 1:09		1362.8
12/13/14 1:10	26.973	1359.9
12/13/14 1:11		1355.6
12/13/14 1:12		1351.3
12/13/14 1:13		1347.0
12/13/14 1:14		1342.7
12/13/14 1:15	26.862	1338.5
12/13/14 1:16		1336.4
12/13/14 1:17		1334.3
12/13/14 1:18		1332.2
12/13/14 1:19		1330.1
12/13/14 1:20	26.806	1327.9
12/13/14 1:21		1325.8
12/13/14 1:22		1323.7
12/13/14 1:23		1321.6
12/13/14 1:24		1319.5
12/13/14 1:25	26.75	1317.2
12/13/14 1:26		1312.0
12/13/14 1:27		1306.8
12/13/14 1:28		1301.6
12/13/14 1:29		1296.4
12/13/14 1:30	26.615	1291.2
12/13/14 1:31		1290.6
12/13/14 1:32		1290.0
12/13/14 1:33		1289.4
12/13/14 1:34		1288.8
12/13/14 1:35	26.599	1288.2
12/13/14 1:36		1286.4
12/13/14 1:37		1284.6
12/13/14 1:38		1282.8
12/13/14 1:39		1281.0
12/13/14 1:40	26.551	1279.0
12/13/14 1:41		1276.6
12/13/14 1:42		1274.2
12/13/14 1:43		1271.8
12/13/14 1:44		1269.4
12/13/14 1:45	26.488	1266.8
12/13/14 1:46		1263.7
12/13/14 1:47		1260.6

Date and Time	Level (inches)	Flow (cfs)
12/13/14 1:48		1257.5
12/13/14 1:49		1254.4
12/13/14 1:50	26.408	1251.6
12/13/14 1:51		1248.5
12/13/14 1:52		1245.4
12/13/14 1:53		1242.3
12/13/14 1:54		1239.2
12/13/14 1:55	26.328	1236.3
12/13/14 1:56		1235.7
12/13/14 1:57		1235.1
12/13/14 1:58		1234.5
12/13/14 1:59		1233.9
12/13/14 2:00	26.313	1233.2
12/13/14 2:01		1229.5
12/13/14 2:02		1225.8
12/13/14 2:03		1222.1
12/13/14 2:04		1218.4
12/13/14 2:05	26.217	1214.9
12/13/14 2:06		1212.8
12/13/14 2:07		1210.7
12/13/14 2:08		1208.6
12/13/14 2:09		1206.5
12/13/14 2:10	26.161	1204.2
12/13/14 2:11		1199.6
12/13/14 2:12		1195.0
12/13/14 2:13		1190.4
12/13/14 2:14		1185.8
12/13/14 2:15	26.042	1181.4
12/13/14 2:16		1178.3
12/13/14 2:17		1175.2
12/13/14 2:18		1172.1
12/13/14 2:19		1169.0
12/13/14 2:20	25.962	1166.1
12/13/14 2:21		1162.7
12/13/14 2:22		1159.3
12/13/14 2:23		1155.9
12/13/14 2:24		1152.5
12/13/14 2:25	25.875	1149.3
12/13/14 2:26		1147.2
12/13/14 2:27		1145.1
12/13/14 2:28		1143.0
12/13/14 2:29		1140.9
12/13/14 2:30	25.819	1138.6
12/13/14 2:31		1135.5
12/13/14 2:32		1132.4

Date and Time	Level (inches)	Flow (cfs)
12/13/14 2:33		1129.3
12/13/14 2:34		1126.2
12/13/14 2:35	25.739	1123.4
12/13/14 2:36		1120.0
12/13/14 2:37		1116.6
12/13/14 2:38		1113.2
12/13/14 2:39		1109.8
12/13/14 2:40	25.652	1106.6
12/13/14 2:41		1103.2
12/13/14 2:42		1099.8
12/13/14 2:43		1096.4
12/13/14 2:44		1093.0
12/13/14 2:45	25.564	1089.8
12/13/14 2:46		1087.1
12/13/14 2:47		1084.4
12/13/14 2:48		1081.7
12/13/14 2:49		1079.0
12/13/14 2:50	25.492	1076.1
12/13/14 2:51		1073.0
12/13/14 2:52		1069.9
12/13/14 2:53		1066.8
12/13/14 2:54		1063.7
12/13/14 2:55	25.413	1060.8
12/13/14 2:56		1058.4
12/13/14 2:57		1056.0
12/13/14 2:58		1053.6
12/13/14 2:59		1051.2
12/13/14 3:00	25.349	1048.6
12/13/14 3:01		1044.6
12/13/14 3:02		1040.6
12/13/14 3:03		1036.6
12/13/14 3:04		1032.6
12/13/14 3:05	25.246	1028.7
12/13/14 3:06		1025.0
12/13/14 3:07		1021.3
12/13/14 3:08		1017.6
12/13/14 3:09		1013.9
12/13/14 3:10	25.15	1010.4
12/13/14 3:11		1008.0
12/13/14 3:12		1005.6
12/13/14 3:13		1003.2
12/13/14 3:14		1000.8
12/13/14 3:15	25.086	998.2
12/13/14 3:16		994.2
12/13/14 3:17		990.2

Date and Time	Level (inches)	Flow (cfs)
12/13/14 3:18		986.2
12/13/14 3:19		982.2
12/13/14 3:20	24.983	978.4
12/13/14 3:21		974.4
12/13/14 3:22		970.4
12/13/14 3:23		966.4
12/13/14 3:24		962.4
12/13/14 3:25	24.879	958.5
12/13/14 3:26		955.8
12/13/14 3:27		953.1
12/13/14 3:28		950.4
12/13/14 3:29		947.7
12/13/14 3:30	24.808	944.8
12/13/14 3:31		941.7
12/13/14 3:32		938.6
12/13/14 3:33		935.5
12/13/14 3:34		932.4
12/13/14 3:35	24.728	929.5
12/13/14 3:36		926.4
12/13/14 3:37		923.3
12/13/14 3:38		920.2
12/13/14 3:39		917.1
12/13/14 3:40	24.648	914.3
12/13/14 3:41		914.3
12/13/14 3:42		914.3
12/13/14 3:43		914.3
12/13/14 3:44		914.3
12/13/14 3:45	24.585	902.1
12/13/14 3:46		902.1
12/13/14 3:47		902.1
12/13/14 3:48		902.1
12/13/14 3:49		902.1
12/13/14 3:50	24.505	886.8
12/13/14 3:51		886.8
12/13/14 3:52		886.8
12/13/14 3:53		886.8
12/13/14 3:54		886.8
12/13/14 3:55	24.433	873.1
12/13/14 3:56		873.1
12/13/14 3:57		873.1
12/13/14 3:58		873.1
12/13/14 3:59		873.1
12/13/14 4:00	24.441	874.6
12/13/14 4:01		874.6
12/13/14 4:02		874.6

Date and Time	Level (inches)	Flow (cfs)
12/13/14 4:03		874.6
12/13/14 4:04		874.6
12/13/14 4:05	24.426	871.6
12/13/14 4:06		871.6
12/13/14 4:07		871.6
12/13/14 4:08		871.6
12/13/14 4:09		871.6
12/13/14 4:10	24.187	825.8
12/13/14 4:11		825.8
12/13/14 4:12		825.8
12/13/14 4:13		825.8
12/13/14 4:14		825.8
12/13/14 4:15	24.115	812.0
12/13/14 4:16		812.0
12/13/14 4:17		812.0
12/13/14 4:18		812.0
12/13/14 4:19		812.0
12/13/14 4:20	24.035	796.8
12/13/14 4:21		796.8
12/13/14 4:22		796.8
12/13/14 4:23		796.8
12/13/14 4:24		796.8
12/13/14 4:25	23.972	787.1
12/13/14 4:26		787.1
12/13/14 4:27		787.1
12/13/14 4:28		787.1
12/13/14 4:29		787.1
12/13/14 4:30	23.908	780.6
12/13/14 4:31		780.6
12/13/14 4:32		780.6
12/13/14 4:33		780.6
12/13/14 4:34		780.6
12/13/14 4:35	23.82	771.7
12/13/14 4:36		771.7
12/13/14 4:37		771.7
12/13/14 4:38		771.7
12/13/14 4:39		771.7
12/13/14 4:40	23.749	764.5
12/13/14 4:41		764.5
12/13/14 4:42		764.5
12/13/14 4:43		764.5
12/13/14 4:44		764.5
12/13/14 4:45	23.669	756.4
12/13/14 4:46		756.4
12/13/14 4:47		756.4

Date and Time	Level (inches)	Flow (cfs)
12/13/14 4:48		756.4
12/13/14 4:49		756.4
12/13/14 4:50	23.621	751.5
12/13/14 4:51		751.5
12/13/14 4:52		751.5
12/13/14 4:53		751.5
12/13/14 4:54		751.5
12/13/14 4:55	23.542	743.4
12/13/14 4:56		743.4
12/13/14 4:57		743.4
12/13/14 4:58		743.4
12/13/14 4:59		743.4
12/13/14 5:00	23.462	735.3
12/13/14 5:01		735.3
12/13/14 5:02		735.3
12/13/14 5:03		735.3
12/13/14 5:04		735.3
12/13/14 5:05	23.398	728.8
12/13/14 5:06		728.8
12/13/14 5:07		728.8
12/13/14 5:08		728.8
12/13/14 5:09		728.8
12/13/14 5:10	23.335	722.4
12/13/14 5:11		722.4
12/13/14 5:12		722.4
12/13/14 5:13		722.4
12/13/14 5:14		722.4
12/13/14 5:15	23.279	716.7
12/13/14 5:16		716.7
12/13/14 5:17		716.7
12/13/14 5:18		716.7
12/13/14 5:19		716.7
12/13/14 5:20	23.271	715.9
12/13/14 5:21		715.9
12/13/14 5:22		715.9
12/13/14 5:23		715.9
12/13/14 5:24		715.9
12/13/14 5:25	23.183	707.0
12/13/14 5:26		707.0
12/13/14 5:27		707.0
12/13/14 5:28		707.0
12/13/14 5:29		707.0
12/13/14 5:30	23.136	702.1
12/13/14 5:31		702.1
12/13/14 5:32		702.1

Date and Time	Level (inches)	Flow (cfs)
12/13/14 5:33		702.1
12/13/14 5:34		702.1
12/13/14 5:35	23.136	702.1
12/13/14 5:36		702.1
12/13/14 5:37		702.1
12/13/14 5:38		702.1
12/13/14 5:39		702.1
12/13/14 5:40	23.088	697.3
12/13/14 5:41		697.3
12/13/14 5:42		697.3
12/13/14 5:43		697.3
12/13/14 5:44		697.3
12/13/14 5:45	23.048	693.2
12/13/14 5:46		693.2
12/13/14 5:47		693.2
12/13/14 5:48		693.2
12/13/14 5:49		693.2
12/13/14 5:50	22.992	687.6
12/13/14 5:51		687.6
12/13/14 5:52		687.6
12/13/14 5:53		687.6
12/13/14 5:54		687.6
12/13/14 5:55	22.905	678.6
12/13/14 5:56		678.6
12/13/14 5:57		678.6
12/13/14 5:58		678.6
12/13/14 5:59		678.6
12/13/14 6:00	22.865	674.6
12/13/14 6:01		674.6
12/13/14 6:02		674.6
12/13/14 6:03		674.6
12/13/14 6:04		674.6
12/13/14 6:05	22.785	666.5
12/13/14 6:06		666.5
12/13/14 6:07		666.5
12/13/14 6:08		666.5
12/13/14 6:09		666.5
12/13/14 6:10	22.761	664.1
12/13/14 6:11		664.1
12/13/14 6:12		664.1
12/13/14 6:13		664.1
12/13/14 6:14		664.1
12/13/14 6:15	22.722	660.0
12/13/14 6:16		660.0
12/13/14 6:17		660.0

Date and Time	Level (inches)	Flow (cfs)
12/13/14 6:18		660.0
12/13/14 6:19		660.0
12/13/14 6:20	22.674	655.2
12/13/14 6:21		655.2
12/13/14 6:22		655.2
12/13/14 6:23		655.2
12/13/14 6:24		655.2
12/13/14 6:25	22.634	651.1
12/13/14 6:26		651.1
12/13/14 6:27		651.1
12/13/14 6:28		651.1
12/13/14 6:29		651.1
12/13/14 6:30	22.602	647.9
12/13/14 6:31		647.9
12/13/14 6:32		647.9
12/13/14 6:33		647.9
12/13/14 6:34		647.9
12/13/14 6:35	22.546	642.2
12/13/14 6:36		642.2
12/13/14 6:37		642.2
12/13/14 6:38		642.2
12/13/14 6:39		642.2
12/13/14 6:40	22.507	638.2
12/13/14 6:41		638.2
12/13/14 6:42		638.2
12/13/14 6:43		638.2
12/13/14 6:44		638.2
12/13/14 6:45	22.499	637.4
12/13/14 6:46		637.4
12/13/14 6:47		637.4
12/13/14 6:48		637.4
12/13/14 6:49		637.4
12/13/14 6:50	22.427	630.1
12/13/14 6:51		630.1
12/13/14 6:52		630.1
12/13/14 6:53		630.1
12/13/14 6:54		630.1
12/13/14 6:55	22.395	626.8
12/13/14 6:56		626.8
12/13/14 6:57		626.8
12/13/14 6:58		626.8
12/13/14 6:59		626.8
12/13/14 7:00	22.363	623.6
12/13/14 7:01		623.6
12/13/14 7:02		623.6

Date and Time	Level (inches)	Flow (cfs)
12/13/14 7:03		623.6
12/13/14 7:04		623.6
12/13/14 7:05	22.331	620.4
12/13/14 7:06		620.4
12/13/14 7:07		620.4
12/13/14 7:08		620.4
12/13/14 7:09		620.4
12/13/14 7:10	22.26	613.1
12/13/14 7:11		613.1
12/13/14 7:12		613.1
12/13/14 7:13		613.1
12/13/14 7:14		613.1
12/13/14 7:15	22.22	609.0
12/13/14 7:16		609.0
12/13/14 7:17		609.0
12/13/14 7:18		609.0
12/13/14 7:19		609.0
12/13/14 7:20	22.188	605.8
12/13/14 7:21		605.8
12/13/14 7:22		605.8
12/13/14 7:23		605.8
12/13/14 7:24		605.8
12/13/14 7:25	22.148	601.7
12/13/14 7:26		601.7
12/13/14 7:27		601.7
12/13/14 7:28		601.7
12/13/14 7:29		601.7
12/13/14 7:30	22.109	597.7
12/13/14 7:31		597.7
12/13/14 7:32		597.7
12/13/14 7:33		597.7
12/13/14 7:34		597.7
12/13/14 7:35	22.053	592.0
12/13/14 7:36		592.0
12/13/14 7:37		592.0
12/13/14 7:38		592.0
12/13/14 7:39		592.0
12/13/14 7:40	22.005	587.2
12/13/14 7:41		587.2
12/13/14 7:42		587.2
12/13/14 7:43		587.2
12/13/14 7:44		587.2
12/13/14 7:45	21.973	583.9
12/13/14 7:46		583.9
12/13/14 7:47		583.9

Date and Time	Level (inches)	Flow (cfs)
12/13/14 7:48		583.9
12/13/14 7:49		583.9
12/13/14 7:50	21.917	578.3
12/13/14 7:51		578.3
12/13/14 7:52		578.3
12/13/14 7:53		578.3
12/13/14 7:54		578.3
12/13/14 7:55	21.886	575.0
12/13/14 7:56		575.0
12/13/14 7:57		575.0
12/13/14 7:58		575.0
12/13/14 7:59		575.0
12/13/14 8:00	21.83	569.4
12/13/14 8:01		569.4
12/13/14 8:02		569.4
12/13/14 8:03		569.4
12/13/14 8:04		569.4
12/13/14 8:05	21.79	565.3
12/13/14 8:06		565.3
12/13/14 8:07		565.3
12/13/14 8:08		565.3
12/13/14 8:09		565.3
12/13/14 8:10	21.758	562.1
12/13/14 8:11		562.1
12/13/14 8:12		562.1
12/13/14 8:13		562.1
12/13/14 8:14		562.1
12/13/14 8:15	21.71	557.2
12/13/14 8:16		557.2
12/13/14 8:17		557.2
12/13/14 8:18		557.2
12/13/14 8:19		557.2
12/13/14 8:20	21.671	553.2
12/13/14 8:21		553.2
12/13/14 8:22		553.2
12/13/14 8:23		553.2
12/13/14 8:24		553.2
12/13/14 8:25	21.655	551.6

Table F-9. Storm 2 TL Flow

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 13:16	0.645	0.28	0.679
12/11/14 13:17	0.645	0.28	0.679
12/11/14 13:18	0.645	0.28	0.679
12/11/14 13:19	0.645	0.28	0.679
12/11/14 13:20	0.645	0.28	0.679
12/11/14 13:21	0.645	0.28	0.679
12/11/14 13:22	0.645	0.28	0.679
12/11/14 13:23	0.645	0.28	0.679
12/11/14 13:24	0.645	0.28	0.679
12/11/14 13:25	0.645	0.28	0.679
12/11/14 13:26	0.645	0.28	0.679
12/11/14 13:27	0.645	0.28	0.679
12/11/14 13:28	0.645	0.28	0.679
12/11/14 13:29	0.645	0.28	0.679
12/11/14 13:30	0.645	0.28	0.679
12/11/14 13:31	0.645	0.28	0.679
12/11/14 13:32	0.645	0.28	0.679
12/11/14 13:33	0.645	0.28	0.679
12/11/14 13:34	0.645	0.28	0.679
12/11/14 13:35	0.645	0.28	0.679
12/11/14 13:36	0.645	0.28	0.679
12/11/14 13:37	0.645	0.28	0.679
12/11/14 13:38	0.645	0.28	0.679
12/11/14 13:39	0.645	0.28	0.679
12/11/14 13:40	0.645	0.28	0.679
12/11/14 13:41	0.645	0.28	0.679
12/11/14 13:42	0.645	0.28	0.679
12/11/14 13:43	0.645	0.28	0.679
12/11/14 13:44	0.645	0.28	0.679
12/11/14 13:45	0.645	0.28	0.679
12/11/14 13:46	0.645	0.28	0.679
12/11/14 13:47	0.645	0.28	0.679
12/11/14 13:48	0.645	0.28	0.679
12/11/14 13:49	0.645	0.28	0.679
12/11/14 13:50	0.645	0.28	0.679
12/11/14 13:51	0.645	0.28	0.679
12/11/14 13:52	0.645	0.28	0.679
12/11/14 13:53	0.645	0.28	0.679
12/11/14 13:54	0.645	0.28	0.679
12/11/14 13:55	0.645	0.28	0.679
12/11/14 13:56	0.645	0.28	0.679
12/11/14 13:57	0.645	0.28	0.679
12/11/14 13:58	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 13:59	0.645	0.28	0.679
12/11/14 14:00	0.645	0.28	0.679
12/11/14 14:01	0.645	0.28	0.679
12/11/14 14:02	0.645	0.28	0.679
12/11/14 14:03	0.645	0.28	0.679
12/11/14 14:04	0.645	0.28	0.679
12/11/14 14:05	0.645	0.28	0.679
12/11/14 14:06	0.645	0.28	0.679
12/11/14 14:07	0.645	0.28	0.679
12/11/14 14:08	0.645	0.28	0.679
12/11/14 14:09	0.645	0.28	0.679
12/11/14 14:10	0.645	0.28	0.679
12/11/14 14:11	0.645	0.28	0.679
12/11/14 14:12	0.645	0.28	0.679
12/11/14 14:13	0.645	0.28	0.679
12/11/14 14:14	0.645	0.28	0.679
12/11/14 14:15	0.645	0.28	0.679
12/11/14 14:16	0.645	0.28	0.679
12/11/14 14:17	0.645	0.28	0.679
12/11/14 14:18	0.645	0.28	0.679
12/11/14 14:19	0.645	0.28	0.679
12/11/14 14:20	0.645	0.28	0.679
12/11/14 14:21	0.645	0.28	0.679
12/11/14 14:22	0.645	0.28	0.679
12/11/14 14:23	0.645	0.28	0.679
12/11/14 14:24	0.645	0.28	0.679
12/11/14 14:25	0.645	0.28	0.679
12/11/14 14:26	0.645	0.28	0.679
12/11/14 14:27	0.645	0.28	0.679
12/11/14 14:28	0.645	0.28	0.679
12/11/14 14:29	0.645	0.28	0.679
12/11/14 14:30	0.645	0.28	0.679
12/11/14 14:31	0.645	0.28	0.679
12/11/14 14:32	0.645	0.28	0.679
12/11/14 14:33	0.645	0.28	0.679
12/11/14 14:34	0.645	0.28	0.679
12/11/14 14:35	0.645	0.28	0.679
12/11/14 14:36	0.645	0.28	0.679
12/11/14 14:37	0.645	0.28	0.679
12/11/14 14:38	0.645	0.28	0.679
12/11/14 14:39	0.645	0.28	0.679
12/11/14 14:40	0.645	0.28	0.679
12/11/14 14:41	0.645	0.28	0.679
12/11/14 14:42	0.645	0.28	0.679
12/11/14 14:43	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 14:44	0.645	0.28	0.679
12/11/14 14:45	0.645	0.28	0.679
12/11/14 14:46	0.645	0.28	0.679
12/11/14 14:47	0.645	0.28	0.679
12/11/14 14:48	0.645	0.28	0.679
12/11/14 14:49	0.645	0.28	0.679
12/11/14 14:50	0.645	0.28	0.679
12/11/14 14:51	0.645	0.28	0.679
12/11/14 14:52	0.645	0.28	0.679
12/11/14 14:53	0.645	0.28	0.679
12/11/14 14:54	0.645	0.28	0.679
12/11/14 14:55	0.645	0.28	0.679
12/11/14 14:56	0.645	0.28	0.679
12/11/14 14:57	0.645	0.28	0.679
12/11/14 14:58	0.645	0.28	0.679
12/11/14 14:59	0.645	0.28	0.679
12/11/14 15:00	0.645	0.28	0.679
12/11/14 15:01	0.645	0.28	0.679
12/11/14 15:02	0.645	0.28	0.679
12/11/14 15:03	0.645	0.28	0.679
12/11/14 15:04	0.645	0.28	0.679
12/11/14 15:05	0.645	0.28	0.679
12/11/14 15:06	0.645	0.28	0.679
12/11/14 15:07	0.645	0.28	0.679
12/11/14 15:08	0.645	0.28	0.679
12/11/14 15:09	0.645	0.28	0.679
12/11/14 15:10	0.645	0.28	0.679
12/11/14 15:11	0.645	0.28	0.679
12/11/14 15:12	0.645	0.28	0.679
12/11/14 15:13	0.645	0.28	0.679
12/11/14 15:14	0.645	0.28	0.679
12/11/14 15:15	0.645	0.28	0.679
12/11/14 15:16	0.645	0.28	0.679
12/11/14 15:17	0.645	0.28	0.679
12/11/14 15:18	0.645	0.28	0.679
12/11/14 15:19	0.645	0.28	0.679
12/11/14 15:20	0.645	0.28	0.679
12/11/14 15:21	0.645	0.28	0.679
12/11/14 15:22	0.645	0.28	0.679
12/11/14 15:23	0.645	0.28	0.679
12/11/14 15:24	0.645	0.28	0.679
12/11/14 15:25	0.645	0.28	0.679
12/11/14 15:26	0.645	0.28	0.679
12/11/14 15:27	0.645	0.28	0.679
12/11/14 15:28	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 15:29	0.645	0.28	0.679
12/11/14 15:30	0.645	0.28	0.679
12/11/14 15:31	0.645	0.28	0.679
12/11/14 15:32	0.645	0.28	0.679
12/11/14 15:33	0.645	0.28	0.679
12/11/14 15:34	0.645	0.28	0.679
12/11/14 15:35	0.645	0.28	0.679
12/11/14 15:36	0.645	0.28	0.679
12/11/14 15:37	0.645	0.28	0.679
12/11/14 15:38	0.645	0.28	0.679
12/11/14 15:39	0.645	0.28	0.679
12/11/14 15:40	0.645	0.28	0.679
12/11/14 15:41	0.645	0.28	0.679
12/11/14 15:42	0.645	0.28	0.679
12/11/14 15:43	0.645	0.28	0.679
12/11/14 15:44	0.645	0.28	0.679
12/11/14 15:45	0.645	0.28	0.679
12/11/14 15:46	0.645	0.28	0.679
12/11/14 15:47	0.645	0.28	0.679
12/11/14 15:48	0.645	0.28	0.679
12/11/14 15:49	0.645	0.28	0.679
12/11/14 15:50	0.645	0.28	0.679
12/11/14 15:51	0.645	0.28	0.679
12/11/14 15:52	0.645	0.28	0.679
12/11/14 15:53	0.645	0.28	0.679
12/11/14 15:54	0.645	0.28	0.679
12/11/14 15:55	0.645	0.28	0.679
12/11/14 15:56	0.645	0.28	0.679
12/11/14 15:57	0.645	0.28	0.679
12/11/14 15:58	0.645	0.28	0.679
12/11/14 15:59	0.645	0.28	0.679
12/11/14 16:00	0.645	0.28	0.679
12/11/14 16:01	0.645	0.28	0.679
12/11/14 16:02	0.645	0.28	0.679
12/11/14 16:03	0.645	0.28	0.679
12/11/14 16:04	0.645	0.28	0.679
12/11/14 16:05	0.645	0.28	0.679
12/11/14 16:06	0.645	0.28	0.679
12/11/14 16:07	0.645	0.28	0.679
12/11/14 16:08	0.645	0.28	0.679
12/11/14 16:09	0.645	0.28	0.679
12/11/14 16:10	0.645	0.28	0.679
12/11/14 16:11	0.645	0.28	0.679
12/11/14 16:12	0.645	0.28	0.679
12/11/14 16:13	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 16:14	0.645	0.28	0.679
12/11/14 16:15	0.645	0.28	0.679
12/11/14 16:16	0.645	0.28	0.679
12/11/14 16:17	0.645	0.28	0.679
12/11/14 16:18	0.645	0.28	0.679
12/11/14 16:19	0.645	0.28	0.679
12/11/14 16:20	0.645	0.28	0.679
12/11/14 16:21	0.645	0.28	0.679
12/11/14 16:22	0.645	0.28	0.679
12/11/14 16:23	0.645	0.28	0.679
12/11/14 16:24	0.645	0.28	0.679
12/11/14 16:25	0.645	0.28	0.679
12/11/14 16:26	0.645	0.28	0.679
12/11/14 16:27	0.645	0.28	0.679
12/11/14 16:28	0.645	0.28	0.679
12/11/14 16:29	0.645	0.28	0.679
12/11/14 16:30	0.645	0.28	0.679
12/11/14 16:31	0.645	0.28	0.679
12/11/14 16:32	0.645	0.28	0.679
12/11/14 16:33	0.645	0.28	0.679
12/11/14 16:34	0.645	0.28	0.679
12/11/14 16:35	0.645	0.28	0.679
12/11/14 16:36	0.645	0.28	0.679
12/11/14 16:37	0.645	0.28	0.679
12/11/14 16:38	0.645	0.28	0.679
12/11/14 16:39	0.645	0.28	0.679
12/11/14 16:40	0.645	0.28	0.679
12/11/14 16:41	0.645	0.28	0.679
12/11/14 16:42	0.645	0.28	0.679
12/11/14 16:43	0.645	0.28	0.679
12/11/14 16:44	0.645	0.28	0.679
12/11/14 16:45	0.645	0.28	0.679
12/11/14 16:46	0.645	0.28	0.679
12/11/14 16:47	0.645	0.28	0.679
12/11/14 16:48	0.645	0.28	0.679
12/11/14 16:49	0.645	0.28	0.679
12/11/14 16:50	0.645	0.28	0.679
12/11/14 16:51	0.645	0.28	0.679
12/11/14 16:52	0.645	0.28	0.679
12/11/14 16:53	0.645	0.28	0.679
12/11/14 16:54	0.645	0.28	0.679
12/11/14 16:55	0.645	0.28	0.679
12/11/14 16:56	0.645	0.28	0.679
12/11/14 16:57	0.645	0.28	0.679
12/11/14 16:58	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 16:59	0.645	0.28	0.679
12/11/14 17:00	0.645	0.28	0.679
12/11/14 17:01	0.645	0.28	0.679
12/11/14 17:02	0.645	0.28	0.679
12/11/14 17:03	0.645	0.28	0.679
12/11/14 17:04	0.645	0.28	0.679
12/11/14 17:05	0.645	0.28	0.679
12/11/14 17:06	0.645	0.28	0.679
12/11/14 17:07	0.645	0.28	0.679
12/11/14 17:08	0.645	0.28	0.679
12/11/14 17:09	0.645	0.28	0.679
12/11/14 17:10	0.645	0.28	0.679
12/11/14 17:11	0.645	0.28	0.679
12/11/14 17:12	0.645	0.28	0.679
12/11/14 17:13	0.645	0.28	0.679
12/11/14 17:14	0.645	0.28	0.679
12/11/14 17:15	0.645	0.28	0.679
12/11/14 17:16	0.645	0.28	0.679
12/11/14 17:17	0.645	0.28	0.679
12/11/14 17:18	0.645	0.28	0.679
12/11/14 17:19	0.645	0.28	0.679
12/11/14 17:20	0.645	0.28	0.679
12/11/14 17:21	0.645	0.28	0.679
12/11/14 17:22	0.645	0.28	0.679
12/11/14 17:23	0.645	0.28	0.679
12/11/14 17:24	0.645	0.28	0.679
12/11/14 17:25	0.645	0.28	0.679
12/11/14 17:26	0.645	0.28	0.679
12/11/14 17:27	0.645	0.28	0.679
12/11/14 17:28	0.645	0.28	0.679
12/11/14 17:29	0.645	0.28	0.679
12/11/14 17:30	0.645	0.28	0.679
12/11/14 17:31	0.645	0.28	0.679
12/11/14 17:32	0.645	0.28	0.679
12/11/14 17:33	0.645	0.28	0.679
12/11/14 17:34	0.645	0.28	0.679
12/11/14 17:35	0.645	0.28	0.679
12/11/14 17:36	0.645	0.28	0.679
12/11/14 17:37	0.645	0.28	0.679
12/11/14 17:38	0.645	0.28	0.679
12/11/14 17:39	0.645	0.28	0.679
12/11/14 17:40	0.645	0.28	0.679
12/11/14 17:41	0.645	0.28	0.679
12/11/14 17:42	0.645	0.28	0.679
12/11/14 17:43	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 17:44	0.645	0.28	0.679
12/11/14 17:45	0.645	0.28	0.679
12/11/14 17:46	0.645	0.28	0.679
12/11/14 17:47	0.645	0.28	0.679
12/11/14 17:48	0.645	0.28	0.679
12/11/14 17:49	0.645	0.28	0.679
12/11/14 17:50	0.645	0.28	0.679
12/11/14 17:51	0.645	0.28	0.679
12/11/14 17:52	0.645	0.28	0.679
12/11/14 17:53	0.645	0.28	0.679
12/11/14 17:54	0.645	0.28	0.679
12/11/14 17:55	0.645	0.28	0.679
12/11/14 17:56	0.645	0.28	0.679
12/11/14 17:57	0.645	0.28	0.679
12/11/14 17:58	0.645	0.28	0.679
12/11/14 17:59	0.645	0.28	0.679
12/11/14 18:00	0.645	0.28	0.679
12/11/14 18:01	0.645	0.28	0.679
12/11/14 18:02	0.645	0.28	0.679
12/11/14 18:03	0.645	0.28	0.679
12/11/14 18:04	0.645	0.28	0.679
12/11/14 18:05	0.645	0.28	0.679
12/11/14 18:06	0.645	0.28	0.679
12/11/14 18:07	0.645	0.28	0.679
12/11/14 18:08	0.645	0.28	0.679
12/11/14 18:09	0.645	0.28	0.679
12/11/14 18:10	0.645	0.28	0.679
12/11/14 18:11	0.645	0.28	0.679
12/11/14 18:12	0.645	0.28	0.679
12/11/14 18:13	0.645	0.28	0.679
12/11/14 18:14	0.645	0.28	0.679
12/11/14 18:15	0.645	0.28	0.679
12/11/14 18:16	0.645	0.28	0.679
12/11/14 18:17	0.645	0.28	0.679
12/11/14 18:18	0.645	0.28	0.679
12/11/14 18:19	0.645	0.28	0.679
12/11/14 18:20	0.645	0.28	0.679
12/11/14 18:21	0.645	0.28	0.679
12/11/14 18:22	0.645	0.28	0.679
12/11/14 18:23	0.645	0.28	0.679
12/11/14 18:24	0.645	0.28	0.679
12/11/14 18:25	0.645	0.28	0.679
12/11/14 18:26	0.645	0.28	0.679
12/11/14 18:27	0.645	0.28	0.679
12/11/14 18:28	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 18:29	0.645	0.28	0.679
12/11/14 18:30	0.645	0.28	0.679
12/11/14 18:31	0.645	0.28	0.679
12/11/14 18:32	0.645	0.28	0.679
12/11/14 18:33	0.645	0.28	0.679
12/11/14 18:34	0.645	0.28	0.679
12/11/14 18:35	0.645	0.28	0.679
12/11/14 18:36	0.645	0.28	0.679
12/11/14 18:37	0.645	0.28	0.679
12/11/14 18:38	0.645	0.28	0.679
12/11/14 18:39	0.645	0.28	0.679
12/11/14 18:40	0.645	0.28	0.679
12/11/14 18:41	0.645	0.28	0.679
12/11/14 18:42	0.645	0.28	0.679
12/11/14 18:43	0.645	0.28	0.679
12/11/14 18:44	0.645	0.28	0.679
12/11/14 18:45	0.645	0.28	0.679
12/11/14 18:46	0.645	0.28	0.679
12/11/14 18:47	0.645	0.28	0.679
12/11/14 18:48	0.645	0.28	0.679
12/11/14 18:49	0.645	0.28	0.679
12/11/14 18:50	0.645	0.28	0.679
12/11/14 18:51	0.645	0.28	0.679
12/11/14 18:52	0.645	0.28	0.679
12/11/14 18:53	0.645	0.28	0.679
12/11/14 18:54	0.645	0.28	0.679
12/11/14 18:55	0.645	0.28	0.679
12/11/14 18:56	0.645	0.28	0.679
12/11/14 18:57	0.645	0.28	0.679
12/11/14 18:58	0.645	0.28	0.679
12/11/14 18:59	0.645	0.28	0.679
12/11/14 19:00	0.645	0.28	0.679
12/11/14 19:01	0.645	0.28	0.679
12/11/14 19:02	0.645	0.28	0.679
12/11/14 19:03	0.645	0.28	0.679
12/11/14 19:04	0.645	0.28	0.679
12/11/14 19:05	0.645	0.28	0.679
12/11/14 19:06	0.645	0.28	0.679
12/11/14 19:07	0.645	0.28	0.679
12/11/14 19:08	0.645	0.28	0.679
12/11/14 19:09	0.645	0.28	0.679
12/11/14 19:10	0.645	0.28	0.679
12/11/14 19:11	0.645	0.28	0.679
12/11/14 19:12	0.645	0.28	0.679
12/11/14 19:13	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 19:14	0.645	0.28	0.679
12/11/14 19:15	0.645	0.28	0.679
12/11/14 19:16	0.645	0.28	0.679
12/11/14 19:17	0.645	0.28	0.679
12/11/14 19:18	0.645	0.28	0.679
12/11/14 19:19	0.645	0.28	0.679
12/11/14 19:20	0.645	0.28	0.679
12/11/14 19:21	0.645	0.28	0.679
12/11/14 19:22	0.645	0.28	0.679
12/11/14 19:23	0.645	0.28	0.679
12/11/14 19:24	0.645	0.28	0.679
12/11/14 19:25	0.645	0.28	0.679
12/11/14 19:26	0.645	0.28	0.679
12/11/14 19:27	0.645	0.28	0.679
12/11/14 19:28	0.645	0.28	0.679
12/11/14 19:29	0.645	0.28	0.679
12/11/14 19:30	0.645	0.28	0.679
12/11/14 19:31	0.645	0.28	0.679
12/11/14 19:32	0.645	0.28	0.679
12/11/14 19:33	0.645	0.28	0.679
12/11/14 19:34	0.645	0.28	0.679
12/11/14 19:35	0.645	0.28	0.679
12/11/14 19:36	0.645	0.28	0.679
12/11/14 19:37	0.645	0.28	0.679
12/11/14 19:38	0.645	0.28	0.679
12/11/14 19:39	0.645	0.28	0.679
12/11/14 19:40	0.645	0.28	0.679
12/11/14 19:41	0.645	0.28	0.679
12/11/14 19:42	0.645	0.28	0.679
12/11/14 19:43	0.645	0.28	0.679
12/11/14 19:44	0.645	0.28	0.679
12/11/14 19:45	0.645	0.28	0.679
12/11/14 19:46	0.645	0.28	0.679
12/11/14 19:47	0.645	0.28	0.679
12/11/14 19:48	0.645	0.28	0.679
12/11/14 19:49	0.645	0.28	0.679
12/11/14 19:50	0.645	0.28	0.679
12/11/14 19:51	0.645	0.28	0.679
12/11/14 19:52	0.645	0.28	0.679
12/11/14 19:53	0.645	0.28	0.679
12/11/14 19:54	0.645	0.28	0.679
12/11/14 19:55	0.645	0.28	0.679
12/11/14 19:56	0.645	0.28	0.679
12/11/14 19:57	0.645	0.28	0.679
12/11/14 19:58	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 19:59	0.645	0.28	0.679
12/11/14 20:00	0.645	0.28	0.679
12/11/14 20:01	0.645	0.28	0.679
12/11/14 20:02	0.645	0.28	0.679
12/11/14 20:03	0.645	0.28	0.679
12/11/14 20:04	0.645	0.28	0.679
12/11/14 20:05	0.645	0.28	0.679
12/11/14 20:06	0.645	0.28	0.679
12/11/14 20:07	0.645	0.28	0.679
12/11/14 20:08	0.645	0.28	0.679
12/11/14 20:09	0.645	0.28	0.679
12/11/14 20:10	0.645	0.28	0.679
12/11/14 20:11	0.645	0.28	0.679
12/11/14 20:12	0.645	0.28	0.679
12/11/14 20:13	0.645	0.28	0.679
12/11/14 20:14	0.645	0.28	0.679
12/11/14 20:15	0.645	0.28	0.679
12/11/14 20:16	0.645	0.28	0.679
12/11/14 20:17	0.645	0.28	0.679
12/11/14 20:18	0.645	0.28	0.679
12/11/14 20:19	0.645	0.28	0.679
12/11/14 20:20	0.645	0.28	0.679
12/11/14 20:21	0.645	0.28	0.679
12/11/14 20:22	0.645	0.28	0.679
12/11/14 20:23	0.645	0.28	0.679
12/11/14 20:24	0.645	0.28	0.679
12/11/14 20:25	0.645	0.28	0.679
12/11/14 20:26	0.645	0.28	0.679
12/11/14 20:27	0.645	0.28	0.679
12/11/14 20:28	0.645	0.28	0.679
12/11/14 20:29	0.645	0.28	0.679
12/11/14 20:30	0.645	0.28	0.679
12/11/14 20:31	0.645	0.28	0.679
12/11/14 20:32	0.645	0.28	0.679
12/11/14 20:33	0.645	0.28	0.679
12/11/14 20:34	0.645	0.28	0.679
12/11/14 20:35	0.645	0.28	0.679
12/11/14 20:36	0.645	0.28	0.679
12/11/14 20:37	0.645	0.28	0.679
12/11/14 20:38	0.645	0.28	0.679
12/11/14 20:39	0.645	0.28	0.679
12/11/14 20:40	0.645	0.28	0.679
12/11/14 20:41	0.645	0.28	0.679
12/11/14 20:42	0.645	0.28	0.679
12/11/14 20:43	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 20:44	0.645	0.28	0.679
12/11/14 20:45	0.645	0.28	0.679
12/11/14 20:46	0.645	0.28	0.679
12/11/14 20:47	0.645	0.28	0.679
12/11/14 20:48	0.645	0.28	0.679
12/11/14 20:49	0.645	0.28	0.679
12/11/14 20:50	0.645	0.28	0.679
12/11/14 20:51	0.645	0.28	0.679
12/11/14 20:52	0.645	0.28	0.679
12/11/14 20:53	0.645	0.28	0.679
12/11/14 20:54	0.645	0.28	0.679
12/11/14 20:55	0.645	0.28	0.679
12/11/14 20:56	0.645	0.28	0.679
12/11/14 20:57	0.645	0.28	0.679
12/11/14 20:58	0.645	0.28	0.679
12/11/14 20:59	0.645	0.28	0.679
12/11/14 21:00	0.645	0.28	0.679
12/11/14 21:01	0.645	0.28	0.679
12/11/14 21:02	0.645	0.28	0.679
12/11/14 21:03	0.645	0.28	0.679
12/11/14 21:04	0.645	0.28	0.679
12/11/14 21:05	0.645	0.28	0.679
12/11/14 21:06	0.645	0.28	0.679
12/11/14 21:07	0.645	0.28	0.679
12/11/14 21:08	0.645	0.28	0.679
12/11/14 21:09	0.645	0.28	0.679
12/11/14 21:10	0.645	0.28	0.679
12/11/14 21:11	0.645	0.28	0.679
12/11/14 21:12	0.645	0.28	0.679
12/11/14 21:13	0.645	0.28	0.679
12/11/14 21:14	0.645	0.28	0.679
12/11/14 21:15	0.645	0.28	0.679
12/11/14 21:16	0.645	0.28	0.679
12/11/14 21:17	0.645	0.28	0.679
12/11/14 21:18	0.645	0.28	0.679
12/11/14 21:19	0.645	0.28	0.679
12/11/14 21:20	0.645	0.28	0.679
12/11/14 21:21	0.645	0.28	0.679
12/11/14 21:22	0.645	0.28	0.679
12/11/14 21:23	0.645	0.28	0.679
12/11/14 21:24	0.645	0.28	0.679
12/11/14 21:25	0.645	0.28	0.679
12/11/14 21:26	0.645	0.28	0.679
12/11/14 21:27	0.645	0.28	0.679
12/11/14 21:28	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 21:29	0.645	0.28	0.679
12/11/14 21:30	0.645	0.28	0.679
12/11/14 21:31	0.645	0.28	0.679
12/11/14 21:32	0.645	0.28	0.679
12/11/14 21:33	0.645	0.28	0.679
12/11/14 21:34	0.645	0.28	0.679
12/11/14 21:35	0.645	0.28	0.679
12/11/14 21:36	0.645	0.28	0.679
12/11/14 21:37	0.645	0.28	0.679
12/11/14 21:38	0.645	0.28	0.679
12/11/14 21:39	0.645	0.28	0.679
12/11/14 21:40	0.645	0.28	0.679
12/11/14 21:41	0.645	0.28	0.679
12/11/14 21:42	0.645	0.28	0.679
12/11/14 21:43	0.645	0.28	0.679
12/11/14 21:44	0.645	0.28	0.679
12/11/14 21:45	0.645	0.28	0.679
12/11/14 21:46	0.645	0.28	0.679
12/11/14 21:47	0.645	0.28	0.679
12/11/14 21:48	0.645	0.28	0.679
12/11/14 21:49	0.645	0.28	0.679
12/11/14 21:50	0.645	0.28	0.679
12/11/14 21:51	0.645	0.28	0.679
12/11/14 21:52	0.645	0.28	0.679
12/11/14 21:53	0.645	0.28	0.679
12/11/14 21:54	0.645	0.28	0.679
12/11/14 21:55	0.645	0.28	0.679
12/11/14 21:56	0.645	0.28	0.679
12/11/14 21:57	0.645	0.28	0.679
12/11/14 21:58	0.645	0.28	0.679
12/11/14 21:59	0.645	0.28	0.679
12/11/14 22:00	0.645	0.28	0.679
12/11/14 22:01	0.645	0.28	0.679
12/11/14 22:02	0.645	0.28	0.679
12/11/14 22:03	0.645	0.28	0.679
12/11/14 22:04	0.645	0.28	0.679
12/11/14 22:05	0.645	0.28	0.679
12/11/14 22:06	0.645	0.28	0.679
12/11/14 22:07	0.645	0.28	0.679
12/11/14 22:08	0.645	0.28	0.679
12/11/14 22:09	0.645	0.28	0.679
12/11/14 22:10	0.645	0.28	0.679
12/11/14 22:11	0.645	0.28	0.679
12/11/14 22:12	0.645	0.28	0.679
12/11/14 22:13	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 22:14	0.645	0.28	0.679
12/11/14 22:15	0.645	0.28	0.679
12/11/14 22:16	0.645	0.28	0.679
12/11/14 22:17	0.645	0.28	0.679
12/11/14 22:18	0.645	0.28	0.679
12/11/14 22:19	0.645	0.28	0.679
12/11/14 22:20	0.645	0.28	0.679
12/11/14 22:21	0.645	0.28	0.679
12/11/14 22:22	0.645	0.28	0.679
12/11/14 22:23	0.645	0.28	0.679
12/11/14 22:24	0.645	0.28	0.679
12/11/14 22:25	0.645	0.28	0.679
12/11/14 22:26	0.645	0.28	0.679
12/11/14 22:27	0.645	0.28	0.679
12/11/14 22:28	0.645	0.28	0.679
12/11/14 22:29	0.645	0.28	0.679
12/11/14 22:30	0.645	0.28	0.679
12/11/14 22:31	0.645	0.28	0.679
12/11/14 22:32	0.645	0.28	0.679
12/11/14 22:33	0.645	0.28	0.679
12/11/14 22:34	0.645	0.28	0.679
12/11/14 22:35	0.645	0.28	0.679
12/11/14 22:36	0.645	0.28	0.679
12/11/14 22:37	0.645	0.28	0.679
12/11/14 22:38	0.645	0.28	0.679
12/11/14 22:39	0.645	0.28	0.679
12/11/14 22:40	0.645	0.28	0.679
12/11/14 22:41	0.645	0.28	0.679
12/11/14 22:42	0.645	0.28	0.679
12/11/14 22:43	0.645	0.28	0.679
12/11/14 22:44	0.645	0.28	0.679
12/11/14 22:45	0.645	0.28	0.679
12/11/14 22:46	0.645	0.28	0.679
12/11/14 22:47	0.645	0.28	0.679
12/11/14 22:48	0.645	0.28	0.679
12/11/14 22:49	0.645	0.28	0.679
12/11/14 22:50	0.645	0.28	0.679
12/11/14 22:51	0.645	0.28	0.679
12/11/14 22:52	0.645	0.28	0.679
12/11/14 22:53	0.645	0.28	0.679
12/11/14 22:54	0.645	0.28	0.679
12/11/14 22:55	0.645	0.28	0.679
12/11/14 22:56	0.645	0.28	0.679
12/11/14 22:57	0.645	0.28	0.679
12/11/14 22:58	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 22:59	0.645	0.28	0.679
12/11/14 23:00	0.645	0.28	0.679
12/11/14 23:01	0.645	0.28	0.679
12/11/14 23:02	0.645	0.28	0.679
12/11/14 23:03	0.645	0.28	0.679
12/11/14 23:04	0.645	0.28	0.679
12/11/14 23:05	0.645	0.28	0.679
12/11/14 23:06	0.645	0.28	0.679
12/11/14 23:07	0.645	0.28	0.679
12/11/14 23:08	0.645	0.28	0.679
12/11/14 23:09	0.645	0.28	0.679
12/11/14 23:10	0.645	0.28	0.679
12/11/14 23:11	0.645	0.28	0.679
12/11/14 23:12	0.645	0.28	0.679
12/11/14 23:13	0.645	0.28	0.679
12/11/14 23:14	0.645	0.28	0.679
12/11/14 23:15	0.645	0.28	0.679
12/11/14 23:16	0.645	0.28	0.679
12/11/14 23:17	0.645	0.28	0.679
12/11/14 23:18	0.645	0.28	0.679
12/11/14 23:19	0.645	0.28	0.679
12/11/14 23:20	0.645	0.28	0.679
12/11/14 23:21	0.645	0.28	0.679
12/11/14 23:22	0.645	0.28	0.679
12/11/14 23:23	0.645	0.28	0.679
12/11/14 23:24	0.645	0.28	0.679
12/11/14 23:25	0.645	0.28	0.679
12/11/14 23:26	0.645	0.28	0.679
12/11/14 23:27	0.645	0.28	0.679
12/11/14 23:28	0.645	0.28	0.679
12/11/14 23:29	0.645	0.28	0.679
12/11/14 23:30	0.645	0.28	0.679
12/11/14 23:31	0.645	0.28	0.679
12/11/14 23:32	0.645	0.28	0.679
12/11/14 23:33	0.645	0.28	0.679
12/11/14 23:34	0.645	0.28	0.679
12/11/14 23:35	0.645	0.28	0.679
12/11/14 23:36	0.645	0.28	0.679
12/11/14 23:37	0.645	0.28	0.679
12/11/14 23:38	0.645	0.28	0.679
12/11/14 23:39	0.645	0.28	0.679
12/11/14 23:40	0.645	0.28	0.679
12/11/14 23:41	0.645	0.28	0.679
12/11/14 23:42	0.645	0.28	0.679
12/11/14 23:43	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 23:44	0.645	0.28	0.679
12/11/14 23:45	0.645	0.28	0.679
12/11/14 23:46	0.645	0.28	0.679
12/11/14 23:47	0.645	0.28	0.679
12/11/14 23:48	0.645	0.28	0.679
12/11/14 23:49	0.645	0.28	0.679
12/11/14 23:50	0.645	0.28	0.679
12/11/14 23:51	0.645	0.28	0.679
12/11/14 23:52	0.645	0.28	0.679
12/11/14 23:53	0.645	0.28	0.679
12/11/14 23:54	0.645	0.28	0.679
12/11/14 23:55	0.645	0.28	0.679
12/11/14 23:56	0.645	0.28	0.679
12/11/14 23:57	0.645	0.28	0.679
12/11/14 23:58	0.645	0.28	0.679
12/11/14 23:59	0.645	0.28	0.679
12/12/14 0:00	0.645	0.28	0.679
12/12/14 0:01	0.645	0.28	0.679
12/12/14 0:02	0.645	0.28	0.679
12/12/14 0:03	0.645	0.28	0.679
12/12/14 0:04	0.645	0.28	0.679
12/12/14 0:05	0.645	0.28	0.679
12/12/14 0:06	0.645	0.28	0.679
12/12/14 0:07	0.645	0.28	0.679
12/12/14 0:08	0.645	0.28	0.679
12/12/14 0:09	0.645	0.28	0.679
12/12/14 0:10	0.645	0.28	0.679
12/12/14 0:11	0.645	0.28	0.679
12/12/14 0:12	0.645	0.28	0.679
12/12/14 0:13	0.645	0.28	0.679
12/12/14 0:14	0.645	0.28	0.679
12/12/14 0:15	0.645	0.28	0.679
12/12/14 0:16	0.645	0.28	0.679
12/12/14 0:17	0.645	0.28	0.679
12/12/14 0:18	0.645	0.28	0.679
12/12/14 0:19	0.645	0.28	0.679
12/12/14 0:20	0.645	0.28	0.679
12/12/14 0:21	0.645	0.28	0.679
12/12/14 0:22	0.645	0.28	0.679
12/12/14 0:23	0.645	0.28	0.679
12/12/14 0:24	0.645	0.28	0.679
12/12/14 0:25	0.645	0.28	0.679
12/12/14 0:26	0.645	0.28	0.679
12/12/14 0:27	0.645	0.28	0.679
12/12/14 0:28	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 0:29	0.645	0.28	0.679
12/12/14 0:30	0.645	0.28	0.679
12/12/14 0:31	0.645	0.28	0.679
12/12/14 0:32	0.645	0.28	0.679
12/12/14 0:33	0.645	0.28	0.679
12/12/14 0:34	0.645	0.28	0.679
12/12/14 0:35	0.645	0.28	0.679
12/12/14 0:36	0.645	0.28	0.679
12/12/14 0:37	0.645	0.28	0.679
12/12/14 0:38	0.645	0.28	0.679
12/12/14 0:39	0.645	0.28	0.679
12/12/14 0:40	0.645	0.28	0.679
12/12/14 0:41	0.645	0.28	0.679
12/12/14 0:42	0.645	0.28	0.679
12/12/14 0:43	0.645	0.28	0.679
12/12/14 0:44	0.645	0.28	0.679
12/12/14 0:45	0.645	0.28	0.679
12/12/14 0:46	0.645	0.28	0.679
12/12/14 0:47	0.645	0.28	0.679
12/12/14 0:48	0.645	0.28	0.679
12/12/14 0:49	0.645	0.28	0.679
12/12/14 0:50	0.645	0.28	0.679
12/12/14 0:51	0.645	0.28	0.679
12/12/14 0:52	0.645	0.28	0.679
12/12/14 0:53	0.645	0.28	0.679
12/12/14 0:54	0.645	0.28	0.679
12/12/14 0:55	0.645	0.28	0.679
12/12/14 0:56	0.645	0.28	0.679
12/12/14 0:57	0.645	0.28	0.679
12/12/14 0:58	0.645	0.28	0.679
12/12/14 0:59	0.645	0.28	0.679
12/12/14 1:00	0.645	0.28	0.679
12/12/14 1:01	0.645	0.28	0.679
12/12/14 1:02	0.645	0.28	0.679
12/12/14 1:03	0.645	0.28	0.679
12/12/14 1:04	0.645	0.28	0.679
12/12/14 1:05	0.645	0.28	0.679
12/12/14 1:06	0.645	0.28	0.679
12/12/14 1:07	0.645	0.28	0.679
12/12/14 1:08	0.645	0.28	0.679
12/12/14 1:09	0.645	0.28	0.679
12/12/14 1:10	0.645	0.28	0.679
12/12/14 1:11	0.645	0.28	0.679
12/12/14 1:12	0.645	0.28	0.679
12/12/14 1:13	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 1:14	0.645	0.28	0.679
12/12/14 1:15	0.645	0.28	0.679
12/12/14 1:16	0.645	0.28	0.679
12/12/14 1:17	0.645	0.28	0.679
12/12/14 1:18	0.645	0.28	0.679
12/12/14 1:19	0.645	0.28	0.679
12/12/14 1:20	0.645	0.28	0.679
12/12/14 1:21	0.645	0.28	0.679
12/12/14 1:22	0.645	0.28	0.679
12/12/14 1:23	0.645	0.28	0.679
12/12/14 1:24	0.645	0.28	0.679
12/12/14 1:25	0.645	0.28	0.679
12/12/14 1:26	0.645	0.28	0.679
12/12/14 1:27	0.645	0.28	0.679
12/12/14 1:28	0.645	0.28	0.679
12/12/14 1:29	0.645	0.28	0.679
12/12/14 1:30	0.645	0.28	0.679
12/12/14 1:31	0.645	0.28	0.679
12/12/14 1:32	0.645	0.28	0.679
12/12/14 1:33	0.645	0.28	0.679
12/12/14 1:34	0.645	0.28	0.679
12/12/14 1:35	0.645	0.28	0.679
12/12/14 1:36	0.645	0.28	0.679
12/12/14 1:37	0.645	0.28	0.679
12/12/14 1:38	0.645	0.28	0.679
12/12/14 1:39	0.645	0.28	0.679
12/12/14 1:40	0.645	0.28	0.679
12/12/14 1:41	0.645	0.28	0.679
12/12/14 1:42	0.645	0.28	0.679
12/12/14 1:43	0.645	0.28	0.679
12/12/14 1:44	0.645	0.28	0.679
12/12/14 1:45	0.645	0.28	0.679
12/12/14 1:46	0.645	0.28	0.679
12/12/14 1:47	0.645	0.28	0.679
12/12/14 1:48	0.645	0.28	0.679
12/12/14 1:49	0.645	0.28	0.679
12/12/14 1:50	0.645	0.28	0.679
12/12/14 1:51	0.645	0.28	0.679
12/12/14 1:52	0.645	0.28	0.679
12/12/14 1:53	0.645	0.28	0.679
12/12/14 1:54	0.645	0.28	0.679
12/12/14 1:55	0.645	0.28	0.679
12/12/14 1:56	0.645	0.28	0.679
12/12/14 1:57	0.645	0.28	0.679
12/12/14 1:58	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 1:59	0.645	0.28	0.679
12/12/14 2:00	0.645	0.28	0.679
12/12/14 2:01	0.645	0.28	0.679
12/12/14 2:02	0.645	0.28	0.679
12/12/14 2:03	0.645	0.28	0.679
12/12/14 2:04	0.645	0.28	0.679
12/12/14 2:05	0.645	0.28	0.679
12/12/14 2:06	0.645	0.28	0.679
12/12/14 2:07	0.645	0.28	0.679
12/12/14 2:08	0.645	0.28	0.679
12/12/14 2:09	0.645	0.28	0.679
12/12/14 2:10	0.645	0.28	0.679
12/12/14 2:11	0.645	0.28	0.679
12/12/14 2:12	0.645	0.28	0.679
12/12/14 2:13	0.645	0.28	0.679
12/12/14 2:14	0.645	0.28	0.679
12/12/14 2:15	0.645	0.28	0.679
12/12/14 2:16	0.645	0.28	0.679
12/12/14 2:17	0.645	0.28	0.679
12/12/14 2:18	0.645	0.28	0.679
12/12/14 2:19	0.645	0.28	0.679
12/12/14 2:20	0.645	0.28	0.679
12/12/14 2:21	0.645	0.28	0.679
12/12/14 2:22	0.645	0.28	0.679
12/12/14 2:23	0.645	0.28	0.679
12/12/14 2:24	0.645	0.28	0.679
12/12/14 2:25	0.645	0.28	0.679
12/12/14 2:26	0.645	0.28	0.679
12/12/14 2:27	0.645	0.28	0.679
12/12/14 2:28	0.645	0.28	0.679
12/12/14 2:29	0.645	0.28	0.679
12/12/14 2:30	0.645	0.28	0.679
12/12/14 2:31	0.645	0.28	0.679
12/12/14 2:32	0.645	0.28	0.679
12/12/14 2:33	0.645	0.28	0.679
12/12/14 2:34	0.645	0.28	0.679
12/12/14 2:35	0.645	0.28	0.679
12/12/14 2:36	0.645	0.28	0.679
12/12/14 2:37	0.645	0.28	0.679
12/12/14 2:38	0.645	0.28	0.679
12/12/14 2:39	0.645	0.28	0.679
12/12/14 2:40	0.645	0.28	0.679
12/12/14 2:41	0.645	0.28	0.679
12/12/14 2:42	0.645	0.28	0.679
12/12/14 2:43	0.645	0.28	0.679

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 2:44	0.645	0.28	0.679
12/12/14 2:45	0.645	0.28	0.679
12/12/14 2:46	0.645	0.28	0.679
12/12/14 2:47	0.645	0.28	0.679
12/12/14 2:48	0.645	0.28	0.679
12/12/14 2:49	0.645	0.28	0.679
12/12/14 2:50	0.645	0.28	0.679
12/12/14 2:51	0.645	0.28	0.679
12/12/14 2:52	0.645	0.28	0.679
12/12/14 2:53	0.645	0.28	0.679
12/12/14 2:54	0.645	0.28	0.679
12/12/14 2:55	0.645	0.28	0.679
12/12/14 2:56	0.645	0.28	0.679
12/12/14 2:57	0.645	0.28	0.679
12/12/14 2:58	0.645	0.28	0.679
12/12/14 2:59	0.645	0.28	0.679
12/12/14 3:00	0.815	0.38	1.146
12/12/14 3:01	1.028	0.3	1.141
12/12/14 3:02	1.24	0.47	2.191
12/12/14 3:03	1.496	0.58	3.275
12/12/14 3:04	1.836	0.55	3.794
12/12/14 3:05	2.134	0.51	4.097
12/12/14 3:06	2.432	0.52	4.787
12/12/14 3:07	2.687	0.5	5.078
12/12/14 3:08	2.985	0.54	5.988
12/12/14 3:09	3.112	0.37	4.272
12/12/14 3:10	3.325	0.4	4.963
12/12/14 3:11	3.325	0.65	8.13
12/12/14 3:12	3.495	0.51	6.672
12/12/14 3:13	3.538	0.64	8.517
12/12/14 3:14	3.708	0.73	10.095
12/12/14 3:15	3.708	0.97	13.46
12/12/14 3:16	3.836	0.53	7.609
12/12/14 3:17	3.921	0.83	12.203
12/12/14 3:18	3.963	0.93	13.882
12/12/14 3:19	3.963	0.63	9.363
12/12/14 3:20	3.963	0.95	14.164
12/12/14 3:21	4.048	0.81	12.297
12/12/14 3:22	4.091	0.74	11.306
12/12/14 3:23	4.219	0.78	12.355
12/12/14 3:24	4.219	0.79	12.498
12/12/14 3:25	4.431	0.93	15.521
12/12/14 3:26	4.346	0.88	14.343
12/12/14 3:27	4.431	0.92	15.255
12/12/14 3:28	4.474	1.22	20.401

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 3:29	4.516	1.09	18.376
12/12/14 3:30	4.644	1.02	17.851
12/12/14 3:31	4.729	0.53	9.328
12/12/14 3:32	5.41	0.35	7.141
12/12/14 3:33	5.75	0.81	17.402
12/12/14 3:34	6.771	0.77	19.603
12/12/14 3:35	7.707	0.57	16.417
12/12/14 3:36	7.92	0.34	10.187
12/12/14 3:37	7.665	0.55	15.838
12/12/14 3:38	10.218	1.66	63.452
12/12/14 3:39	12.473	2.71	126.941
12/12/14 3:40	16.398	2.57	157.848
12/12/14 3:41	19.523	3.71	271.465
12/12/14 3:42	23.261	2.74	239.356
12/12/14 3:43	27.436	3.87	397.653
12/12/14 3:44	30.199	4.11	465.099
12/12/14 3:45	38.72	3.44	499.483
12/12/14 3:46	39.57	4.11	609.724
12/12/14 3:47	42.677	4.07	651.043
12/12/14 3:48	44.829	3.92	658.985
12/12/14 3:49	47.486	4.27	760.721
12/12/14 3:50	48.707	3.65	667.405
12/12/14 3:51	48.983	3.85	707.566
12/12/14 3:52	49.968	4.9	917.791
12/12/14 3:53	52.302	4.22	828.471
12/12/14 3:54	52.48	4.12	810.615
12/12/14 3:55	52.553	3.62	713.797
12/12/14 3:56	52.118	4.17	815.77
12/12/14 3:57	52.62	4.46	879.475
12/12/14 3:58	53.214	4.41	881.032
12/12/14 3:59	53.214	4.41	881.032
12/12/14 4:00	53.214	4.41	881.032
12/12/14 4:01	52.816	4.19	829.08
12/12/14 4:02	53.289	3.96	790.736
12/12/14 4:03	52.511	4.4	866.039
12/12/14 4:04	51.741	4.23	819.973
12/12/14 4:05	50.871	4.43	844.141
12/12/14 4:06	50.778	4.54	864.883
12/12/14 4:07	49.835	4.48	837.609
12/12/14 4:08	49.737	3.96	738.592
12/12/14 4:09	48.823	4.25	778.841
12/12/14 4:10	48.486	4.86	882.931
12/12/14 4:11	47.697	4.31	770.361
12/12/14 4:12	47.106	4	706.409
12/12/14 4:13	47.106	4	706.409

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 4:14	47.106	4	706.409
12/12/14 4:15	47.106	4	706.409
12/12/14 4:16	45.461	4.12	702.538
12/12/14 4:17	43.091	4	645.714
12/12/14 4:18	42.529	4.38	698.215
12/12/14 4:19	42.542	4.04	643.88
12/12/14 4:20	40.91	3.59	550.288
12/12/14 4:21	39.349	3.49	515.128
12/12/14 4:22	40.332	4.02	510.2393
12/12/14 4:23	40.332	4.02	505.3506
12/12/14 4:24	40.332	4.02	500.4619
12/12/14 4:25	40.332	4.02	495.5731
12/12/14 4:26	40.332	4.02	490.6844
12/12/14 4:27	40.332	4.02	485.7957
12/12/14 4:28	40.332	4.02	480.907
12/12/14 4:29	40.332	4.02	476.0183
12/12/14 4:30	40.332	4.02	471.1296
12/12/14 4:31	40.332	4.02	466.2409
12/12/14 4:32	40.332	4.02	461.3521
12/12/14 4:33	40.332	4.02	456.4634
12/12/14 4:34	36.371	3.78	451.5747
12/12/14 4:35	30.931	3.85	446.686
12/12/14 4:36	30.975	3.09	358.923
12/12/14 4:37	31.032	3.39	394.258
12/12/14 4:38	30.338	3.98	452.914
12/12/14 4:39	29.347	3.65	401.909
12/12/14 4:40	28.94	3.74	406.311
12/12/14 4:41	28.514	3.39	362.49
12/12/14 4:42	27.677	3.68	382.152
12/12/14 4:43	28.318	3.42	362.757
12/12/14 4:44	28.318	3.42	362.757
12/12/14 4:45	28.318	3.42	362.757
12/12/14 4:46	28.318	3.42	362.757
12/12/14 4:47	28.318	3.42	362.757
12/12/14 4:48	28.318	3.42	362.757
12/12/14 4:49	28.318	3.42	362.757
12/12/14 4:50	28.318	3.42	362.757
12/12/14 4:51	26.93	3.46	349.924
12/12/14 4:52	25.605	3.53	339.044
12/12/14 4:53	25.506	3.36	321.089
12/12/14 4:54	25.45	3.43	327.731
12/12/14 4:55	25.357	3.72	354.107
12/12/14 4:56	24.976	3.52	330.057
12/12/14 4:57	24.976	3.52	330.057
12/12/14 4:58	24.976	3.52	330.057

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 4:59	24.976	3.52	330.057
12/12/14 5:00	24.976	3.52	330.057
12/12/14 5:01	24.976	3.52	330.057
12/12/14 5:02	24.545	3.4	312.862
12/12/14 5:03	24.768	3.47	322.667
12/12/14 5:04	24.098	3.93	355.509
12/12/14 5:05	24.261	3.58	325.619
12/12/14 5:06	23.975	3.57	320.965
12/12/14 5:07	24.311	3.16	288.181
12/12/14 5:08	23.958	3.56	319.752
12/12/14 5:09	24.392	3.83	350.415
12/12/14 5:10	23.832	2.65	236.478
12/12/14 5:11	23.6	3.45	305.769
12/12/14 5:12	23.792	3.41	304.506
12/12/14 5:13	23.773	3.15	280.82
12/12/14 5:14	23.443	3.42	300.389
12/12/14 5:15	23.945	3.56	319.218
12/12/14 5:16	23.581	3.56	314.546
12/12/14 5:17	23.582	3.52	311.109
12/12/14 5:18	23.582	3.52	311.109
12/12/14 5:19	23.582	3.52	311.109
12/12/14 5:20	23.582	3.52	311.109
12/12/14 5:21	23.582	3.52	311.109
12/12/14 5:22	23.582	3.52	311.109
12/12/14 5:23	23.582	3.52	311.109
12/12/14 5:24	23.582	3.52	311.109
12/12/14 5:25	23.582	3.52	311.109
12/12/14 5:26	23.582	3.52	311.109
12/12/14 5:27	23.582	3.52	311.109
12/12/14 5:28	23.582	3.52	311.109
12/12/14 5:29	23.582	3.52	311.109
12/12/14 5:30	23.582	3.52	311.109
12/12/14 5:31	23.582	3.52	311.109
12/12/14 5:32	22.99	3.51	302.775
12/12/14 5:33	22.24	3.99	332.69
12/12/14 5:34	22.116	3.76	311.59
12/12/14 5:35	21.991	3.27	269.742
12/12/14 5:36	21.841	3.31	271.178
12/12/14 5:37	21.941	3.31	272.254
12/12/14 5:38	21.812	3.9	318.755
12/12/14 5:39	22.075	3.83	317.053
12/12/14 5:40	22.003	3.24	267.578
12/12/14 5:41	21.74	3.49	284.765
12/12/14 5:42	21.724	3.65	297.675
12/12/14 5:43	21.541	3.45	279.008

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 5:44	21.579	3.45	279.502
12/12/14 5:45	21.67	3.41	277.347
12/12/14 5:46	21.443	3.69	296.634
12/12/14 5:47	21.882	3.59	294.664
12/12/14 5:48	21.667	3.76	305.262
12/12/14 5:49	21.895	3.57	293.36
12/12/14 5:50	21.583	3.68	297.526
12/12/14 5:51	21.593	3.49	282.602
12/12/14 5:52	21.593	3.49	282.602
12/12/14 5:53	21.593	3.49	282.602
12/12/14 5:54	21.593	3.49	282.602
12/12/14 5:55	21.593	3.49	282.602
12/12/14 5:56	21.593	3.49	282.602
12/12/14 5:57	21.593	3.49	282.602
12/12/14 5:58	21.25	3.58	285.606
12/12/14 5:59	21.348	3.71	297.325
12/12/14 6:00	21.483	3.61	290.579
12/12/14 6:01	21.483	3.61	290.579
12/12/14 6:02	21.483	3.61	290.579
12/12/14 6:03	21.483	3.61	290.579
12/12/14 6:04	21.483	3.61	290.579
12/12/14 6:05	21.483	3.61	290.579
12/12/14 6:06	21.4	3.7	296.759
12/12/14 6:07	21.538	3.6	290.678
12/12/14 6:08	21.478	3.61	290.443
12/12/14 6:09	21.349	3.62	289.815
12/12/14 6:10	21.1	3.8	300.915
12/12/14 6:11	21.054	3.66	288.814
12/12/14 6:12	21.415	3.6	288.701
12/12/14 6:13	21.174	3.76	298.634
12/12/14 6:14	21.078	3.46	273.726
12/12/14 6:15	21.072	3.4	268.358
12/12/14 6:16	20.66	3.72	288.356
12/12/14 6:17	20.805	3.93	306.932
12/12/14 6:18	20.921	3.58	281.101
12/12/14 6:19	20.984	3.76	295.711
12/12/14 6:20	20.936	3.78	296.529
12/12/14 6:21	20.504	3.51	270.034
12/12/14 6:22	20.837	3.9	304.895
12/12/14 6:23	20.631	3.71	286.87
12/12/14 6:24	20.544	3.62	279.192
12/12/14 6:25	20.379	3.58	273.813
12/12/14 6:26	20.02	3.97	298.122
12/12/14 6:27	20.491	3.97	305.142
12/12/14 6:28	20.232	3.46	262.664

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 6:29	20.043	3.63	272.764
12/12/14 6:30	20.001	3.55	266.27
12/12/14 6:31	20.005	3.47	260.017
12/12/14 6:32	19.712	3.69	273.139
12/12/14 6:33	19.73	3.4	251.554
12/12/14 6:34	19.598	3.4	249.944
12/12/14 6:35	19.641	3.68	271.189
12/12/14 6:36	19.937	3.39	253.295
12/12/14 6:37	19.677	3.6	265.498
12/12/14 6:38	19.814	3.88	288.664
12/12/14 6:39	19.471	3.41	248.984
12/12/14 6:40	19.753	3.59	265.549
12/12/14 6:41	19.412	3.68	268.18
12/12/14 6:42	19.81	3.66	271.668
12/12/14 6:43	19.585	3.45	253.308
12/12/14 6:44	19.492	3.96	289.529
12/12/14 6:45	19.891	3.58	266.742
12/12/14 6:46	19.549	3.43	251.813
12/12/14 6:47	19.826	3.69	274.641
12/12/14 6:48	19.985	3.61	270.54
12/12/14 6:49	19.947	3.75	280.28
12/12/14 6:50	19.881	3.24	241.922
12/12/14 6:51	19.401	3.62	263.51
12/12/14 6:52	19.399	3.66	266.181
12/12/14 6:53	19.841	3.67	272.99
12/12/14 6:54	20.101	3.58	269.705
12/12/14 6:55	20.188	3.92	297.141
12/12/14 6:56	20.258	3.71	281.688
12/12/14 6:57	20.033	3.6	270.525
12/12/14 6:58	20.198	3.29	249.422
12/12/14 6:59	19.933	3.86	288.228
12/12/14 7:00	20.27	3.46	263.38
12/12/14 7:01	20.095	3.31	249.502
12/12/14 7:02	20.068	3.52	264.603
12/12/14 7:03	20.543	3.67	283.109
12/12/14 7:04	20.104	3.76	283.236
12/12/14 7:05	20.225	3.68	279.263
12/12/14 7:06	20.389	3.63	277.169
12/12/14 7:07	20.628	3.96	306.172
12/12/14 7:08	20.13	3.5	264.435
12/12/14 7:09	20.197	3.5	265.311
12/12/14 7:10	20.392	3.7	282.705
12/12/14 7:11	20.369	3.69	281.777
12/12/14 7:12	20.323	3.67	279.614
12/12/14 7:13	20.484	3.56	273.691

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 7:14	20.436	3.69	282.483
12/12/14 7:15	20.492	3.38	259.499
12/12/14 7:16	20.013	3.72	279.48
12/12/14 7:17	20.296	3.66	278.56
12/12/14 7:18	20.437	3.62	277.283
12/12/14 7:19	20.419	3.53	270.444
12/12/14 7:20	20.423	3.52	269.349
12/12/14 7:21	20.161	3.77	285.021
12/12/14 7:22	20.529	3.6	277.374
12/12/14 7:23	20.071	3.62	272.244
12/12/14 7:24	20.248	3.65	277.143
12/12/14 7:25	20.092	3.34	251.357
12/12/14 7:26	19.697	3.47	256.082
12/12/14 7:27	20.138	3.27	247.096
12/12/14 7:28	19.711	3.68	271.785
12/12/14 7:29	19.381	3.63	264.191
12/12/14 7:30	19.83	3.56	264.365
12/12/14 7:31	19.156	3.59	257.679
12/12/14 7:32	19.639	3.69	271.826
12/12/14 7:33	19.473	3.35	244.479
12/12/14 7:34	18.894	3.58	253.648
12/12/14 7:35	19.508	3.5	256.19
12/12/14 7:36	19.133	3.62	259.369
12/12/14 7:37	19.396	3.46	251.737
12/12/14 7:38	19.285	3.33	240.961
12/12/14 7:39	19.014	3.79	269.883
12/12/14 7:40	19.217	3.35	241.051
12/12/14 7:41	18.552	3.43	238.764
12/12/14 7:42	18.676	3.45	241.481
12/12/14 7:43	18.683	3.17	222.236
12/12/14 7:44	18.247	3.33	227.717
12/12/14 7:45	18.204	3.45	235.31
12/12/14 7:46	18.087	3.44	233.187
12/12/14 7:47	17.938	3.54	237.992
12/12/14 7:48	17.872	3.36	225.462
12/12/14 7:49	17.837	3.34	223.143
12/12/14 7:50	17.442	3.32	217.019
12/12/14 7:51	17.604	3.61	238.511
12/12/14 7:52	17.736	3.53	234.712
12/12/14 7:53	17.741	3.33	221.738
12/12/14 7:54	17.355	3.43	223.102
12/12/14 7:55	17.313	3.5	227.229
12/12/14 7:56	17.09	3.43	219.623
12/12/14 7:57	16.844	3.46	218.807
12/12/14 7:58	16.946	3.32	211.167

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 7:59	16.074	3.7	223.033
12/12/14 8:00	16.413	3.34	205.453
12/12/14 8:01	16.124	3.36	203.219
12/12/14 8:02	16.219	3.07	186.783
12/12/14 8:03	16.047	0.67	185.4016
12/12/14 8:04	15.834	0.86	184.0202
12/12/14 8:05	15.749	0.45	182.6387
12/12/14 8:06	15.621	0.69	181.2573
12/12/14 8:07	15.366	0.44	179.8759
12/12/14 8:08	15.408	0.76	178.4945
12/12/14 8:09	15.111	0.61	177.1131
12/12/14 8:10	15.068	0.64	175.7316
12/12/14 8:11	15.111	0.48	174.3502
12/12/14 8:12	14.94	0.56	172.9688
12/12/14 8:13	14.77	0.51	171.5874
12/12/14 8:14	14.685	0	170.2059
12/12/14 8:15	14.685	0.51	168.8245
12/12/14 8:16	14.387	0.51	167.4431
12/12/14 8:17	14.26	0.66	166.0617
12/12/14 8:18	14.26	0.61	164.6803
12/12/14 8:19	13.962	0.62	163.2988
12/12/14 8:20	14.089	0.48	161.9174
12/12/14 8:21	13.877	3.09	160.536
12/12/14 8:22	13.968	3.27	171.024
12/12/14 8:23	14.134	2.99	158.423
12/12/14 8:24	13.67	3.21	164.399
12/12/14 8:25	13.853	3.13	162.699
12/12/14 8:26	13.521	3.13	158.959
12/12/14 8:27	13.778	3.06	157.998
12/12/14 8:28	13.318	2.85	142.386
12/12/14 8:29	13.438	3.34	168.06
12/12/14 8:30	13.357	3.11	155.724
12/12/14 8:31	12.873	3.27	157.997
12/12/14 8:32	12.861	2.74	132.051
12/12/14 8:33	12.707	3.02	144
12/12/14 8:34	12.612	3.06	144.676
12/12/14 8:35	12.448	3.05	142.373
12/12/14 8:36	12.733	3.03	144.633
12/12/14 8:37	12.624	2.81	132.886
12/12/14 8:38	12.288	2.73	126.024
12/12/14 8:39	12.408	2.6	120.788
12/12/14 8:40	12.133	2.62	119.386
12/12/14 8:41	12.289	2.93	135.076
12/12/14 8:42	12.058	2.86	129.091
12/12/14 8:43	12.245	2.65	121.589

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 8:44	11.943	2.65	118.91
12/12/14 8:45	11.989	2.71	121.747
12/12/14 8:46	12.013	2.72	122.664
12/12/14 8:47	11.807	2.94	130.301
12/12/14 8:48	11.862	2.72	121.086
12/12/14 8:49	11.849	2.71	120.546
12/12/14 8:50	11.632	2.86	124.753
12/12/14 8:51	11.698	2.57	112.693
12/12/14 8:52	11.61	2.83	123.255
12/12/14 8:53	11.727	2.74	120.366
12/12/14 8:54	11.558	2.71	117.281
12/12/14 8:55	11.374	2.64	112.555
12/12/14 8:56	11.429	2.7	115.587
12/12/14 8:57	11.327	2.85	121.142
12/12/14 8:58	11.311	2.63	111.557
12/12/14 8:59	11.127	2.77	115.58
12/12/14 9:00	11.189	2.83	118.622
12/12/14 9:01	11.3	2.58	109.285
12/12/14 9:02	11.061	2.68	111.375
12/12/14 9:03	11.066	2.43	101.008
12/12/14 9:04	11.069	2.69	111.655
12/12/14 9:05	11.239	2.78	117.29
12/12/14 9:06	11.408	2.84	121.324
12/12/14 9:07	11.389	2.89	123.43
12/12/14 9:08	11.541	2.88	124.859
12/12/14 9:09	11.794	2.85	126.048
12/12/14 9:10	11.906	2.87	128.317
12/12/14 9:11	12.342	2.99	138.526
12/12/14 9:12	12.566	2.71	127.651
12/12/14 9:13	12.907	2.9	140.456
12/12/14 9:14	13.376	3.06	153.437
12/12/14 9:15	13.574	3.13	159.169
12/12/14 9:16	13.859	3.42	177.747
12/12/14 9:17	14.756	3.09	170.823
12/12/14 9:18	15.118	3.3	187.028
12/12/14 9:19	15.936	3.42	204.619
12/12/14 9:20	16.375	3.47	212.894
12/12/14 9:21	17.032	3.62	231.406
12/12/14 9:22	17.783	3.37	224.464
12/12/14 9:23	17.625	3.32	219.436
12/12/14 9:24	18.541	3.32	230.555
12/12/14 9:25	18.98	3.27	232.53
12/12/14 9:26	19.113	3.08	220.465
12/12/14 9:27	18.985	3.08	218.989
12/12/14 9:28	19.865	3.13	232.796

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 9:29	20.382	2.96	226.544
12/12/14 9:30	21.094	3.67	289.989
12/12/14 9:31	21.163	3.52	279.197
12/12/14 9:32	21.948	3.81	313.5
12/12/14 9:33	22.844	3.34	285.865
12/12/14 9:34	23.356	3.79	331.775
12/12/14 9:35	24.069	3.83	345.233
12/12/14 9:36	24.596	3.62	334.07
12/12/14 9:37	25.313	3.95	375.331
12/12/14 9:38	27.461	3.66	376.702
12/12/14 9:39	27.366	3.9	400.437
12/12/14 9:40	28.675	3.72	400.558
12/12/14 9:41	28.158	4.11	434.513
12/12/14 9:42	29.902	4.13	463.219
12/12/14 9:43	29.988	3.8	427.322
12/12/14 9:44	30.982	3.36	389.792
12/12/14 9:45	30.342	3.9	444.319
12/12/14 9:46	30.886	4.15	481.123
12/12/14 9:47	31.436	3.61	426.034
12/12/14 9:48	31.709	4.01	477.425
12/12/14 9:49	31.47	3.95	466.5
12/12/14 9:50	30.965	3.86	448.678
12/12/14 9:51	31.29	3.72	437.089
12/12/14 9:52	31.061	4.36	507.49
12/12/14 9:53	31.386	3.92	461.725
12/12/14 9:54	31.575	3.73	441.413
12/12/14 9:55	30.934	3.47	402.184
12/12/14 9:56	29.924	3.95	443.249
12/12/14 9:57	30.735	3.96	456.649
12/12/14 9:58	30.656	3.87	444.78
12/12/14 9:59	29.593	4.24	469.978
12/12/14 10:00	30.055	3.9	439.101
12/12/14 10:01	29.478	3.7	409.335
12/12/14 10:02	28.966	3.82	414.611
12/12/14 10:03	28.251	3.99	423.024
12/12/14 10:04	27.989	3.76	394.651
12/12/14 10:05	27.502	3.71	382.316
12/12/14 10:06	26.925	4.05	408.829
12/12/14 10:07	26.015	3.56	346.907
12/12/14 10:08	25.752	3.58	345.909
12/12/14 10:09	24.912	3.5	326.975
12/12/14 10:10	24.669	3.69	341.638
12/12/14 10:11	24.529	3.52	323.872
12/12/14 10:12	23.723	3.37	299.798
12/12/14 10:13	22.941	3.38	290.775

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 10:14	22.737	3.6	306.782
12/12/14 10:15	22.494	3.27	275.833
12/12/14 10:16	21.733	3.4	277.183
12/12/14 10:17	21.149	3.39	268.62
12/12/14 10:18	20.574	3.17	244.574
12/12/14 10:19	20.444	3.61	276.68
12/12/14 10:20	20.202	3.51	266.057
12/12/14 10:21	19.393	3.4	247.109
12/12/14 10:22	19.242	3.42	246.638
12/12/14 10:23	18.635	3.48	243.465
12/12/14 10:24	18.742	3.33	233.898
12/12/14 10:25	18.544	3.51	244.299
12/12/14 10:26	17.776	3.25	216.448
12/12/14 10:27	17.87	3.54	237.357
12/12/14 10:28	17.236	3.03	195.91
12/12/14 10:29	16.71	3.34	209.1
12/12/14 10:30	16.974	3.08	195.861
12/12/14 10:31	16.432	3.04	187.514
12/12/14 10:32	16.204	2.92	177.56
12/12/14 10:33	15.81	3.24	192.328
12/12/14 10:34	15.869	2.82	167.754
12/12/14 10:35	15.381	2.82	162.538
12/12/14 10:36	15.253	3.18	181.833
12/12/14 10:37	14.902	3.25	181.732
12/12/14 10:38	14.782	3.15	174.506
12/12/14 10:39	14.652	2.88	158.294
12/12/14 10:40	14.388	3.1	166.986
12/12/14 10:41	14.398	3.18	171.861
12/12/14 10:42	14.267	2.87	153.285
12/12/14 10:43	13.997	2.82	147.918
12/12/14 10:44	13.679	3.16	161.989
12/12/14 10:45	13.533	3.06	155.087
12/12/14 10:46	13.615	2.75	140.251
12/12/14 10:47	13.562	2.62	133.041
12/12/14 10:48	12.78	2.85	136.393
12/12/14 10:49	12.968	2.76	134.071
12/12/14 10:50	12.758	2.8	133.862
12/12/14 10:51	12.904	2.66	128.958
12/12/14 10:52	12.589	2.79	131.618
12/12/14 10:53	12.516	2.94	137.853
12/12/14 10:54	12.455	2.31	108.036
12/12/14 10:55	12.09	2.54	115.11
12/12/14 10:56	11.852	2.54	112.845
12/12/14 10:57	12.15	2.52	114.906
12/12/14 10:58	11.844	2.3	102.246

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 10:59	11.749	1.52	67.148
12/12/14 11:00	11.664	1.52	66.661
12/12/14 11:01	11.409	2.62	112.094
12/12/14 11:02	11.156	2.63	110.021
12/12/14 11:03	11.283	2.52	106.709
12/12/14 11:04	10.908	2.11	86.271
12/12/14 11:05	11.196	2.59	108.66
12/12/14 11:06	11.193	2.6	109.301
12/12/14 11:07	10.703	2.49	99.86
12/12/14 11:08	10.728	2.69	108.101
12/12/14 11:09	10.516	2.67	105.445
12/12/14 11:10	10.636	2.55	101.547
12/12/14 11:11	10.579	2.62	103.896
12/12/14 11:12	10.696	2.53	101.402
12/12/14 11:13	10.315	2.51	97.132
12/12/14 11:14	10.265	2.64	101.818
12/12/14 11:15	10.453	2.53	99.171
12/12/14 11:16	10.189	2.56	97.963
12/12/14 11:17	10.246	2.5	95.983
12/12/14 11:18	10.048	2.68	100.827
12/12/14 11:19	10.084	2.3	86.896
12/12/14 11:20	9.877	2.56	94.637
12/12/14 11:21	9.987	2.29	85.839
12/12/14 11:22	9.75	2.55	93.158
12/12/14 11:23	9.729	2.3	83.8
12/12/14 11:24	9.452	2.24	79.325
12/12/14 11:25	9.58	2.41	86.647
12/12/14 11:26	9.367	2.45	85.987
12/12/14 11:27	9.452	2.6	92.014
12/12/14 11:28	9.325	2.34	81.964
12/12/14 11:29	9.239	2.37	82.147
12/12/14 11:30	9.197	2.24	77.389
12/12/14 11:31	9.197	2.1	72.423
12/12/14 11:32	9.069	2.35	79.784
12/12/14 11:33	8.941	2.22	74.503
12/12/14 11:34	8.856	1.99	65.957
12/12/14 11:35	8.814	2.23	73.77
12/12/14 11:36	8.643	2.31	74.777
12/12/14 11:37	8.686	2.14	69.575
12/12/14 11:38	8.558	2.21	70.896
12/12/14 11:39	8.643	2.23	72.314
12/12/14 11:40	8.601	2.09	67.345
12/12/14 11:41	8.473	2.26	71.938
12/12/14 11:42	8.303	2.06	64.204
12/12/14 11:43	8.388	2.18	68.448

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 11:44	8.388	2.26	70.964
12/12/14 11:45	8.218	2.12	65.333
12/12/14 11:46	8.175	2.11	64.719
12/12/14 11:47	8.218	2.15	66.258
12/12/14 11:48	8.09	2.1	63.56
12/12/14 11:49	8.048	2.28	68.869
12/12/14 11:50	8.005	1.86	55.867
12/12/14 11:51	8.005	1.57	47.131
12/12/14 11:52	7.75	2.01	58.387
12/12/14 11:53	7.75	1.55	45.134
12/12/14 11:54	7.835	1.4	41.222
12/12/14 11:55	7.75	1.96	56.817
12/12/14 11:56	7.58	1.56	44.228
12/12/14 11:57	7.707	1.13	32.66
12/12/14 11:58	7.367	1.15	31.826
12/12/14 11:59	7.537	1.73	49.011
12/12/14 12:00	7.452	0.96	26.884
12/12/14 12:01	7.452	0.23	6.428
12/12/14 12:02	7.41	1.41	39.29
12/12/14 12:03	7.239	0.47	12.814
12/12/14 12:04	7.197	1.2	32.494
12/12/14 12:05	7.197	1.41	38.081
12/12/14 12:06	7.239	1.48	40.043
12/12/14 12:07	7.154	1.48	39.68
12/12/14 12:08	6.984	0	0
12/12/14 12:09	6.942	0.97	25.146
12/12/14 12:10	6.942	1.21	31.576
12/12/14 12:11	6.942	0.88	22.803
12/12/14 12:12	6.942	1.62	42.196
12/12/14 12:13	6.771	0.22	5.485
12/12/14 12:14	6.814	1.51	38.712
12/12/14 12:15	6.686	1.48	37.209
12/12/14 12:16	6.729	1.21	30.482
12/12/14 12:17	6.686	1.35	33.774
12/12/14 12:18	6.601	0.99	24.482
12/12/14 12:19	6.601	1.21	29.854
12/12/14 12:20	6.516	1.43	34.992
12/12/14 12:21	6.389	1.34	32.03
12/12/14 12:22	6.474	0.26	6.336
12/12/14 12:23	6.431	1.38	33.232
12/12/14 12:24	6.474	1.24	30.029
12/12/14 12:25	6.346	0.35	8.258
12/12/14 12:26	6.389	1.35	32.414
12/12/14 12:27	6.176	1.19	27.467
12/12/14 12:28	6.346	1.28	30.58

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 12:29	6.218	1.23	28.775
12/12/14 12:30	6.176	1.39	32.191
12/12/14 12:31	6.133	1.36	31.21
12/12/14 12:32	6.218	1.29	30.128
12/12/14 12:33	6.048	1.1	24.994
12/12/14 12:34	6.091	1.1	25.124
12/12/14 12:35	6.176	1.24	28.81
12/12/14 12:36	6.048	1.23	27.874
12/12/14 12:37	5.963	1.28	28.6
12/12/14 12:38	6.006	1.23	27.611
12/12/14 12:39	5.963	1.28	28.623
12/12/14 12:40	5.92	1.25	27.641
12/12/14 12:41	6.006	1.16	26.237
12/12/14 12:42	5.835	1.12	24.399
12/12/14 12:43	5.878	1.13	24.864
12/12/14 12:44	5.835	1.1	24.049
12/12/14 12:45	5.793	1.03	22.462
12/12/14 12:46	5.878	0.95	20.962
12/12/14 12:47	5.835	1.08	23.655
12/12/14 12:48	5.793	1	21.745
12/12/14 12:49	5.708	1.15	24.551
12/12/14 12:50	5.708	1.22	26.027
12/12/14 12:51	5.665	1.12	23.773
12/12/14 12:52	5.623	1.25	26.314
12/12/14 12:53	5.708	1.27	27.247
12/12/14 12:54	5.665	1.37	29.02
12/12/14 12:55	5.623	1.28	26.947
12/12/14 12:56	5.58	1.23	25.759
12/12/14 12:57	5.623	1.25	26.398
12/12/14 12:58	5.58	1.16	24.315
12/12/14 12:59	5.538	1.19	24.711
12/12/14 13:00	5.538	1.24	25.729
12/12/14 13:01	5.495	1.29	26.603
12/12/14 13:02	5.41	1.1	22.357
12/12/14 13:03	5.452	1.29	26.417
12/12/14 13:04	5.41	1.26	25.623
12/12/14 13:05	5.452	1.18	24.168
12/12/14 13:06	5.41	1.28	25.968
12/12/14 13:07	5.325	1.23	24.601
12/12/14 13:08	5.367	1.15	23.247
12/12/14 13:09	5.325	0.99	19.729
12/12/14 13:10	5.367	1.23	24.817
12/12/14 13:11	5.325	1.2	23.902
12/12/14 13:12	5.282	1.11	21.948
12/12/14 13:13	5.325	1.25	24.98

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 13:14	5.325	1.18	23.662
12/12/14 13:15	5.24	1.1	21.516
12/12/14 13:16	5.24	1.25	24.542
12/12/14 13:17	5.197	1.21	23.563
12/12/14 13:18	5.155	1	19.33
12/12/14 13:19	5.197	1.04	20.269
12/12/14 13:20	5.24	1	19.728
12/12/14 13:21	5.155	1.04	20.2
12/12/14 13:22	5.197	1.03	20.094
12/12/14 13:23	5.07	1.27	24.201
12/12/14 13:24	5.112	1.2	23.081
12/12/14 13:25	5.07	1.25	23.802
12/12/14 13:26	5.027	1.07	20.209
12/12/14 13:27	5.07	1.23	23.326
12/12/14 13:28	5.027	0.98	18.55
12/12/14 13:29	4.942	1.08	19.922
12/12/14 13:30	4.984	1.05	19.682
12/12/14 13:31	4.984	1.16	21.72
12/12/14 13:32	4.899	1.16	21.276
12/12/14 13:33	4.942	1.22	22.683
12/12/14 13:34	4.942	1.08	20.052
12/12/14 13:35	4.942	1.19	21.979
12/12/14 13:36	4.814	0.87	15.779
12/12/14 13:37	4.942	1.12	20.793
12/12/14 13:38	4.857	0.94	17.084
12/12/14 13:39	4.814	1.09	19.624
12/12/14 13:40	4.814	1.1	19.913
12/12/14 13:41	4.729	1.18	20.944
12/12/14 13:42	4.687	1.09	19.086
12/12/14 13:43	4.729	0.9	16.05
12/12/14 13:44	4.772	1.08	19.29
12/12/14 13:45	4.687	0.97	17.013
12/12/14 13:46	4.687	0.98	17.223
12/12/14 13:47	4.687	1.04	18.313
12/12/14 13:48	4.644	0.82	14.281
12/12/14 13:49	4.602	0.99	17.014
12/12/14 13:50	4.687	1.02	17.962
12/12/14 13:51	4.559	1.11	19.045
12/12/14 13:52	4.559	1.05	17.985
12/12/14 13:53	4.516	1.12	19.037
12/12/14 13:54	4.516	1.1	18.698
12/12/14 13:55	4.602	1.09	18.757
12/12/14 13:56	4.559	1.06	18.071
12/12/14 13:57	4.516	0.96	16.31
12/12/14 13:58	4.516	1.13	19.071

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 13:59	4.559	0.96	16.447
12/12/14 14:00	4.516	0.95	16.039
12/12/14 14:01	4.474	1.04	17.448
12/12/14 14:02	4.474	0.94	15.737
12/12/14 14:03	4.516	1.22	20.578
12/12/14 14:04	4.431	1.01	16.767
12/12/14 14:05	4.516	0.95	16.09
12/12/14 14:06	4.474	1.08	18.17
12/12/14 14:07	4.474	1.04	17.482
12/12/14 14:08	4.474	0.87	14.646
12/12/14 14:09	4.474	0.95	15.888
12/12/14 14:10	4.389	0.96	15.783
12/12/14 14:11	4.389	1.06	17.38
12/12/14 14:12	4.431	1.02	16.983
12/12/14 14:13	4.431	0.96	16.003
12/12/14 14:14	4.431	0.82	13.56
12/12/14 14:15	4.474	1.05	17.666
12/12/14 14:16	4.431	1.1	18.213
12/12/14 14:17	4.389	0.99	16.211
12/12/14 14:18	4.389	0.98	16.08
12/12/14 14:19	4.389	0.98	16.063
12/12/14 14:20	4.431	1.06	17.615
12/12/14 14:21	4.346	1.01	16.413
12/12/14 14:22	4.346	0.88	14.261
12/12/14 14:23	4.346	0.94	15.353
12/12/14 14:24	4.346	1.01	16.478
12/12/14 14:25	4.261	0.98	15.644
12/12/14 14:26	4.261	0.88	14.142
12/12/14 14:27	4.261	0.95	15.196
12/12/14 14:28	4.304	0.98	15.784
12/12/14 14:29	4.134	0.73	11.254
12/12/14 14:30	4.219	0.78	12.324
12/12/14 14:31	4.261	0.87	13.95
12/12/14 14:32	4.219	0.94	14.871
12/12/14 14:33	4.176	0.8	12.591
12/12/14 14:34	4.134	0.95	14.803
12/12/14 14:35	4.134	0.84	13.021
12/12/14 14:36	4.134	0.95	14.803
12/12/14 14:37	4.048	0.57	8.729
12/12/14 14:38	4.134	0.85	13.176
12/12/14 14:39	4.091	0.92	14.16
12/12/14 14:40	4.006	0.72	10.801
12/12/14 14:41	4.006	0.91	13.685
12/12/14 14:42	4.006	0.91	13.64
12/12/14 14:43	4.006	0.91	13.61

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 14:44	3.921	0.99	14.541
12/12/14 14:45	3.963	0.62	9.259
12/12/14 14:46	3.963	0.86	12.812
12/12/14 14:47	3.963	0.76	11.37
12/12/14 14:48	3.963	0.83	12.395
12/12/14 14:49	3.878	0.98	14.209
12/12/14 14:50	3.921	0.8	11.777
12/12/14 14:51	3.963	0.66	9.78
12/12/14 14:52	4.006	1	15.067
12/12/14 14:53	4.048	0.93	14.043
12/12/14 14:54	4.048	0.94	14.331
12/12/14 14:55	4.091	0.63	9.726
12/12/14 14:56	4.176	1.07	16.772
12/12/14 14:57	4.176	0.96	14.987
12/12/14 14:58	4.219	0.92	14.507
12/12/14 14:59	4.219	0.96	15.124
12/12/14 15:00	4.261	1.02	16.267
12/12/14 15:01	4.219	0.96	15.266
12/12/14 15:02	4.261	1.01	16.203
12/12/14 15:03	4.176	0.96	14.971
12/12/14 15:04	4.134	0.94	14.524
12/12/14 15:05	4.176	0.8	12.45
12/12/14 15:06	4.134	0.64	9.967
12/12/14 15:07	4.134	0.9	13.889
12/12/14 15:08	4.091	0.85	13.086
12/12/14 15:09	4.048	0.92	14.028
12/12/14 15:10	3.963	0.67	9.913
12/12/14 15:11	3.963	0.84	12.47
12/12/14 15:12	3.878	0.87	12.667
12/12/14 15:13	3.878	0.62	8.944
12/12/14 15:14	3.836	0.91	13.089
12/12/14 15:15	3.836	0.57	8.228
12/12/14 15:16	3.793	0.61	8.72
12/12/14 15:17	3.751	0.85	11.983
12/12/14 15:18	3.708	0.7	9.734
12/12/14 15:19	3.623	0.79	10.747
12/12/14 15:20	3.623	0.5	6.793
12/12/14 15:21	3.58	0.44	5.908
12/12/14 15:22	3.58	0.53	7.103
12/12/14 15:23	3.538	0.36	4.75
12/12/14 15:24	3.495	0.63	8.232
12/12/14 15:25	3.495	0.52	6.868
12/12/14 15:26	3.453	0.82	10.63
12/12/14 15:27	3.41	0.78	9.949
12/12/14 15:28	3.453	0.54	6.992

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 15:29	3.453	0.76	9.789
12/12/14 15:30	3.41	0.63	8.018
12/12/14 15:31	3.41	0.58	7.481
12/12/14 15:32	3.325	0.75	9.352
12/12/14 15:33	3.325	0.77	9.601
12/12/14 15:34	3.283	0.53	6.573
12/12/14 15:35	3.325	0.65	8.055
12/12/14 15:36	3.283	0.46	5.699
12/12/14 15:37	3.325	0.74	9.252
12/12/14 15:38	3.283	0.63	7.792
12/12/14 15:39	3.283	0.72	8.888
12/12/14 15:40	3.24	0.56	6.78
12/12/14 15:41	3.24	0.64	7.728
12/12/14 15:42	3.198	0.69	8.334
12/12/14 15:43	3.198	0.43	5.156
12/12/14 15:44	3.24	0.55	6.634
12/12/14 15:45	3.24	0.71	8.651
12/12/14 15:46	3.198	0.71	8.465
12/12/14 15:47	3.198	0.79	9.497
12/12/14 15:48	3.198	0.52	6.259
12/12/14 15:49	3.198	0.66	7.878
12/12/14 15:50	3.198	0.67	7.986
12/12/14 15:51	3.198	0.75	8.933
12/12/14 15:52	3.155	0.7	8.329
12/12/14 15:53	3.155	0.48	5.667
12/12/14 15:54	3.155	0.57	6.696
12/12/14 15:55	3.155	0.62	7.323
12/12/14 15:56	3.112	0.64	7.481
12/12/14 15:57	3.112	0.7	8.182
12/12/14 15:58	3.112	0.49	5.661
12/12/14 15:59	3.112	0.63	7.4
12/12/14 16:00	3.07	0.62	7.08
12/12/14 16:01	3.07	0.71	8.231
12/12/14 16:02	3.027	0.63	7.175
12/12/14 16:03	3.07	0.49	5.641
12/12/14 16:04	3.027	0.67	7.606
12/12/14 16:05	3.027	0.64	7.3
12/12/14 16:06	3.027	0.77	8.719
12/12/14 16:07	2.985	0.49	5.462
12/12/14 16:08	3.027	0.5	5.722
12/12/14 16:09	3.027	0.65	7.345
12/12/14 16:10	2.985	0.52	5.854
12/12/14 16:11	2.985	0.62	6.928
12/12/14 16:12	2.985	0.64	7.152
12/12/14 16:13	2.985	0.68	7.6

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 16:14	2.985	0.56	6.313
12/12/14 16:15	2.985	0.55	6.134
12/12/14 16:16	2.985	0.74	8.249
12/12/14 16:17	2.942	0.63	6.918
12/12/14 16:18	2.985	0.59	6.637
12/12/14 16:19	2.942	0.57	6.344
12/12/14 16:20	2.942	0.67	7.403
12/12/14 16:21	2.942	0.59	6.466
12/12/14 16:22	2.942	0.6	6.653
12/12/14 16:23	2.942	0.25	2.736
12/12/14 16:24	2.942	0.66	7.249
12/12/14 16:25	2.9	0.62	6.753
12/12/14 16:26	2.9	0.54	5.872
12/12/14 16:27	2.857	0.76	8.1
12/12/14 16:28	2.9	0.75	8.166
12/12/14 16:29	2.9	0.62	6.72
12/12/14 16:30	2.942	0.57	6.289
12/12/14 16:31	2.9	0.68	7.438
12/12/14 16:32	2.9	0.64	6.948
12/12/14 16:33	2.857	0.53	5.636
12/12/14 16:34	2.857	0.62	6.632
12/12/14 16:35	2.9	0.8	8.645
12/12/14 16:36	2.857	0.7	7.457
12/12/14 16:37	2.9	0.69	7.557
12/12/14 16:38	2.9	0.5	5.404
12/12/14 16:39	2.857	0.5	5.411
12/12/14 16:40	2.857	0.55	5.871
12/12/14 16:41	2.9	0.57	6.231
12/12/14 16:42	2.857	0.68	7.243
12/12/14 16:43	2.815	0.62	6.523
12/12/14 16:44	2.815	0.69	7.23
12/12/14 16:45	2.857	0.68	7.275
12/12/14 16:46	2.815	0.59	6.248
12/12/14 16:47	2.857	0.69	7.339
12/12/14 16:48	2.857	0.69	7.393
12/12/14 16:49	2.857	0.7	7.511
12/12/14 16:50	2.815	0.66	6.987
12/12/14 16:51	2.815	0.68	7.177
12/12/14 16:52	2.815	0.78	8.254
12/12/14 16:53	2.815	0.69	7.262
12/12/14 16:54	2.815	0.61	6.428
12/12/14 16:55	2.815	0.72	7.642
12/12/14 16:56	2.815	0.59	6.217
12/12/14 16:57	2.815	0.63	6.681
12/12/14 16:58	2.772	0.73	7.536

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 16:59	2.772	0.7	7.266
12/12/14 17:00	2.815	0.65	6.903
12/12/14 17:01	2.772	0.67	6.934
12/12/14 17:02	2.815	0.6	6.343
12/12/14 17:03	2.729	0.65	6.612
12/12/14 17:04	2.772	0.67	6.996
12/12/14 17:05	2.729	0.69	7.083
12/12/14 17:06	2.729	0.67	6.848
12/12/14 17:07	2.729	0.65	6.612
12/12/14 17:08	2.729	0.65	6.663
12/12/14 17:09	2.729	0.61	6.223
12/12/14 17:10	2.729	0.67	6.817
12/12/14 17:11	2.687	0.69	6.973
12/12/14 17:12	2.687	0.67	6.701
12/12/14 17:13	2.687	0.66	6.691
12/12/14 17:14	2.687	0.71	7.144
12/12/14 17:15	2.687	0.65	6.509
12/12/14 17:16	2.644	0.66	6.535
12/12/14 17:17	2.644	0.7	6.902
12/12/14 17:18	2.687	0.73	7.345
12/12/14 17:19	2.729	0.74	7.554
12/12/14 17:20	2.687	0.68	6.832
12/12/14 17:21	2.644	0.6	5.9
12/12/14 17:22	2.644	0.61	6.069
12/12/14 17:23	2.644	0.59	5.841
12/12/14 17:24	2.602	0.54	5.239
12/12/14 17:25	2.644	0.33	3.282
12/12/14 17:26	2.687	0.47	4.706
12/12/14 17:27	2.687	0.59	5.965
12/12/14 17:28	2.687	0.54	5.391
12/12/14 17:29	2.644	0.59	5.89
12/12/14 17:30	2.602	0.68	6.586
12/12/14 17:31	2.644	0.59	5.871
12/12/14 17:32	2.687	0.69	6.922
12/12/14 17:33	2.602	0.64	6.205
12/12/14 17:34	2.644	0.71	7.031
12/12/14 17:35	2.602	0.68	6.635
12/12/14 17:36	2.602	0.69	6.713
12/12/14 17:37	2.602	0.76	7.415
12/12/14 17:38	2.602	0.7	6.869
12/12/14 17:39	2.559	0.78	7.524
12/12/14 17:40	2.517	0.65	6.097
12/12/14 17:41	2.474	0.63	5.808
12/12/14 17:42	2.517	0.63	5.955
12/12/14 17:43	2.517	0.61	5.748

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 17:44	2.517	0.58	5.512
12/12/14 17:45	2.559	0.57	5.442
12/12/14 17:46	2.559	0.56	5.336
12/12/14 17:47	2.559	0.66	6.363
12/12/14 17:48	2.559	0.67	6.44
12/12/14 17:49	2.517	0.66	6.248
12/12/14 17:50	2.517	0.58	5.512
12/12/14 17:51	2.474	0.63	5.817
12/12/14 17:52	2.474	0.67	6.207
12/12/14 17:53	2.432	0.62	5.663
12/12/14 17:54	2.474	0.6	5.558
12/12/14 17:55	2.517	0.47	4.417
12/12/14 17:56	2.559	0.59	5.634
12/12/14 17:57	2.474	0.63	5.799
12/12/14 17:58	2.474	0.76	7.089
12/12/14 17:59	2.474	0.65	6.077
12/12/14 18:00	2.432	0.61	5.526
12/12/14 18:01	2.432	0.56	5.07
12/12/14 18:02	2.474	0.61	5.669
12/12/14 18:03	2.474	0.66	6.096
12/12/14 18:04	2.474	0.72	6.671
12/12/14 18:05	2.432	0.63	5.754
12/12/14 18:06	2.389	0.6	5.331
12/12/14 18:07	2.347	0.55	4.805
12/12/14 18:08	2.389	0.55	4.883
12/12/14 18:09	2.389	0.65	5.815
12/12/14 18:10	2.389	0.68	6.047
12/12/14 18:11	2.389	0.65	5.832
12/12/14 18:12	2.347	0.65	5.755
12/12/14 18:13	2.347	0.6	5.28
12/12/14 18:14	2.347	0.56	4.963
12/12/14 18:15	2.389	0.56	5.017
12/12/14 18:16	2.432	0.76	6.958
12/12/14 18:17	2.347	0.68	6.019
12/12/14 18:18	2.347	0.68	5.949
12/12/14 18:19	2.304	0.6	5.141
12/12/14 18:20	2.304	0.6	5.175
12/12/14 18:21	2.347	0.56	4.945
12/12/14 18:22	2.389	0.47	4.211
12/12/14 18:23	2.389	0.7	6.307
12/12/14 18:24	2.389	0.69	6.227
12/12/14 18:25	2.347	0.69	6.098
12/12/14 18:26	2.304	0.67	5.815
12/12/14 18:27	2.304	0.67	5.746
12/12/14 18:28	2.347	0.61	5.324

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 18:29	2.347	0.6	5.245
12/12/14 18:30	2.347	0.59	5.201
12/12/14 18:31	2.347	0.63	5.5
12/12/14 18:32	2.304	0.72	6.221
12/12/14 18:33	2.304	0.67	5.772
12/12/14 18:34	2.261	0.66	5.623
12/12/14 18:35	2.304	0.53	4.579
12/12/14 18:36	2.347	0.59	5.165
12/12/14 18:37	2.389	0.6	5.411
12/12/14 18:38	2.347	0.66	5.825
12/12/14 18:39	2.347	0.72	6.336
12/12/14 18:40	2.261	0.45	3.816
12/12/14 18:41	2.261	0.61	5.131
12/12/14 18:42	2.304	0.59	5.089
12/12/14 18:43	2.347	0.52	4.558
12/12/14 18:44	2.304	0.65	5.659
12/12/14 18:45	2.304	0.72	6.238
12/12/14 18:46	2.261	0.67	5.657
12/12/14 18:47	2.261	0.52	4.393
12/12/14 18:48	2.304	0.48	4.165
12/12/14 18:49	2.347	0.61	5.35
12/12/14 18:50	2.347	0.68	5.94
12/12/14 18:51	2.261	0.6	5.097
12/12/14 18:52	2.176	0.61	4.995
12/12/14 18:53	2.219	0.28	2.288
12/12/14 18:54	2.219	0.57	4.726
12/12/14 18:55	2.261	0.67	5.707
12/12/14 18:56	2.261	0.72	6.114
12/12/14 18:57	2.219	0.66	5.509
12/12/14 18:58	2.176	0.59	4.815
12/12/14 18:59	2.176	0.56	4.579
12/12/14 19:00	2.261	0.51	4.359
12/12/14 19:01	2.261	0.73	6.157
12/12/14 19:02	2.219	0.72	5.966
12/12/14 19:03	2.176	0.65	5.338
12/12/14 19:04	2.176	0.51	4.171
12/12/14 19:05	2.219	0.5	4.136
12/12/14 19:06	2.219	0.58	4.801
12/12/14 19:07	2.261	0.71	6.064
12/12/14 19:08	2.219	0.54	4.485
12/12/14 19:09	2.134	0.58	4.609
12/12/14 19:10	2.176	0.59	4.799
12/12/14 19:11	2.176	0.55	4.513
12/12/14 19:12	2.261	0.61	5.182
12/12/14 19:13	2.219	0.66	5.509

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 19:14	2.134	0.54	4.321
12/12/14 19:15	2.219	0.57	4.726
12/12/14 19:16	2.219	0.6	4.951
12/12/14 19:17	2.261	0.64	5.436
12/12/14 19:18	2.219	0.58	4.835
12/12/14 19:19	2.176	0.52	4.211
12/12/14 19:20	2.134	0.55	4.409
12/12/14 19:21	2.176	0.51	4.146
12/12/14 19:22	2.219	0.54	4.477
12/12/14 19:23	2.219	0.65	5.409
12/12/14 19:24	2.176	0.64	5.223
12/12/14 19:25	2.134	0.6	4.825
12/12/14 19:26	2.134	0.63	5.033
12/12/14 19:27	2.134	0.46	3.657
12/12/14 19:28	2.176	0.68	5.55
12/12/14 19:29	2.219	0.67	5.567
12/12/14 19:30	2.176	0.53	4.301
12/12/14 19:31	2.176	0.63	5.183
12/12/14 19:32	2.219	0.52	4.352
12/12/14 19:33	2.219	0.59	4.918
12/12/14 19:34	2.261	0.74	6.233
12/12/14 19:35	2.176	0.61	4.978
12/12/14 19:36	2.176	0.57	4.685
12/12/14 19:37	2.219	0.55	4.543
12/12/14 19:38	2.219	0.59	4.943
12/12/14 19:39	2.219	0.6	4.968
12/12/14 19:40	2.134	0.67	5.337
12/12/14 19:41	2.134	0.57	4.561
12/12/14 19:42	2.219	0.55	4.568
12/12/14 19:43	2.176	0.61	5.011
12/12/14 19:44	2.219	0.73	6.108
12/12/14 19:45	2.134	0.61	4.849
12/12/14 19:46	2.134	0.55	4.409
12/12/14 19:47	2.176	0.24	1.934
12/12/14 19:48	2.219	0.67	5.575
12/12/14 19:49	2.176	0.56	4.579
12/12/14 19:50	2.134	0.62	4.937
12/12/14 19:51	2.134	0.56	4.497
12/12/14 19:52	2.176	0.6	4.913
12/12/14 19:53	2.176	0.62	5.027
12/12/14 19:54	2.176	0.61	5.011
12/12/14 19:55	2.176	0.65	5.321
12/12/14 19:56	2.091	0.68	5.348
12/12/14 19:57	2.091	0.54	4.266
12/12/14 19:58	2.091	0.52	4.109

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 19:59	2.176	0.72	5.909
12/12/14 20:00	2.176	0.6	4.889
12/12/14 20:01	2.134	0.62	4.921
12/12/14 20:02	2.091	0.66	5.152
12/12/14 20:03	2.091	0.59	4.596
12/12/14 20:04	2.134	0.48	3.825
12/12/14 20:05	2.134	0.64	5.089
12/12/14 20:06	2.176	0.66	5.387
12/12/14 20:07	2.091	0.59	4.603
12/12/14 20:08	2.049	0.62	4.756
12/12/14 20:09	2.091	0.62	4.878
12/12/14 20:10	2.134	0.59	4.729
12/12/14 20:11	2.134	0.69	5.537
12/12/14 20:12	2.091	0.68	5.348
12/12/14 20:13	2.006	0.59	4.416
12/12/14 20:14	2.091	0.58	4.58
12/12/14 20:15	2.091	0.62	4.831
12/12/14 20:16	2.134	0.6	4.825
12/12/14 20:17	2.091	0.58	4.556
12/12/14 20:18	2.006	0.55	4.123
12/12/14 20:19	2.049	0.29	2.236
12/12/14 20:20	2.134	0.58	4.625
12/12/14 20:21	2.134	0.68	5.473
12/12/14 20:22	2.091	0.54	4.235
12/12/14 20:23	2.049	0.58	4.441
12/12/14 20:24	2.049	0.56	4.264
12/12/14 20:25	2.091	0.67	5.262
12/12/14 20:26	2.134	0.54	4.289
12/12/14 20:27	2.049	0.59	4.556
12/12/14 20:28	2.006	0.58	4.379
12/12/14 20:29	2.049	0.49	3.795
12/12/14 20:30	2.091	0.66	5.168
12/12/14 20:31	2.091	0.68	5.301
12/12/14 20:32	2.049	0.63	4.802
12/12/14 20:33	2.049	0.54	4.11
12/12/14 20:34	2.049	0.48	3.68
12/12/14 20:35	2.134	0.48	3.841
12/12/14 20:36	2.091	0.64	5.043
12/12/14 20:37	2.091	0.68	5.301
12/12/14 20:38	2.006	0.55	4.168
12/12/14 20:39	2.049	0.55	4.195
12/12/14 20:40	2.134	0.6	4.777
12/12/14 20:41	2.091	0.64	4.988
12/12/14 20:42	2.049	0.62	4.794
12/12/14 20:43	2.006	0.61	4.574

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 20:44	2.049	0.53	4.041
12/12/14 20:45	2.091	0.56	4.353
12/12/14 20:46	2.091	0.8	6.243
12/12/14 20:47	2.049	0.71	5.447
12/12/14 20:48	2.006	0.6	4.499
12/12/14 20:49	2.049	0.62	4.794
12/12/14 20:50	2.091	0.68	5.341
12/12/14 20:51	2.091	0.71	5.552
12/12/14 20:52	2.006	0.66	4.965
12/12/14 20:53	2.091	0.5	3.913
12/12/14 20:54	2.006	0.59	4.461
12/12/14 20:55	2.134	0.71	5.705
12/12/14 20:56	2.049	0.52	4.033
12/12/14 20:57	2.006	0.59	4.454
12/12/14 20:58	2.006	0.58	4.341
12/12/14 20:59	2.049	0.59	4.564
12/12/14 21:00	2.091	0.68	5.341
12/12/14 21:01	2.049	0.69	5.317
12/12/14 21:02	2.049	0.67	5.178
12/12/14 21:03	2.006	0.65	4.913
12/12/14 21:04	2.006	0.55	4.168
12/12/14 21:05	2.091	0.59	4.603
12/12/14 21:06	2.091	0.62	4.862
12/12/14 21:07	2.049	0.6	4.571
12/12/14 21:08	2.006	0.61	4.604
12/12/14 21:09	1.964	0.62	4.595
12/12/14 21:10	2.091	0.67	5.286
12/12/14 21:11	2.091	0.67	5.286
12/12/14 21:12	2.006	0.61	4.574
12/12/14 21:13	2.049	0.63	4.832
12/12/14 21:14	2.006	0.58	4.348
12/12/14 21:15	2.049	0.66	5.094
12/12/14 21:16	2.049	0.74	5.647
12/12/14 21:17	2.006	0.6	4.529
12/12/14 21:18	1.964	0.59	4.359
12/12/14 21:19	2.049	0.5	3.872
12/12/14 21:20	2.091	0.69	5.435
12/12/14 21:21	2.049	0.69	5.27
12/12/14 21:22	2.006	0.62	4.649
12/12/14 21:23	2.049	0.54	4.179
12/12/14 21:24	2.049	0.68	5.194
12/12/14 21:25	2.091	0.67	5.247
12/12/14 21:26	2.006	0.64	4.785
12/12/14 21:27	1.964	0.59	4.345
12/12/14 21:28	2.006	0.54	4.055

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 21:29	2.006	0.65	4.883
12/12/14 21:30	2.091	0.69	5.45
12/12/14 21:31	2.006	0.7	5.259
12/12/14 21:32	2.006	0.58	4.401
12/12/14 21:33	2.049	0.57	4.395
12/12/14 21:34	2.006	0.66	4.98
12/12/14 21:35	2.049	0.58	4.433
12/12/14 21:36	1.964	0.64	4.75
12/12/14 21:37	1.964	0.59	4.352
12/12/14 21:38	2.006	0.56	4.236
12/12/14 21:39	2.049	0.7	5.347
12/12/14 21:40	2.006	0.6	4.537
12/12/14 21:41	2.006	0.57	4.296
12/12/14 21:42	2.006	0.58	4.341
12/12/14 21:43	2.006	0.39	2.957
12/12/14 21:44	2.049	0.63	4.84
12/12/14 21:45	2.006	0.69	5.229
12/12/14 21:46	2.006	0.57	4.281
12/12/14 21:47	2.006	0.52	3.942
12/12/14 21:48	2.049	0.67	5.117
12/12/14 21:49	2.049	0.71	5.486
12/12/14 21:50	1.964	0.67	4.948
12/12/14 21:51	2.006	0.64	4.792
12/12/14 21:52	2.049	0.56	4.264
12/12/14 21:53	2.091	0.73	5.733
12/12/14 21:54	2.091	0.7	5.466
12/12/14 21:55	2.006	0.65	4.89
12/12/14 21:56	2.176	0.61	4.938
12/12/14 21:57	2.261	0.59	4.97
12/12/14 21:58	2.304	0.58	5.003
12/12/14 21:59	2.389	0.67	5.994
12/12/14 22:00	2.432	0.79	7.167
12/12/14 22:01	2.517	0.75	7.031
12/12/14 22:02	2.602	0.63	6.108
12/12/14 22:03	2.644	0.62	6.099
12/12/14 22:04	2.772	0.63	6.549
12/12/14 22:05	2.9	0.62	6.742
12/12/14 22:06	2.9	0.65	7.111
12/12/14 22:07	2.985	0.67	7.488
12/12/14 22:08	3.07	0.79	9.071
12/12/14 22:09	3.07	0.79	9.106
12/12/14 22:10	3.198	0.44	5.216
12/12/14 22:11	3.198	0.66	7.866
12/12/14 22:12	3.24	0.71	8.602
12/12/14 22:13	3.24	0.65	7.922

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 22:14	3.283	0.71	8.74
12/12/14 22:15	3.325	0.82	10.262
12/12/14 22:16	3.325	0.84	10.524
12/12/14 22:17	3.325	0.54	6.746
12/12/14 22:18	3.283	0.6	7.337
12/12/14 22:19	3.325	0.68	8.517
12/12/14 22:20	3.325	0.67	8.354
12/12/14 22:21	3.368	0.49	6.15
12/12/14 22:22	3.368	0.66	8.348
12/12/14 22:23	3.325	0.48	6.023
12/12/14 22:24	3.283	0.68	8.383
12/12/14 22:25	3.325	0.78	9.726
12/12/14 22:26	3.283	0.6	7.337
12/12/14 22:27	3.283	0.52	6.426
12/12/14 22:28	3.283	0.45	5.49
12/12/14 22:29	3.283	0.58	7.09
12/12/14 22:30	3.24	0.57	6.913
12/12/14 22:31	3.24	0.5	6.124
12/12/14 22:32	3.198	0.58	6.943
12/12/14 22:33	3.198	0.69	8.214
12/12/14 22:34	3.198	0.6	7.182
12/12/14 22:35	3.155	0.69	8.211
12/12/14 22:36	3.112	0.66	7.68
12/12/14 22:37	3.112	0.76	8.824
12/12/14 22:38	3.07	0.64	7.402
12/12/14 22:39	3.027	0.53	6.051
12/12/14 22:40	3.112	0.53	6.209
12/12/14 22:41	3.027	0.62	7.05
12/12/14 22:42	2.985	0.5	5.54
12/12/14 22:43	2.985	0.61	6.828
12/12/14 22:44	2.985	0.44	4.958
12/12/14 22:45	2.985	0.5	5.596
12/12/14 22:46	2.985	0.62	6.951
12/12/14 22:47	2.942	0.64	7.028
12/12/14 22:48	2.9	0.65	7.035
12/12/14 22:49	2.857	0.6	6.375
12/12/14 22:50	2.815	0.58	6.101
12/12/14 22:51	2.857	0.57	6.15
12/12/14 22:52	2.857	0.53	5.689
12/12/14 22:53	2.815	0.48	5.056
12/12/14 22:54	2.815	0.56	5.953
12/12/14 22:55	2.857	0.71	7.65
12/12/14 22:56	2.772	0.67	6.923
12/12/14 22:57	2.729	0.65	6.612
12/12/14 22:58	2.729	0.75	7.666

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 22:59	2.687	0.67	6.771
12/12/14 23:00	2.687	0.61	6.106
12/12/14 23:01	2.644	0.52	5.117
12/12/14 23:02	2.687	0.52	5.219
12/12/14 23:03	2.687	0.56	5.612
12/12/14 23:04	2.644	0.69	6.872
12/12/14 23:05	2.602	0.67	6.547
12/12/14 23:06	2.602	0.64	6.215
12/12/14 23:07	2.559	0.62	5.979
12/12/14 23:08	2.517	0.52	4.879
12/12/14 23:09	2.517	0.49	4.615
12/12/14 23:10	2.602	0.5	4.927
12/12/14 23:11	2.602	0.55	5.366
12/12/14 23:12	2.559	0.69	6.603
12/12/14 23:13	2.559	0.79	7.544
12/12/14 23:14	2.517	0.66	6.21
12/12/14 23:15	2.474	0.57	5.326
12/12/14 23:16	2.474	0.56	5.224
12/12/14 23:17	2.517	0.62	5.889
12/12/14 23:18	2.517	0.62	5.861
12/12/14 23:19	2.517	0.66	6.267
12/12/14 23:20	2.474	0.65	5.994
12/12/14 23:21	2.389	0.57	5.134
12/12/14 23:22	2.389	0.53	4.766
12/12/14 23:23	2.389	0.61	5.429
12/12/14 23:24	2.389	0.59	5.295
12/12/14 23:25	2.432	0.49	4.45
12/12/14 23:26	2.432	0.57	5.189
12/12/14 23:27	2.389	0.64	5.752
12/12/14 23:28	2.432	0.68	6.237
12/12/14 23:29	2.304	0.66	5.685
12/12/14 23:30	2.347	0.53	4.699
12/12/14 23:31	2.389	0.54	4.82
12/12/14 23:32	2.389	0.64	5.707
12/12/14 23:33	2.389	0.62	5.564
12/12/14 23:34	2.389	0.68	6.047
12/12/14 23:35	2.304	0.58	5.011
12/12/14 23:36	2.261	0.61	5.131
12/12/14 23:37	2.304	0.53	4.562
12/12/14 23:38	2.304	0.54	4.666
12/12/14 23:39	2.347	0.55	4.831
12/12/14 23:40	2.389	0.68	6.074
12/12/14 23:41	2.261	0.62	5.241
12/12/14 23:42	2.219	0.53	4.427
12/12/14 23:43	2.261	0.52	4.393

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 23:44	2.304	0.61	5.279
12/12/14 23:45	2.304	0.68	5.832
12/12/14 23:46	2.261	0.67	5.64
12/12/14 23:47	2.219	0.55	4.568
12/12/14 23:48	2.219	0.58	4.81
12/12/14 23:49	2.304	0.63	5.409
12/12/14 23:50	2.304	0.67	5.772
12/12/14 23:51	2.176	0.69	5.664
12/12/14 23:52	2.176	0.61	4.962
12/12/14 23:53	2.176	0.6	4.872
12/12/14 23:54	2.134	0.56	4.505
12/12/14 23:55	2.219	0.66	5.492
12/12/14 23:56	2.176	0.71	5.786
12/12/14 23:57	2.134	0.68	5.425
12/12/14 23:58	2.134	0.67	5.369
12/12/14 23:59	2.176	0.62	5.036
12/13/14 0:00	2.176	0.62	5.027
12/13/14 0:01	2.219	0.6	5.018
12/13/14 0:02	2.176	0.62	5.036
12/13/14 0:03	2.219	0.63	5.234
12/13/14 0:04	2.134	0.57	4.601
12/13/14 0:05	2.134	0.65	5.225
12/13/14 0:06	2.091	0.56	4.4
12/13/14 0:07	2.134	0.62	4.929
12/13/14 0:08	2.176	0.55	4.472
12/13/14 0:09	2.091	0.51	3.984
12/13/14 0:10	2.134	0.61	4.857
12/13/14 0:11	2.134	0.72	5.745
12/13/14 0:12	2.091	0.62	4.831
12/13/14 0:13	2.049	0.5	3.803
12/13/14 0:14	2.134	0.54	4.321
12/13/14 0:15	2.134	0.56	4.521
12/13/14 0:16	2.176	0.75	6.121
12/13/14 0:17	2.049	0.58	4.456
12/13/14 0:18	2.049	0.72	5.516
12/13/14 0:19	2.091	0.62	4.862
12/13/14 0:20	2.049	0.62	4.748
12/13/14 0:21	2.134	0.73	5.817
12/13/14 0:22	2.134	0.66	5.297
12/13/14 0:23	2.134	0.7	5.617
12/13/14 0:24	2.049	0.63	4.802
12/13/14 0:25	2.091	0.53	4.172
12/13/14 0:26	2.091	0.53	4.18
12/13/14 0:27	2.134	0.54	4.353
12/13/14 0:28	2.091	0.57	4.439

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 0:29	2.091	0.63	4.972
12/13/14 0:30	2.006	0.59	4.439
12/13/14 0:31	2.049	0.48	3.703
12/13/14 0:32	2.049	0.56	4.272
12/13/14 0:33	2.091	0.7	5.482
12/13/14 0:34	2.049	0.63	4.856
12/13/14 0:35	2.006	0.6	4.506
12/13/14 0:36	2.049	0.53	4.064
12/13/14 0:37	2.006	0.54	4.032
12/13/14 0:38	2.006	0.51	3.837
12/13/14 0:39	2.049	0.61	4.671
12/13/14 0:40	2.049	0.64	4.902
12/13/14 0:41	2.049	0.52	3.987
12/13/14 0:42	2.006	0.65	4.928
12/13/14 0:43	2.006	0.54	4.048
12/13/14 0:44	2.049	0.51	3.895
12/13/14 0:45	2.006	0.5	3.762
12/13/14 0:46	2.049	0.56	4.295
12/13/14 0:47	2.006	0.71	5.319
12/13/14 0:48	1.964	0.67	4.897
12/13/14 0:49	1.964	0.61	4.462
12/13/14 0:50	2.006	0.6	4.491
12/13/14 0:51	2.006	0.55	4.115
12/13/14 0:52	2.006	0.56	4.243
12/13/14 0:53	1.964	0.67	4.956
12/13/14 0:54	2.006	0.69	5.229
12/13/14 0:55	2.006	0.57	4.326
12/13/14 0:56	1.921	0.56	4.049
12/13/14 0:57	1.964	0.61	4.47
12/13/14 0:58	2.006	0.59	4.431
12/13/14 0:59	1.964	0.55	4.05
12/13/14 1:00	1.921	0.57	4.099
12/13/14 1:01	1.921	0.59	4.236
12/13/14 1:02	1.921	0.56	4.02
12/13/14 1:03	1.964	0.62	4.558
12/13/14 1:04	2.006	0.6	4.514
12/13/14 1:05	2.006	0.59	4.469
12/13/14 1:06	2.049	0.63	4.832
12/13/14 1:07	1.964	0.48	3.535
12/13/14 1:08	1.921	0.56	4.027
12/13/14 1:09	2.006	0.57	4.296
12/13/14 1:10	2.049	0.62	4.733
12/13/14 1:11	2.049	0.58	4.441
12/13/14 1:12	2.091	0.67	5.231
12/13/14 1:13	2.091	0.6	4.705

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 1:14	2.006	0.65	4.913
12/13/14 1:15	2.049	0.67	5.117
12/13/14 1:16	2.049	0.51	3.926
12/13/14 1:17	2.006	0.58	4.363
12/13/14 1:18	2.091	0.54	4.235
12/13/14 1:19	2.091	0.67	5.239
12/13/14 1:20	2.049	0.55	4.195
12/13/14 1:21	2.049	0.59	4.564
12/13/14 1:22	2.006	0.57	4.258
12/13/14 1:23	2.091	0.57	4.494
12/13/14 1:24	2.091	0.6	4.698
12/13/14 1:25	2.134	0.61	4.849
12/13/14 1:26	2.091	0.66	5.192
12/13/14 1:27	2.049	0.64	4.955
12/13/14 1:28	2.049	0.55	4.226
12/13/14 1:29	2.049	0.6	4.587
12/13/14 1:30	2.049	0.58	4.471
12/13/14 1:31	2.091	0.51	4.007
12/13/14 1:32	2.049	0.71	5.455
12/13/14 1:33	2.049	0.68	5.24
12/13/14 1:34	2.006	0.64	4.815
12/13/14 1:35	2.006	0.51	3.874
12/13/14 1:36	2.049	0.57	4.364
12/13/14 1:37	2.049	0.55	4.241
12/13/14 1:38	2.091	0.6	4.737
12/13/14 1:39	2.049	0.65	4.986
12/13/14 1:40	2.049	0.6	4.594
12/13/14 1:41	2.049	0.67	5.14
12/13/14 1:42	2.006	0.52	3.927
12/13/14 1:43	2.049	0.59	4.541
12/13/14 1:44	2.049	0.66	5.063
12/13/14 1:45	2.049	0.7	5.393
12/13/14 1:46	2.006	0.63	4.777
12/13/14 1:47	1.964	0.52	3.859
12/13/14 1:48	2.006	0.65	4.928
12/13/14 1:49	2.049	0.61	4.648
12/13/14 1:50	2.049	0.56	4.341
12/13/14 1:51	2.049	0.67	5.163
12/13/14 1:52	1.964	0.65	4.801
12/13/14 1:53	2.006	0.63	4.777
12/13/14 1:54	1.964	0.61	4.507
12/13/14 1:55	2.006	0.65	4.883
12/13/14 1:56	1.964	0.49	3.601
12/13/14 1:57	2.006	0.59	4.409
12/13/14 1:58	2.049	0.61	4.694

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 1:59	2.006	0.6	4.499
12/13/14 2:00	1.921	0.65	4.675
12/13/14 2:01	1.921	0.65	4.661
12/13/14 2:02	1.921	0.62	4.445
12/13/14 2:03	1.964	0.56	4.146
12/13/14 2:04	1.964	0.66	4.882
12/13/14 2:05	2.006	0.6	4.544
12/13/14 2:06	1.921	0.56	4.056
12/13/14 2:07	1.879	0.55	3.875
12/13/14 2:08	1.879	0.61	4.269
12/13/14 2:09	1.921	0.56	4.027
12/13/14 2:10	1.964	0.6	4.418
12/13/14 2:11	1.964	0.71	5.236
12/13/14 2:12	1.879	0.61	4.283
12/13/14 2:13	1.836	0.61	4.227
12/13/14 2:14	1.921	0.56	4.013
12/13/14 2:15	1.879	0.34	2.423
12/13/14 2:16	1.921	0.7	5.079
12/13/14 2:17	1.921	0.62	4.495
12/13/14 2:18	1.879	0.55	3.903
12/13/14 2:19	1.879	0.58	4.107
12/13/14 2:20	1.836	0.65	4.475
12/13/14 2:21	1.964	0.59	4.374
12/13/14 2:22	1.921	0.68	4.906
12/13/14 2:23	1.879	0.67	4.692
12/13/14 2:24	1.793	0.72	4.856
12/13/14 2:25	1.793	0.49	3.316
12/13/14 2:26	1.793	0.51	3.417
12/13/14 2:27	1.879	0.66	4.649
12/13/14 2:28	1.879	0.72	5.086
12/13/14 2:29	1.879	0.68	4.783
12/13/14 2:30	1.751	0.65	4.301
12/13/14 2:31	1.793	0.59	3.975
12/13/14 2:32	1.836	0.58	3.98
12/13/14 2:33	1.793	0.36	2.421
12/13/14 2:34	1.879	0.62	4.332
12/13/14 2:35	1.879	0.63	4.424
12/13/14 2:36	1.879	0.7	4.966
12/13/14 2:37	1.836	0.69	4.771
12/13/14 2:38	1.793	0.64	4.291
12/13/14 2:39	1.793	0.53	3.565
12/13/14 2:40	1.751	0.58	3.782
12/13/14 2:41	1.751	0.5	3.296
12/13/14 2:42	1.793	0.59	3.975
12/13/14 2:43	1.708	0.57	3.639

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 2:44	1.793	0.59	3.988
12/13/14 2:45	1.836	0.66	4.53
12/13/14 2:46	1.836	0.61	4.227
12/13/14 2:47	1.793	0.69	4.614
12/13/14 2:48	1.751	0.21	1.353
12/13/14 2:49	1.708	0.58	3.709
12/13/14 2:50	1.708	0.58	3.729
12/13/14 2:51	1.751	0.56	3.657
12/13/14 2:52	1.836	0.66	4.544
12/13/14 2:53	1.751	0.33	2.16
12/13/14 2:54	1.751	0.64	4.183
12/13/14 2:55	1.751	0.61	3.972
12/13/14 2:56	1.666	0.53	3.336
12/13/14 2:57	1.751	0.57	3.729
12/13/14 2:58	1.793	0.66	4.412
12/13/14 2:59	1.793	0.39	2.636
12/13/14 3:00	1.751	0.69	4.544
12/13/14 3:01	1.666	0.5	3.117
12/13/14 3:02	1.666	0.33	2.08
12/13/14 3:03	1.666	0.6	3.761
12/13/14 3:04	1.751	0.62	4.084
12/13/14 3:05	1.751	0.7	4.596
12/13/14 3:06	1.708	0.71	4.523
12/13/14 3:07	1.666	0.25	1.574
12/13/14 3:08	1.708	0.52	3.331
12/13/14 3:09	1.666	0.61	3.836
12/13/14 3:10	1.623	0.56	3.409
12/13/14 3:11	1.623	0.51	3.08
12/13/14 3:12	1.666	0.61	3.786
12/13/14 3:13	1.666	0.57	3.554
12/13/14 3:14	1.793	0.62	4.156
12/13/14 3:15	1.708	0.67	4.273
12/13/14 3:16	1.666	0.65	4.048
12/13/14 3:17	1.666	0.5	3.155
12/13/14 3:18	1.666	0.32	2.005
12/13/14 3:19	1.623	0.58	3.549
12/13/14 3:20	1.666	0.59	3.667
12/13/14 3:21	1.751	0.55	3.618
12/13/14 3:22	1.666	0.65	4.042
12/13/14 3:23	1.751	0.57	3.769
12/13/14 3:24	1.708	0.67	4.292
12/13/14 3:25	1.751	0.64	4.228
12/13/14 3:26	1.666	0.55	3.423
12/13/14 3:27	1.581	0.61	3.628
12/13/14 3:28	1.623	0.54	3.293

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 3:29	1.708	0.58	3.709
12/13/14 3:30	1.708	0.23	1.473
12/13/14 3:31	1.708	0.61	3.895
12/13/14 3:32	1.751	0.29	1.917
12/13/14 3:33	1.666	0.65	4.035
12/13/14 3:34	1.666	0.52	3.255
12/13/14 3:35	1.623	0.58	3.525
12/13/14 3:36	1.666	0.57	3.554
12/13/14 3:37	1.708	0.62	3.998
12/13/14 3:38	1.793	0	0
12/13/14 3:39	1.708	0.68	4.382
12/13/14 3:40	1.666	0.61	3.792
12/13/14 3:41	1.708	0.6	3.831
12/13/14 3:42	1.708	0.56	3.588
12/13/14 3:43	1.708	0.57	3.639
12/13/14 3:44	1.751	0.57	3.756
12/13/14 3:45	1.793	0.75	5.011
12/13/14 3:46	1.751	0.7	4.583
12/13/14 3:47	1.666	0.72	4.479
12/13/14 3:48	1.666	0.63	3.967
12/13/14 3:49	1.708	0.52	3.351
12/13/14 3:50	1.666	0.48	3.017
12/13/14 3:51	1.751	0.61	4.005
12/13/14 3:52	1.708	0.64	4.094
12/13/14 3:53	1.793	0.6	4.002
12/13/14 3:54	1.793	0	0
12/13/14 3:55	1.708	0.62	3.959
12/13/14 3:56	1.751	0.68	4.445
12/13/14 3:57	1.666	0.65	4.092
12/13/14 3:58	1.708	0.62	3.959
12/13/14 3:59	1.708	0.56	3.594
12/13/14 4:00	1.708	0.58	3.748
12/13/14 4:01	1.666	0.58	3.604
12/13/14 4:02	1.623	0.54	3.287
12/13/14 4:03	1.751	0.52	3.414
12/13/14 4:04	1.708	0.57	3.664
12/13/14 4:05	1.751	0.64	4.196
12/13/14 4:06	1.793	0.69	4.654
12/13/14 4:07	1.793	0.75	5.017
12/13/14 4:08	1.751	0.63	4.156
12/13/14 4:09	1.708	0.6	3.85
12/13/14 4:10	1.708	0.59	3.754
12/13/14 4:11	1.666	0.57	3.536
12/13/14 4:12	1.666	0.59	3.667
12/13/14 4:13	1.666	0.58	3.611

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 4:14	1.666	0.53	3.298
12/13/14 4:15	1.708	0.55	3.543
12/13/14 4:16	1.751	0.47	3.119
12/13/14 4:17	1.751	0.55	3.578
12/13/14 4:18	1.751	0.62	4.038
12/13/14 4:19	1.751	0.7	4.629
12/13/14 4:20	1.708	0.61	3.914
12/13/14 4:21	1.708	0.54	3.472
12/13/14 4:22	1.666	0.67	4.179
12/13/14 4:23	1.666	0.61	3.811
12/13/14 4:24	1.708	0.56	3.6
12/13/14 4:25	1.708	0.5	3.197
12/13/14 4:26	1.708	0.59	3.773
12/13/14 4:27	1.793	0.56	3.753
12/13/14 4:28	1.751	0.62	4.071
12/13/14 4:29	1.793	0.65	4.372
12/13/14 4:30	1.793	0.65	4.398
12/13/14 4:31	1.751	0.62	4.051
12/13/14 4:32	1.751	0.42	2.751
12/13/14 4:33	1.623	0.63	3.829
12/13/14 4:34	1.666	0.61	3.804
12/13/14 4:35	1.666	0.56	3.504
12/13/14 4:36	1.666	0.52	3.23
12/13/14 4:37	1.666	0.57	3.561
12/13/14 4:38	1.793	0.4	2.663
12/13/14 4:39	1.751	0.66	4.32
12/13/14 4:40	1.708	0.68	4.344
12/13/14 4:41	1.708	0.66	4.247
12/13/14 4:42	1.623	0.63	3.865
12/13/14 4:43	1.623	0.61	3.689
12/13/14 4:44	1.666	0.57	3.561
12/13/14 4:45	1.623	0.39	2.356
12/13/14 4:46	1.623	0.21	1.291
12/13/14 4:47	1.666	0.57	3.548
12/13/14 4:48	1.708	0.66	4.203
12/13/14 4:49	1.708	0.63	4.036
12/13/14 4:50	1.708	0.66	4.222
12/13/14 4:51	1.581	0.62	3.675
12/13/14 4:52	1.666	0.64	3.985
12/13/14 4:53	1.666	0.63	3.961
12/13/14 4:54	1.623	0.62	3.768
12/13/14 4:55	1.623	0.54	3.257
12/13/14 4:56	1.666	0.56	3.467
12/13/14 4:57	1.666	0.53	3.292
12/13/14 4:58	1.751	0.71	4.688

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 4:59	1.708	0.61	3.934
12/13/14 5:00	1.708	0.69	4.395
12/13/14 5:01	1.666	0.66	4.129
12/13/14 5:02	1.666	0.6	3.748
12/13/14 5:03	1.623	0.65	3.969
12/13/14 5:04	1.623	0.59	3.592
12/13/14 5:05	1.666	0.54	3.398
12/13/14 5:06	1.666	0.6	3.761
12/13/14 5:07	1.666	0.55	3.405
12/13/14 5:08	1.708	0.61	3.876
12/13/14 5:09	1.708	0.58	3.703
12/13/14 5:10	1.751	0.69	4.537
12/13/14 5:11	1.751	0.71	4.668
12/13/14 5:12	1.708	0.75	4.805
12/13/14 5:13	1.708	0.68	4.331
12/13/14 5:14	1.666	0.6	3.729
12/13/14 5:15	1.666	0.46	2.867
12/13/14 5:16	1.666	0.49	3.048
12/13/14 5:17	1.666	0.54	3.392
12/13/14 5:18	1.708	0.66	4.215
12/13/14 5:19	1.793	0.56	3.746
12/13/14 5:20	1.708	0.62	3.959
12/13/14 5:21	1.751	0.64	4.196
12/13/14 5:22	1.708	0.63	4.062
12/13/14 5:23	1.708	0.63	4.017
12/13/14 5:24	1.708	0.63	4.01
12/13/14 5:25	1.708	0.66	4.254
12/13/14 5:26	1.666	0.68	4.267
12/13/14 5:27	1.708	0.67	4.318
12/13/14 5:28	1.708	0.34	2.191
12/13/14 5:29	1.623	0.59	3.598
12/13/14 5:30	1.623	0.63	3.865
12/13/14 5:31	1.623	0.61	3.738
12/13/14 5:32	1.666	0.62	3.879
12/13/14 5:33	1.666	0.57	3.586
12/13/14 5:34	1.751	0.73	4.8
12/13/14 5:35	1.708	0.66	4.254
12/13/14 5:36	1.708	0.7	4.478
12/13/14 5:37	1.666	0.64	3.998
12/13/14 5:38	1.708	0.59	3.805
12/13/14 5:39	1.666	0.6	3.748
12/13/14 5:40	1.581	0.67	3.948
12/13/14 5:41	1.666	0.68	4.217
12/13/14 5:42	1.666	0.63	3.923
12/13/14 5:43	1.666	0.64	3.979

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 5:44	1.666	0.59	3.661
12/13/14 5:45	1.581	0.72	4.256
12/13/14 5:46	1.708	0.68	4.337
12/13/14 5:47	1.666	0.59	3.704
12/13/14 5:48	1.623	0.67	4.097
12/13/14 5:49	1.666	0.62	3.892
12/13/14 5:50	1.623	0.62	3.78
12/13/14 5:51	1.666	0.57	3.542
12/13/14 5:52	1.708	0.6	3.818
12/13/14 5:53	1.623	0.7	4.273
12/13/14 5:54	1.708	0.53	3.37
12/13/14 5:55	1.666	0.56	3.467
12/13/14 5:56	1.623	0.61	3.713
12/13/14 5:57	1.623	0.59	3.579
12/13/14 5:58	1.666	0.64	3.973
12/13/14 5:59	1.666	0.52	3.223
12/13/14 6:00	1.708	0.58	3.722
12/13/14 6:01	1.751	0.58	3.789
12/13/14 6:02	1.708	0.7	4.478
12/13/14 6:03	1.708	0.7	4.484
12/13/14 6:04	1.666	0.64	4.017
12/13/14 6:05	1.666	0.68	4.235
12/13/14 6:06	1.708	0.65	4.139
12/13/14 6:07	1.708	0.57	3.626
12/13/14 6:08	1.708	0.56	3.62
12/13/14 6:09	1.708	0.58	3.741
12/13/14 6:10	1.751	0.75	4.951
12/13/14 6:11	1.666	0.68	4.223
12/13/14 6:12	1.666	0.68	4.26
12/13/14 6:13	1.623	0.68	4.115
12/13/14 6:14	1.666	0.65	4.085
12/13/14 6:15	1.666	0.56	3.529
12/13/14 6:16	1.666	0.57	3.592
12/13/14 6:17	1.666	0.48	3.011
12/13/14 6:18	1.666	0.6	3.761
12/13/14 6:19	1.666	0.59	3.692
12/13/14 6:20	1.666	0.62	3.861
12/13/14 6:21	1.708	0.29	1.858
12/13/14 6:22	1.708	0.65	4.151
12/13/14 6:23	1.708	0.58	3.741
12/13/14 6:24	1.708	0.56	3.62
12/13/14 6:25	1.666	0.66	4.142
12/13/14 6:26	1.708	0.61	3.908
12/13/14 6:27	1.751	0.56	3.664
12/13/14 6:28	1.623	0.64	3.926

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 6:29	1.793	0.7	4.688
12/13/14 6:30	1.708	0.76	4.85
12/13/14 6:31	1.751	0.55	3.631
12/13/14 6:32	1.666	0.68	4.242
12/13/14 6:33	1.666	0.48	3.017
12/13/14 6:34	1.581	0.23	1.346
12/13/14 6:35	1.666	0.44	2.73
12/13/14 6:36	1.666	0.27	1.699
12/13/14 6:37	1.666	0.63	3.911
12/13/14 6:38	1.708	0.73	4.657
12/13/14 6:39	1.708	0.7	4.497
12/13/14 6:40	1.623	0.65	3.963
12/13/14 6:41	1.666	0.59	3.704
12/13/14 6:42	1.623	0.56	3.397
12/13/14 6:43	1.623	0.55	3.342
12/13/14 6:44	1.623	0.27	1.644
12/13/14 6:45	1.623	0.51	3.086
12/13/14 6:46	1.708	0.59	3.805
12/13/14 6:47	1.708	0.66	4.247
12/13/14 6:48	1.666	0.66	4.148
12/13/14 6:49	1.623	0.62	3.75
12/13/14 6:50	1.623	0.65	3.981
12/13/14 6:51	1.581	0.63	3.758
12/13/14 6:52	1.581	0.66	3.918
12/13/14 6:53	1.623	0.65	3.938
12/13/14 6:54	1.581	0.63	3.723
12/13/14 6:55	1.623	0.65	3.975
12/13/14 6:56	1.581	0.58	3.42
12/13/14 6:57	1.538	0.58	3.374
12/13/14 6:58	1.581	0.54	3.183
12/13/14 6:59	1.581	0.59	3.521
12/13/14 7:00	1.538	0.58	3.34
12/13/14 7:01	1.581	0.59	3.486
12/13/14 7:02	1.496	0.56	3.152
12/13/14 7:03	1.538	0.59	3.409
12/13/14 7:04	1.581	0.56	3.302
12/13/14 7:05	1.623	0.62	3.798
12/13/14 7:06	1.623	0.58	3.537
12/13/14 7:07	1.623	0.65	3.945
12/13/14 7:08	1.538	0.57	3.282
12/13/14 7:09	1.538	0.36	2.059
12/13/14 7:10	1.581	0.65	3.877
12/13/14 7:11	1.623	0.59	3.579
12/13/14 7:12	1.538	0.6	3.444
12/13/14 7:13	1.581	0.54	3.201

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 7:14	1.581	0.63	3.705
12/13/14 7:15	1.538	0.61	3.496
12/13/14 7:16	1.581	0.59	3.497
12/13/14 7:17	1.538	0.55	3.19
12/13/14 7:18	1.538	0.61	3.524
12/13/14 7:19	1.538	0.54	3.138
12/13/14 7:20	1.581	0.56	3.302
12/13/14 7:21	1.538	0.55	3.178
12/13/14 7:22	1.581	0.55	3.272
12/13/14 7:23	1.623	0.58	3.555
12/13/14 7:24	1.538	0.6	3.472
12/13/14 7:25	1.538	0.55	3.19
12/13/14 7:26	1.581	0.55	3.248
12/13/14 7:27	1.538	0.58	3.34
12/13/14 7:28	1.581	0.29	1.737
12/13/14 7:29	1.581	0.64	3.788
12/13/14 7:30	1.581	0.67	3.942
12/13/14 7:31	1.581	0.74	4.392
12/13/14 7:32	1.581	0.5	2.958
12/13/14 7:33	1.496	0.54	3.017
12/13/14 7:34	1.538	0.63	3.628
12/13/14 7:35	1.581	0.55	3.231
12/13/14 7:36	1.623	0.65	3.932
12/13/14 7:37	1.623	0.61	3.725
12/13/14 7:38	1.623	0.63	3.805
12/13/14 7:39	1.623	0.65	3.945
12/13/14 7:40	1.623	0.74	4.474
12/13/14 7:41	1.581	0.7	4.167
12/13/14 7:42	1.581	0.63	3.74
12/13/14 7:43	1.581	0.64	3.77
12/13/14 7:44	1.581	0.7	4.138
12/13/14 7:45	1.538	0.69	3.951
12/13/14 7:46	1.581	0.65	3.853
12/13/14 7:47	1.581	0.69	4.114
12/13/14 7:48	1.581	0.6	3.527
12/13/14 7:49	1.581	0.65	3.859
12/13/14 7:50	1.538	0.55	3.144
12/13/14 7:51	1.538	0.56	3.253
12/13/14 7:52	1.538	0.58	3.322
12/13/14 7:53	1.496	0.58	3.236
12/13/14 7:54	1.581	0.62	3.675
12/13/14 7:55	1.538	0.58	3.34
12/13/14 7:56	1.538	0.64	3.669
12/13/14 7:57	1.581	0.58	3.426
12/13/14 7:58	1.538	0.55	3.155

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 7:59	1.538	0.63	3.605
12/13/14 8:00	1.623	0.61	3.707
12/13/14 8:01	1.581	0.4	2.365
12/13/14 8:02	1.538	0.6	3.455
12/13/14 8:03	1.581	0.56	3.314
12/13/14 8:04	1.623	0.48	2.94
12/13/14 8:05	1.581	0.62	3.699
12/13/14 8:06	1.581	0.5	2.946
12/13/14 8:07	1.581	0.54	3.219
12/13/14 8:08	1.581	0.58	3.432
12/13/14 8:09	1.538	0.56	3.213
12/13/14 8:10	1.623	0.62	3.786
12/13/14 8:11	1.623	0.59	3.573
12/13/14 8:12	1.581	0.58	3.45
12/13/14 8:13	1.623	0.65	3.938
12/13/14 8:14	1.581	0.62	3.693
12/13/14 8:15	1.623	0.61	3.738
12/13/14 8:16	1.581	0.54	3.171
12/13/14 8:17	1.581	0.63	3.74
12/13/14 8:18	1.496	0.45	2.518
12/13/14 8:19	1.623	0.56	3.427
12/13/14 8:20	1.666	0.57	3.579
12/13/14 8:21	1.623	0.55	3.324
12/13/14 8:22	1.581	0.64	3.782
12/13/14 8:23	1.581	0.67	3.966
12/13/14 8:24	1.538	0.57	3.288
12/13/14 8:25	1.581	0.71	4.221
12/13/14 8:26	1.623	0.68	4.145
12/13/14 8:27	1.581	0.65	3.883
12/13/14 8:28	1.581	0.62	3.699
12/13/14 8:29	1.666	0.54	3.348
12/13/14 8:30	1.538	0.64	3.674
12/13/14 8:31	1.538	0.66	3.83
12/13/14 8:32	1.538	0.57	3.317
12/13/14 8:33	1.538	0.67	3.836
12/13/14 8:34	1.538	0.61	3.536
12/13/14 8:35	1.581	0.58	3.468
12/13/14 8:36	1.538	0.68	3.894
12/13/14 8:37	1.581	0.61	3.586
12/13/14 8:38	1.581	0.59	3.491
12/13/14 8:39	1.538	0.53	3.069
12/13/14 8:40	1.538	0.63	3.605
12/13/14 8:41	1.538	0.59	3.392
12/13/14 8:42	1.623	0.55	3.366
12/13/14 8:43	1.538	0.61	3.49

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 8:44	1.581	0.58	3.432
12/13/14 8:45	1.581	0.62	3.693
12/13/14 8:46	1.538	0.64	3.686
12/13/14 8:47	1.538	0.65	3.732
12/13/14 8:48	1.581	0.56	3.337
12/13/14 8:49	1.538	0.61	3.53
12/13/14 8:50	1.581	0.53	3.136
12/13/14 8:51	1.581	0.52	3.112
12/13/14 8:52	1.496	0.66	3.696
12/13/14 8:53	1.581	0.56	3.337
12/13/14 8:54	1.581	0.65	3.853
12/13/14 8:55	1.538	0.57	3.276
12/13/14 8:56	1.538	0.57	3.305
12/13/14 8:57	1.538	0.54	3.109
12/13/14 8:58	1.538	0.55	3.161
12/13/14 8:59	1.496	0.61	3.399
12/13/14 9:00	1.538	0.65	3.726
12/13/14 9:01	1.538	0.52	3.005
12/13/14 9:02	1.496	0.61	3.416
12/13/14 9:03	1.538	0.65	3.738
12/13/14 9:04	1.538	0.63	3.651
12/13/14 9:05	1.538	0.66	3.813
12/13/14 9:06	1.538	0.63	3.646
12/13/14 9:07	1.623	0.61	3.719
12/13/14 9:08	1.623	0.57	3.482
12/13/14 9:09	1.538	0.5	2.896
12/13/14 9:10	1.538	0.63	3.64
12/13/14 9:11	1.623	0.64	3.92
12/13/14 9:12	1.581	0.6	3.58
12/13/14 9:13	1.581	0.55	3.248
12/13/14 9:14	1.496	0.61	3.421
12/13/14 9:15	1.623	0.59	3.573
12/13/14 9:16	1.581	0.6	3.533
12/13/14 9:17	1.538	0.6	3.478
12/13/14 9:18	1.538	0.59	3.392
12/13/14 9:19	1.496	0.53	2.984
12/13/14 9:20	1.538	0.63	3.622
12/13/14 9:21	1.538	0.61	3.519
12/13/14 9:22	1.538	0.59	3.426
12/13/14 9:23	1.496	0.66	3.696
12/13/14 9:24	1.453	0.64	3.487
12/13/14 9:25	1.581	0.63	3.764
12/13/14 9:26	1.496	0.56	3.118
12/13/14 9:27	1.496	0.63	3.539
12/13/14 9:28	1.538	0.58	3.34

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 9:29	1.538	0.56	3.219
12/13/14 9:30	1.538	0.58	3.328
12/13/14 9:31	1.538	0.62	3.599
12/13/14 9:32	1.581	0.59	3.486
12/13/14 9:33	1.496	0.57	3.203
12/13/14 9:34	1.538	0.32	1.84
12/13/14 9:35	1.496	0.66	3.685
12/13/14 9:36	1.496	0.57	3.203

Table F-10. Storm 2 PLU Flow

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 14:08	1.16	0.44	0.029
12/11/14 14:09	1.626	0.44	0.029
12/11/14 14:10	1.115	0.44	0.029
12/11/14 14:11	1.072	0.44	0.029
12/11/14 14:12	1.029	0.44	0.029
12/11/14 14:13	1.072	0.44	0.029
12/11/14 14:14	1.072	0.44	0.029
12/11/14 14:15	1.072	0.44	0.029
12/11/14 14:16	1.072	0.44	0.029
12/11/14 14:17	0.987	0.44	0.029
12/11/14 14:18	0.987	0.44	0.029
12/11/14 14:19	1.029	0.44	0.029
12/11/14 14:20	1.029	0.44	0.029
12/11/14 14:21	0.987	0.44	0.029
12/11/14 14:22	1.072	0.44	0.029
12/11/14 14:23	1.029	0.44	0.029
12/11/14 14:24	0.987	0.44	0.029
12/11/14 14:25	1.072	0.44	0.029
12/11/14 14:26	1.072	0.44	0.029
12/11/14 14:27	0.987	0.44	0.029
12/11/14 14:28	1.072	0.44	0.029
12/11/14 14:29	0.987	0.44	0.029
12/11/14 14:30	0.944	0.44	0.029
12/11/14 14:31	1.029	0.44	0.029
12/11/14 14:32	1.029	0.44	0.029
12/11/14 14:33	1.072	0.44	0.029
12/11/14 14:34	1.029	0.44	0.029
12/11/14 14:35	1.029	0.44	0.029
12/11/14 14:36	1.029	0.44	0.029
12/11/14 14:37	1.072	0.44	0.029
12/11/14 14:38	0.987	0.44	0.029
12/11/14 14:39	1.072	0.44	0.029
12/11/14 14:40	1.072	0.44	0.029
12/11/14 14:41	1.115	0.44	0.029
12/11/14 14:42	1.072	0.44	0.029
12/11/14 14:43	1.072	0.44	0.029
12/11/14 14:44	1.029	0.44	0.029
12/11/14 14:45	1.072	0.44	0.029
12/11/14 14:46	0.987	0.44	0.029
12/11/14 14:47	1.029	0.44	0.029
12/11/14 14:48	1.029	0.44	0.029
12/11/14 14:49	0.944	0.44	0.029
12/11/14 14:50	1.072	0.44	0.029

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 14:51	1.029	0.44	0.029
12/11/14 14:52	0.987	0.44	0.029
12/11/14 14:53	1.029	0.44	0.029
12/11/14 14:54	0.944	0.44	0.029
12/11/14 14:55	1.072	0.44	0.029
12/11/14 14:56	1.072	0.44	0.029
12/11/14 14:57	0.987	0.44	0.029
12/11/14 14:58	0.987	0.44	0.029
12/11/14 14:59	0.944	0.44	0.029
12/11/14 15:00	1.029	0.44	0.029
12/11/14 15:01	1.029	0.44	0.029
12/11/14 15:02	1.029	0.44	0.029
12/11/14 15:03	1.072	0.44	0.029
12/11/14 15:04	1.072	0.44	0.029
12/11/14 15:05	1.072	0.44	0.029
12/11/14 15:06	1.072	0.44	0.029
12/11/14 15:07	0.987	0.44	0.029
12/11/14 15:08	0.987	0.44	0.029
12/11/14 15:09	0.944	0.44	0.029
12/11/14 15:10	0.987	0.44	0.029
12/11/14 15:11	1.072	0.44	0.029
12/11/14 15:12	0.987	0.44	0.029
12/11/14 15:13	1.072	0.44	0.029
12/11/14 15:14	1.072	0.44	0.029
12/11/14 15:15	0.987	0.44	0.029
12/11/14 15:16	0.944	0.44	0.029
12/11/14 15:17	1.072	0.44	0.029
12/11/14 15:18	1.029	0.44	0.029
12/11/14 15:19	1.029	0.44	0.029
12/11/14 15:20	1.072	0.44	0.029
12/11/14 15:21	1.029	0.44	0.029
12/11/14 15:22	1.029	0.44	0.029
12/11/14 15:23	0.987	0.44	0.029
12/11/14 15:24	1.029	0.44	0.029
12/11/14 15:25	1.072	0.44	0.029
12/11/14 15:26	1.029	0.44	0.029
12/11/14 15:27	1.029	0.44	0.029
12/11/14 15:28	1.072	0.44	0.029
12/11/14 15:29	0.944	0.44	0.029
12/11/14 15:30	1.072	0.44	0.029
12/11/14 15:31	1.029	0.44	0.029
12/11/14 15:32	0.944	0.44	0.029
12/11/14 15:33	1.029	0.44	0.029
12/11/14 15:34	0.987	0.44	0.029
12/11/14 15:35	1.029	0.44	0.029

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 15:36	0.987	0.44	0.029
12/11/14 15:37	1.029	0.44	0.029
12/11/14 15:38	0.944	0.44	0.029
12/11/14 15:39	0.987	0.44	0.029
12/11/14 15:40	1.072	0.44	0.029
12/11/14 15:41	1.029	0.44	0.029
12/11/14 15:42	1.072	0.44	0.029
12/11/14 15:43	1.072	0.44	0.029
12/11/14 15:44	0.987	0.44	0.029
12/11/14 15:45	0.987	0.44	0.029
12/11/14 15:46	1.072	0.44	0.029
12/11/14 15:47	0.987	0.44	0.029
12/11/14 15:48	1.072	0.44	0.029
12/11/14 15:49	1.072	0.44	0.029
12/11/14 15:50	0.944	0.44	0.029
12/11/14 15:51	0.987	0.44	0.029
12/11/14 15:52	0.987	0.44	0.029
12/11/14 15:53	0.987	0.44	0.029
12/11/14 15:54	1.029	0.44	0.029
12/11/14 15:55	1.072	0.44	0.029
12/11/14 15:56	1.072	0.44	0.029
12/11/14 15:57	1.029	0.44	0.029
12/11/14 15:58	1.072	0.44	0.029
12/11/14 15:59	0.944	0.44	0.029
12/11/14 16:00	1.029	0.44	0.029
12/11/14 16:01	0.944	0.44	0.029
12/11/14 16:02	1.072	0.44	0.029
12/11/14 16:03	1.072	0.44	0.029
12/11/14 16:04	1.029	0.44	0.029
12/11/14 16:05	1.072	0.44	0.029
12/11/14 16:06	0.987	0.44	0.029
12/11/14 16:07	1.029	0.44	0.029
12/11/14 16:08	1.029	0.44	0.029
12/11/14 16:09	0.944	0.44	0.029
12/11/14 16:10	1.029	0.44	0.029
12/11/14 16:11	1.029	0.44	0.029
12/11/14 16:12	1.029	0.44	0.029
12/11/14 16:13	0.987	0.44	0.029
12/11/14 16:14	1.029	0.44	0.029
12/11/14 16:15	0.987	0.44	0.029
12/11/14 16:16	1.072	0.44	0.029
12/11/14 16:17	0.987	0.44	0.029
12/11/14 16:18	1.029	0.44	0.029
12/11/14 16:19	0.944	0.44	0.029
12/11/14 16:20	1.072	0.44	0.029

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 16:21	0.987	0.44	0.029
12/11/14 16:22	1.072	0.44	0.029
12/11/14 16:23	1.029	0.44	0.029
12/11/14 16:24	0.944	0.44	0.029
12/11/14 16:25	1.029	0.44	0.029
12/11/14 16:26	0.987	0.44	0.029
12/11/14 16:27	1.072	0.44	0.029
12/11/14 16:28	1.072	0.44	0.029
12/11/14 16:29	1.029	0.44	0.029
12/11/14 16:30	1.072	0.44	0.029
12/11/14 16:31	1.072	0.44	0.029
12/11/14 16:32	1.029	0.44	0.029
12/11/14 16:33	1.029	0.44	0.029
12/11/14 16:34	1.029	0.44	0.029
12/11/14 16:35	1.072	0.44	0.029
12/11/14 16:36	1.072	0.44	0.029
12/11/14 16:37	0.944	0.44	0.029
12/11/14 16:38	1.072	0.44	0.029
12/11/14 16:39	0.987	0.44	0.029
12/11/14 16:40	0.987	0.44	0.029
12/11/14 16:41	0.944	0.44	0.029
12/11/14 16:42	1.029	0.44	0.029
12/11/14 16:43	1.029	0.44	0.029
12/11/14 16:44	1.029	0.44	0.029
12/11/14 16:45	1.072	0.44	0.029
12/11/14 16:46	0.987	0.44	0.029
12/11/14 16:47	1.072	0.44	0.029
12/11/14 16:48	1.072	0.44	0.029
12/11/14 16:49	1.072	0.44	0.029
12/11/14 16:50	0.944	0.44	0.029
12/11/14 16:51	1.029	0.44	0.029
12/11/14 16:52	0.944	0.44	0.029
12/11/14 16:53	0.944	0.44	0.029
12/11/14 16:54	1.029	0.44	0.029
12/11/14 16:55	1.072	0.44	0.029
12/11/14 16:56	1.029	0.44	0.029
12/11/14 16:57	0.987	0.44	0.029
12/11/14 16:58	1.072	0.44	0.029
12/11/14 16:59	1.072	0.44	0.029
12/11/14 17:00	0.987	0.44	0.029
12/11/14 17:01	0.944	0.44	0.029
12/11/14 17:02	0.944	0.44	0.029
12/11/14 17:03	0.944	0.44	0.029
12/11/14 17:04	1.072	0.44	0.029
12/11/14 17:05	1.029	0.44	0.029

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 17:06	1.029	0.44	0.029
12/11/14 17:07	1.029	0.44	0.029
12/11/14 17:08	1.072	0.44	0.029
12/11/14 17:09	0.944	0.44	0.029
12/11/14 17:10	1.029	0.44	0.029
12/11/14 17:11	0.944	0.83	0.049
12/11/14 17:12	0.987	0.83	0.049
12/11/14 17:13	0.944	0.83	0.049
12/11/14 17:14	0.987	0.83	0.049
12/11/14 17:15	0.944	0.83	0.049
12/11/14 17:16	0.987	0.83	0.049
12/11/14 17:17	1.029	0.83	0.049
12/11/14 17:18	1.029	0.83	0.049
12/11/14 17:19	0.987	0.83	0.049
12/11/14 17:20	0.987	0.83	0.049
12/11/14 17:21	0.944	0.83	0.049
12/11/14 17:22	1.072	0.83	0.049
12/11/14 17:23	0.944	0.83	0.049
12/11/14 17:24	1.072	0.83	0.049
12/11/14 17:25	1.072	0.83	0.049
12/11/14 17:26	1.072	0.83	0.049
12/11/14 17:27	0.944	0.83	0.049
12/11/14 17:28	0.987	0.83	0.049
12/11/14 17:29	1.029	0.83	0.049
12/11/14 17:30	0.944	0.83	0.049
12/11/14 17:31	0.987	0.83	0.049
12/11/14 17:32	1.072	0.83	0.049
12/11/14 17:33	0.987	0.83	0.049
12/11/14 17:34	0.944	0.83	0.049
12/11/14 17:35	0.987	0.83	0.049
12/11/14 17:36	0.987	0.83	0.049
12/11/14 17:37	0.987	0.83	0.049
12/11/14 17:38	1.029	0.83	0.049
12/11/14 17:39	0.944	0.83	0.049
12/11/14 17:40	1.072	0.83	0.049
12/11/14 17:41	1.072	0.83	0.049
12/11/14 17:42	1.072	0.83	0.049
12/11/14 17:43	1.072	0.83	0.049
12/11/14 17:44	1.072	0.83	0.049
12/11/14 17:45	1.072	0.83	0.049
12/11/14 17:46	0.944	0.83	0.049
12/11/14 17:47	0.944	0.83	0.049
12/11/14 17:48	1.029	0.83	0.049
12/11/14 17:49	1.072	0.83	0.049
12/11/14 17:50	1.029	0.83	0.049

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 17:51	1.029	0.83	0.049
12/11/14 17:52	0.944	0.83	0.049
12/11/14 17:53	1.029	0.83	0.049
12/11/14 17:54	1.072	0.83	0.049
12/11/14 17:55	1.029	0.83	0.049
12/11/14 17:56	1.072	0.83	0.049
12/11/14 17:57	0.944	0.83	0.049
12/11/14 17:58	0.987	0.83	0.049
12/11/14 17:59	1.029	0.83	0.049
12/11/14 18:00	1.029	0.83	0.049
12/11/14 18:01	0.987	0.83	0.049
12/11/14 18:02	1.029	0.83	0.049
12/11/14 18:03	0.944	0.83	0.049
12/11/14 18:04	0.944	0.83	0.049
12/11/14 18:05	0.987	0.83	0.049
12/11/14 18:06	0.944	0.83	0.049
12/11/14 18:07	0.944	0.83	0.049
12/11/14 18:08	1.029	0.83	0.049
12/11/14 18:09	1.029	0.83	0.049
12/11/14 18:10	0.987	0.83	0.049
12/11/14 18:11	0.987	0.83	0.049
12/11/14 18:12	1.029	0.83	0.049
12/11/14 18:13	1.029	0.83	0.049
12/11/14 18:14	0.944	0.83	0.049
12/11/14 18:15	0.944	0.83	0.049
12/11/14 18:16	1.029	0.83	0.049
12/11/14 18:17	1.029	0.83	0.049
12/11/14 18:18	0.944	0.83	0.049
12/11/14 18:19	1.029	0.83	0.049
12/11/14 18:20	1.029	0.83	0.049
12/11/14 18:21	0.987	0.83	0.049
12/11/14 18:22	0.944	0.83	0.049
12/11/14 18:23	0.944	0.83	0.049
12/11/14 18:24	1.029	0.83	0.049
12/11/14 18:25	1.029	0.83	0.049
12/11/14 18:26	1.072	0.83	0.049
12/11/14 18:27	0.944	0.83	0.049
12/11/14 18:28	0.987	0.83	0.049
12/11/14 18:29	0.944	0.83	0.049
12/11/14 18:30	0.987	0.83	0.049
12/11/14 18:31	0.987	0.83	0.049
12/11/14 18:32	1.072	0.83	0.049
12/11/14 18:33	0.987	0.83	0.049
12/11/14 18:34	0.944	0.83	0.049
12/11/14 18:35	0.987	0.83	0.049

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 18:36	1.029	0.83	0.049
12/11/14 18:37	1.029	0.83	0.049
12/11/14 18:38	0.987	0.83	0.049
12/11/14 18:39	0.944	0.83	0.049
12/11/14 18:40	1.029	0.83	0.049
12/11/14 18:41	0.944	0.83	0.049
12/11/14 18:42	0.944	0.83	0.049
12/11/14 18:43	0.987	0.83	0.049
12/11/14 18:44	0.944	0.83	0.049
12/11/14 18:45	0.944	0.83	0.049
12/11/14 18:46	0.944	0.83	0.049
12/11/14 18:47	0.987	0.83	0.049
12/11/14 18:48	1.029	0.83	0.049
12/11/14 18:49	1.029	0.83	0.049
12/11/14 18:50	1.029	0.83	0.049
12/11/14 18:51	0.944	0.83	0.049
12/11/14 18:52	0.944	0.83	0.049
12/11/14 18:53	0.944	0.83	0.049
12/11/14 18:54	0.987	0.83	0.049
12/11/14 18:55	1.029	0.83	0.049
12/11/14 18:56	0.944	0.83	0.049
12/11/14 18:57	1.029	0.83	0.049
12/11/14 18:58	0.944	0.83	0.049
12/11/14 18:59	0.987	0.83	0.049
12/11/14 19:00	0.987	0.83	0.049
12/11/14 19:01	0.987	0.83	0.049
12/11/14 19:02	0.944	0.83	0.049
12/11/14 19:03	0.987	0.83	0.049
12/11/14 19:04	0.987	0.83	0.049
12/11/14 19:05	0.987	0.83	0.049
12/11/14 19:06	0.944	0.83	0.049
12/11/14 19:07	1.029	0.83	0.049
12/11/14 19:08	1.029	0.83	0.049
12/11/14 19:09	0.944	0.83	0.049
12/11/14 19:10	0.987	0.83	0.049
12/11/14 19:11	0.987	0.83	0.049
12/11/14 19:12	0.944	0.83	0.049
12/11/14 19:13	0.944	0.83	0.049
12/11/14 19:14	1.029	0.83	0.049
12/11/14 19:15	0.944	0.83	0.049
12/11/14 19:16	0.944	0.83	0.049
12/11/14 19:17	0.987	0.83	0.049
12/11/14 19:18	0.987	0.83	0.049
12/11/14 19:19	0.944	0.83	0.049
12/11/14 19:20	1.029	0.83	0.049

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 19:21	0.944	0.83	0.049
12/11/14 19:22	1.072	0.83	0.049
12/11/14 19:23	1.029	0.83	0.049
12/11/14 19:24	0.944	0.83	0.049
12/11/14 19:25	1.029	0.83	0.049
12/11/14 19:26	0.944	0.83	0.049
12/11/14 19:27	1.029	0.83	0.049
12/11/14 19:28	1.029	0.83	0.049
12/11/14 19:29	0.944	0.83	0.049
12/11/14 19:30	0.987	0.83	0.049
12/11/14 19:31	1.029	0.83	0.049
12/11/14 19:32	1.029	0.83	0.049
12/11/14 19:33	1.029	0.83	0.049
12/11/14 19:34	0.944	0.83	0.049
12/11/14 19:35	1.029	0.83	0.049
12/11/14 19:36	0.987	0.83	0.049
12/11/14 19:37	1.029	0.83	0.049
12/11/14 19:38	1.029	0.83	0.049
12/11/14 19:39	1.029	0.83	0.049
12/11/14 19:40	1.029	0.83	0.049
12/11/14 19:41	1.029	0.83	0.049
12/11/14 19:42	0.987	0.83	0.049
12/11/14 19:43	0.944	0.83	0.049
12/11/14 19:44	0.987	0.83	0.049
12/11/14 19:45	1.029	0.83	0.049
12/11/14 19:46	0.944	0.83	0.049
12/11/14 19:47	0.987	0.83	0.049
12/11/14 19:48	1.029	0.83	0.049
12/11/14 19:49	1.072	0.83	0.049
12/11/14 19:50	0.944	0.83	0.049
12/11/14 19:51	0.987	0.83	0.049
12/11/14 19:52	1.029	0.83	0.049
12/11/14 19:53	0.902	0.83	0.049
12/11/14 19:54	0.987	0.83	0.049
12/11/14 19:55	1.029	0.83	0.049
12/11/14 19:56	0.944	0.83	0.049
12/11/14 19:57	0.944	0.83	0.049
12/11/14 19:58	1.029	0.83	0.049
12/11/14 19:59	0.944	0.83	0.049
12/11/14 20:00	1.029	0.83	0.049
12/11/14 20:01	1.029	0.83	0.049
12/11/14 20:02	0.987	0.83	0.049
12/11/14 20:03	1.029	0.83	0.049
12/11/14 20:04	0.944	0.83	0.049
12/11/14 20:05	0.987	0.83	0.049

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 20:06	0.944	0.83	0.049
12/11/14 20:07	0.987	0.83	0.049
12/11/14 20:08	1.029	0.83	0.049
12/11/14 20:09	1.029	0.83	0.049
12/11/14 20:10	1.072	0.83	0.049
12/11/14 20:11	0.987	0.83	0.049
12/11/14 20:12	0.987	0.83	0.049
12/11/14 20:13	1.029	0.83	0.049
12/11/14 20:14	0.944	0.83	0.049
12/11/14 20:15	1.029	0.83	0.049
12/11/14 20:16	0.944	0.83	0.049
12/11/14 20:17	0.944	0.83	0.049
12/11/14 20:18	1.072	0.83	0.049
12/11/14 20:19	1.115	0.83	0.049
12/11/14 20:20	1.072	0.83	0.049
12/11/14 20:21	0.987	0.83	0.049
12/11/14 20:22	1.029	0.83	0.049
12/11/14 20:23	0.987	0.83	0.049
12/11/14 20:24	1.072	0.83	0.049
12/11/14 20:25	1.072	0.83	0.049
12/11/14 20:26	0.987	0.83	0.049
12/11/14 20:27	1.029	0.83	0.049
12/11/14 20:28	1.029	0.83	0.049
12/11/14 20:29	1.029	0.83	0.049
12/11/14 20:30	0.944	0.83	0.049
12/11/14 20:31	1.072	0.83	0.049
12/11/14 20:32	1.072	0.83	0.049
12/11/14 20:33	0.987	0.83	0.049
12/11/14 20:34	1.029	0.83	0.049
12/11/14 20:35	0.987	0.83	0.049
12/11/14 20:36	1.029	0.83	0.049
12/11/14 20:37	0.944	0.83	0.049
12/11/14 20:38	0.987	0.83	0.049
12/11/14 20:39	0.987	0.83	0.049
12/11/14 20:40	1.029	0.21	0.014
12/11/14 20:41	1.029	0.21	0.014
12/11/14 20:42	1.029	0.21	0.014
12/11/14 20:43	0.987	0.21	0.014
12/11/14 20:44	0.987	0.21	0.014
12/11/14 20:45	1.029	0.21	0.014
12/11/14 20:46	1.029	0.21	0.014
12/11/14 20:47	1.029	0.21	0.014
12/11/14 20:48	1.072	0.21	0.014
12/11/14 20:49	0.987	0.21	0.014
12/11/14 20:50	0.944	0.21	0.014

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 20:51	0.987	0.21	0.014
12/11/14 20:52	0.987	0.21	0.014
12/11/14 20:53	0.987	0.21	0.014
12/11/14 20:54	1.029	0.21	0.014
12/11/14 20:55	0.944	0.21	0.014
12/11/14 20:56	1.072	0.21	0.014
12/11/14 20:57	1.029	0.21	0.014
12/11/14 20:58	0.944	0.21	0.014
12/11/14 20:59	1.029	0.21	0.014
12/11/14 21:00	1.072	0.21	0.014
12/11/14 21:01	1.029	0.21	0.014
12/11/14 21:02	1.029	0.21	0.014
12/11/14 21:03	1.072	0.21	0.014
12/11/14 21:04	1.029	0.21	0.014
12/11/14 21:05	1.029	0.21	0.014
12/11/14 21:06	1.072	0.21	0.014
12/11/14 21:07	1.072	0.21	0.014
12/11/14 21:08	1.115	0.21	0.014
12/11/14 21:09	1.029	0.21	0.014
12/11/14 21:10	1.029	0.21	0.014
12/11/14 21:11	1.115	0.21	0.014
12/11/14 21:12	1.115	0.21	0.014
12/11/14 21:13	0.944	0.21	0.014
12/11/14 21:14	0.944	0.21	0.014
12/11/14 21:15	1.072	0.21	0.014
12/11/14 21:16	1.072	0.21	0.014
12/11/14 21:17	1.072	0.21	0.014
12/11/14 21:18	1.072	0.21	0.014
12/11/14 21:19	1.072	0.21	0.014
12/11/14 21:20	1.029	0.22	0.015
12/11/14 21:21	1.115	0.22	0.015
12/11/14 21:22	1.029	0.22	0.015
12/11/14 21:23	0.987	0.22	0.015
12/11/14 21:24	1.072	0.22	0.015
12/11/14 21:25	1.072	0.22	0.015
12/11/14 21:26	1.115	0.22	0.015
12/11/14 21:27	1.072	0.22	0.015
12/11/14 21:28	1.072	0.22	0.015
12/11/14 21:29	1.072	0.22	0.015
12/11/14 21:30	0.987	0.22	0.015
12/11/14 21:31	0.944	0.2	0.012
12/11/14 21:32	1.029	0.2	0.012
12/11/14 21:33	0.987	0.2	0.012
12/11/14 21:34	0.987	0.2	0.012
12/11/14 21:35	1.072	0.2	0.012

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 21:36	0.987	0.2	0.012
12/11/14 21:37	1.072	0.2	0.012
12/11/14 21:38	0.987	0.2	0.012
12/11/14 21:39	0.987	0.2	0.012
12/11/14 21:40	1.072	0.2	0.012
12/11/14 21:41	1.072	0.28	0.02
12/11/14 21:42	1.029	0.28	0.02
12/11/14 21:43	0.987	0.28	0.02
12/11/14 21:44	1.029	0.28	0.02
12/11/14 21:45	1.072	0.55	0.039
12/11/14 21:46	0.987	0.55	0.039
12/11/14 21:47	1.115	0.55	0.039
12/11/14 21:48	0.987	0.55	0.039
12/11/14 21:49	1.072	0.55	0.039
12/11/14 21:50	1.115	0.55	0.039
12/11/14 21:51	1.072	0.55	0.039
12/11/14 21:52	1.115	0.55	0.039
12/11/14 21:53	1.115	0.55	0.039
12/11/14 21:54	0.987	0.55	0.039
12/11/14 21:55	1.029	0.42	0.028
12/11/14 21:56	1.115	0.56	0.042
12/11/14 21:57	1.072	0.56	0.042
12/11/14 21:58	0.987	0.56	0.042
12/11/14 21:59	1.072	0.56	0.042
12/11/14 22:00	0.987	0.56	0.042
12/11/14 22:01	1.029	0.56	0.042
12/11/14 22:02	1.072	0.56	0.042
12/11/14 22:03	1.072	0.75	0.053
12/11/14 22:04	0.987	0.75	0.053
12/11/14 22:05	1.072	0.75	0.053
12/11/14 22:06	1.072	0.22	0.015
12/11/14 22:07	1.072	0.22	0.015
12/11/14 22:08	0.987	0.64	0.04
12/11/14 22:09	1.072	0.64	0.04
12/11/14 22:10	1.072	0.64	0.04
12/11/14 22:11	1.072	0.64	0.04
12/11/14 22:12	1.029	0.64	0.04
12/11/14 22:13	1.029	0.64	0.04
12/11/14 22:14	1.029	0.64	0.04
12/11/14 22:15	0.987	0.64	0.04
12/11/14 22:16	1.029	0.64	0.04
12/11/14 22:17	0.987	0.3	0.019
12/11/14 22:18	1.115	0.3	0.019
12/11/14 22:19	1.072	0.3	0.019
12/11/14 22:20	1.029	0.3	0.019

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 22:21	0.944	0.3	0.019
12/11/14 22:22	1.029	0.3	0.019
12/11/14 22:23	0.987	0.3	0.019
12/11/14 22:24	0.987	0.3	0.019
12/11/14 22:25	1.072	0.3	0.019
12/11/14 22:26	1.072	0.3	0.019
12/11/14 22:27	0.987	0.3	0.019
12/11/14 22:28	1.072	0.3	0.019
12/11/14 22:29	0.944	0.3	0.019
12/11/14 22:30	0.987	0.3	0.019
12/11/14 22:31	1.029	0.3	0.019
12/11/14 22:32	1.029	0.25	0.016
12/11/14 22:33	0.987	0.25	0.016
12/11/14 22:34	1.072	0.25	0.016
12/11/14 22:35	0.987	0.25	0.016
12/11/14 22:36	1.072	0.25	0.016
12/11/14 22:37	0.987	0.25	0.016
12/11/14 22:38	1.072	0.25	0.016
12/11/14 22:39	1.029	0.25	0.016
12/11/14 22:40	1.072	0.25	0.016
12/11/14 22:41	1.029	0.25	0.016
12/11/14 22:42	1.072	0.25	0.016
12/11/14 22:43	1.115	0.25	0.016
12/11/14 22:44	1.029	0.25	0.016
12/11/14 22:45	0.944	0.21	0.012
12/11/14 22:46	1.029	0.21	0.012
12/11/14 22:47	1.072	0.21	0.012
12/11/14 22:48	1.029	0.29	0.019
12/11/14 22:49	1.072	0.29	0.019
12/11/14 22:50	1.072	0.24	0.017
12/11/14 22:51	1.072	0.24	0.017
12/11/14 22:52	1.072	0.24	0.017
12/11/14 22:53	0.987	0.24	0.017
12/11/14 22:54	0.944	0.24	0.017
12/11/14 22:55	1.072	0.24	0.017
12/11/14 22:56	1.072	0.24	0.017
12/11/14 22:57	1.029	0.24	0.017
12/11/14 22:58	1.029	0.24	0.017
12/11/14 22:59	1.029	0.24	0.017
12/11/14 23:00	1.115	0.24	0.017
12/11/14 23:01	1.029	0.24	0.017
12/11/14 23:02	1.072	0.24	0.017
12/11/14 23:03	1.115	0.24	0.017
12/11/14 23:04	1.072	0.24	0.017
12/11/14 23:05	1.115	0.24	0.017

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 23:06	1.072	0.24	0.017
12/11/14 23:07	1.072	0.24	0.017
12/11/14 23:08	0.987	0.24	0.017
12/11/14 23:09	1.029	0.24	0.017
12/11/14 23:10	1.072	0.24	0.017
12/11/14 23:11	1.072	0.24	0.017
12/11/14 23:12	0.987	0.24	0.017
12/11/14 23:13	1.072	0.24	0.017
12/11/14 23:14	1.029	0.24	0.017
12/11/14 23:15	1.072	0.24	0.017
12/11/14 23:16	0.987	0.24	0.017
12/11/14 23:17	0.944	0.68	0.04
12/11/14 23:18	0.987	0.68	0.04
12/11/14 23:19	0.987	0.68	0.04
12/11/14 23:20	1.072	0.68	0.04
12/11/14 23:21	1.072	0.68	0.04
12/11/14 23:22	0.987	0.21	0.013
12/11/14 23:23	1.115	0.21	0.013
12/11/14 23:24	1.029	0.21	0.013
12/11/14 23:25	1.115	0.21	0.013
12/11/14 23:26	1.072	0.21	0.013
12/11/14 23:27	0.987	0.21	0.013
12/11/14 23:28	1.072	0.21	0.013
12/11/14 23:29	1.072	0.21	0.013
12/11/14 23:30	1.115	0.21	0.013
12/11/14 23:31	1.072	0.2	0.014
12/11/14 23:32	1.072	0.2	0.014
12/11/14 23:33	0.987	0.2	0.014
12/11/14 23:34	1.072	0.2	0.014
12/11/14 23:35	1.072	0.2	0.014
12/11/14 23:36	0.944	0.2	0.014
12/11/14 23:37	1.029	0.2	0.014
12/11/14 23:38	1.029	0.2	0.014
12/11/14 23:39	1.072	0.2	0.014
12/11/14 23:40	1.072	0.2	0.014
12/11/14 23:41	1.072	0.2	0.014
12/11/14 23:42	0.987	0.2	0.014
12/11/14 23:43	1.072	0.2	0.014
12/11/14 23:44	0.944	0.2	0.014
12/11/14 23:45	1.072	0.2	0.014
12/11/14 23:46	1.072	0.2	0.014
12/11/14 23:47	0.944	0.2	0.014
12/11/14 23:48	1.072	0.2	0.014
12/11/14 23:49	1.072	0.2	0.014
12/11/14 23:50	1.029	0.2	0.014

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/11/14 23:51	1.072	0.2	0.014
12/11/14 23:52	0.987	0.2	0.014
12/11/14 23:53	1.072	0.2	0.014
12/11/14 23:54	1.072	0.2	0.014
12/11/14 23:55	0.944	0.22	0.013
12/11/14 23:56	1.029	0.22	0.013
12/11/14 23:57	1.029	0.22	0.013
12/11/14 23:58	1.072	0.22	0.013
12/11/14 23:59	1.072	0.22	0.013
12/12/14 0:00	1.029	0.22	0.013
12/12/14 0:01	0.944	0.31	0.018
12/12/14 0:02	1.115	0.31	0.018
12/12/14 0:03	1.072	0.31	0.018
12/12/14 0:04	1.115	0.31	0.018
12/12/14 0:05	0.987	0.31	0.018
12/12/14 0:06	1.029	0.31	0.018
12/12/14 0:07	0.944	0.31	0.018
12/12/14 0:08	1.072	0.31	0.018
12/12/14 0:09	1.072	0.31	0.018
12/12/14 0:10	1.029	0.31	0.018
12/12/14 0:11	0.944	0.31	0.018
12/12/14 0:12	1.072	0.31	0.018
12/12/14 0:13	1.072	0.31	0.018
12/12/14 0:14	1.115	0.31	0.018
12/12/14 0:15	1.072	0.31	0.018
12/12/14 0:16	1.029	0.31	0.018
12/12/14 0:17	1.072	0.31	0.018
12/12/14 0:18	0.987	0.31	0.018
12/12/14 0:19	1.072	0.31	0.018
12/12/14 0:20	1.029	0.31	0.018
12/12/14 0:21	1.072	0.31	0.018
12/12/14 0:22	1.072	0.31	0.018
12/12/14 0:23	1.115	0.31	0.018
12/12/14 0:24	1.072	0.31	0.018
12/12/14 0:25	1.029	0.31	0.018
12/12/14 0:26	1.072	0.31	0.018
12/12/14 0:27	0.987	0.31	0.018
12/12/14 0:28	1.029	0.31	0.018
12/12/14 0:29	0.987	0.31	0.018
12/12/14 0:30	0.987	0.23	0.014
12/12/14 0:31	1.072	0.23	0.014
12/12/14 0:32	1.115	0.23	0.014
12/12/14 0:33	0.944	0.23	0.014
12/12/14 0:34	1.072	0.23	0.014
12/12/14 0:35	0.987	0.23	0.014

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 0:36	0.987	0.23	0.014
12/12/14 0:37	1.072	0.23	0.014
12/12/14 0:38	1.115	0.23	0.014
12/12/14 0:39	1.115	0.23	0.014
12/12/14 0:40	0.987	0.23	0.014
12/12/14 0:41	1.072	0.23	0.014
12/12/14 0:42	1.072	0.23	0.014
12/12/14 0:43	1.029	0.23	0.014
12/12/14 0:44	1.029	0.23	0.014
12/12/14 0:45	1.029	0.23	0.014
12/12/14 0:46	1.115	0.23	0.014
12/12/14 0:47	1.115	0.26	0.02
12/12/14 0:48	0.987	0.26	0.02
12/12/14 0:49	1.072	0.26	0.02
12/12/14 0:50	1.072	0.26	0.02
12/12/14 0:51	1.072	0.26	0.02
12/12/14 0:52	1.029	0.22	0.015
12/12/14 0:53	1.115	0.22	0.015
12/12/14 0:54	1.029	0.22	0.015
12/12/14 0:55	1.072	0.22	0.015
12/12/14 0:56	1.072	0.22	0.015
12/12/14 0:57	0.987	0.22	0.015
12/12/14 0:58	1.115	0.22	0.015
12/12/14 0:59	1.072	0.2	0.014
12/12/14 1:00	0.944	0.21	0.012
12/12/14 1:01	0.944	0.21	0.012
12/12/14 1:02	0.987	0.21	0.012
12/12/14 1:03	1.115	0.21	0.012
12/12/14 1:04	1.029	0.21	0.012
12/12/14 1:05	0.944	0.21	0.012
12/12/14 1:06	1.115	0.21	0.012
12/12/14 1:07	1.029	0.21	0.012
12/12/14 1:08	1.115	0.21	0.016
12/12/14 1:09	1.072	0.21	0.016
12/12/14 1:10	1.072	0.21	0.016
12/12/14 1:11	0.987	0.21	0.016
12/12/14 1:12	1.115	0.27	0.02
12/12/14 1:13	1.029	0.27	0.02
12/12/14 1:14	1.115	0.27	0.02
12/12/14 1:15	1.072	0.27	0.02
12/12/14 1:16	1.115	0.27	0.02
12/12/14 1:17	1.072	0.27	0.02
12/12/14 1:18	1.029	0.27	0.02
12/12/14 1:19	0.987	0.27	0.02
12/12/14 1:20	0.987	0.27	0.02

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 1:21	1.072	0.27	0.02
12/12/14 1:22	0.987	0.27	0.02
12/12/14 1:23	0.987	0.27	0.02
12/12/14 1:24	1.072	0.27	0.02
12/12/14 1:25	1.072	0.27	0.02
12/12/14 1:26	1.115	0.27	0.02
12/12/14 1:27	1.029	0.27	0.02
12/12/14 1:28	0.987	0.27	0.02
12/12/14 1:29	1.072	0.27	0.02
12/12/14 1:30	0.987	0.27	0.02
12/12/14 1:31	0.987	0.27	0.02
12/12/14 1:32	1.072	0.23	0.016
12/12/14 1:33	0.987	0.23	0.016
12/12/14 1:34	1.072	0.23	0.016
12/12/14 1:35	1.029	0.23	0.016
12/12/14 1:36	1.029	0.23	0.016
12/12/14 1:37	1.029	0.23	0.016
12/12/14 1:38	1.072	0.23	0.016
12/12/14 1:39	1.072	0.23	0.016
12/12/14 1:40	1.072	0.23	0.016
12/12/14 1:41	1.072	0.23	0.016
12/12/14 1:42	1.115	0.23	0.016
12/12/14 1:43	1.029	0.23	0.016
12/12/14 1:44	0.987	0.23	0.014
12/12/14 1:45	1.115	0.23	0.014
12/12/14 1:46	1.029	0.23	0.014
12/12/14 1:47	1.072	0.23	0.014
12/12/14 1:48	1.029	0.24	0.016
12/12/14 1:49	1.072	0.2	0.014
12/12/14 1:50	1.115	0.3	0.023
12/12/14 1:51	1.029	0.21	0.014
12/12/14 1:52	0.987	0.21	0.014
12/12/14 1:53	1.072	0.21	0.014
12/12/14 1:54	1.072	0.21	0.014
12/12/14 1:55	1.072	0.21	0.014
12/12/14 1:56	1.072	0.21	0.014
12/12/14 1:57	1.072	0.21	0.014
12/12/14 1:58	1.115	0.21	0.014
12/12/14 1:59	1.072	0.21	0.014
12/12/14 2:00	1.072	0.21	0.014
12/12/14 2:01	0.987	0.21	0.014
12/12/14 2:02	0.987	0.21	0.014
12/12/14 2:03	1.072	0.21	0.014
12/12/14 2:04	1.072	0.21	0.014
12/12/14 2:05	1.029	0.21	0.014

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 2:06	1.029	0.21	0.014
12/12/14 2:07	1.072	0.25	0.017
12/12/14 2:08	1.072	0.25	0.017
12/12/14 2:09	1.072	0.25	0.017
12/12/14 2:10	0.944	0.25	0.017
12/12/14 2:11	1.115	0.24	0.018
12/12/14 2:12	1.115	0.24	0.018
12/12/14 2:13	1.115	0.24	0.018
12/12/14 2:14	0.987	0.25	0.015
12/12/14 2:15	0.987	0.25	0.015
12/12/14 2:16	0.987	0.25	0.015
12/12/14 2:17	0.987	0.25	0.015
12/12/14 2:18	1.072	0.25	0.015
12/12/14 2:19	1.072	0.25	0.015
12/12/14 2:20	0.987	0.25	0.015
12/12/14 2:21	1.072	0.25	0.015
12/12/14 2:22	1.072	0.25	0.015
12/12/14 2:23	1.072	0.25	0.015
12/12/14 2:24	1.072	0.25	0.015
12/12/14 2:25	0.944	0.25	0.015
12/12/14 2:26	1.115	0.25	0.015
12/12/14 2:27	1.029	0.25	0.015
12/12/14 2:28	1.115	0.25	0.015
12/12/14 2:29	1.029	0.25	0.015
12/12/14 2:30	1.072	0.25	0.015
12/12/14 2:31	1.029	0.25	0.015
12/12/14 2:32	1.157	0.25	0.015
12/12/14 2:33	1.029	0.25	0.015
12/12/14 2:34	1.072	0.25	0.015
12/12/14 2:35	1.072	0.25	0.015
12/12/14 2:36	1.029	0.25	0.015
12/12/14 2:37	1.157	0.25	0.015
12/12/14 2:38	1.072	0.25	0.015
12/12/14 2:39	1.072	0.25	0.015
12/12/14 2:40	1.072	0.25	0.015
12/12/14 2:41	1.072	0.25	0.015
12/12/14 2:42	1.072	0.25	0.015
12/12/14 2:43	1.072	0.25	0.015
12/12/14 2:44	1.029	0.25	0.015
12/12/14 2:45	1.072	0.25	0.015
12/12/14 2:46	1.115	0.25	0.015
12/12/14 2:47	1.115	0.25	0.015
12/12/14 2:48	0.944	0.25	0.015
12/12/14 2:49	1.072	0.25	0.015
12/12/14 2:50	0.944	0.25	0.015

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 2:51	1.072	0.25	0.015
12/12/14 2:52	1.115	0.25	0.015
12/12/14 2:53	1.072	0.25	0.015
12/12/14 2:54	1.115	0.25	0.015
12/12/14 2:55	1.029	0.25	0.015
12/12/14 2:56	0.987	0.25	0.015
12/12/14 2:57	1.115	0.25	0.015
12/12/14 2:58	1.072	0.25	0.015
12/12/14 2:59	1.072	0.25	0.015
12/12/14 3:00	1.029	0.25	0.015
12/12/14 3:01	1.029	0.25	0.015
12/12/14 3:02	1.072	0.25	0.015
12/12/14 3:03	1.115	0.25	0.015
12/12/14 3:04	1.072	0.25	0.015
12/12/14 3:05	1.072	0.25	0.015
12/12/14 3:06	1.072	0.25	0.015
12/12/14 3:07	1.115	0.25	0.015
12/12/14 3:08	1.072	0.25	0.015
12/12/14 3:09	1.072	0.25	0.015
12/12/14 3:10	1.072	0.25	0.015
12/12/14 3:11	1.115	0.25	0.015
12/12/14 3:12	1.029	0.25	0.015
12/12/14 3:13	1.029	0.25	0.015
12/12/14 3:14	0.987	0.25	0.015
12/12/14 3:15	1.115	0.25	0.015
12/12/14 3:16	0.944	0.25	0.015
12/12/14 3:17	1.115	0.25	0.015
12/12/14 3:18	1.029	0.25	0.015
12/12/14 3:19	1.072	0.25	0.015
12/12/14 3:20	1.072	0.25	0.015
12/12/14 3:21	1.072	0.25	0.015
12/12/14 3:22	1.029	0.25	0.015
12/12/14 3:23	1.072	0.25	0.015
12/12/14 3:24	1.072	0.25	0.015
12/12/14 3:25	1.029	0.25	0.015
12/12/14 3:26	1.157	0.25	0.015
12/12/14 3:27	1.072	0.25	0.015
12/12/14 3:28	1.029	0.25	0.015
12/12/14 3:29	1.072	0.25	0.015
12/12/14 3:30	1.029	0.25	0.015
12/12/14 3:31	1.456	0.25	0.015
12/12/14 3:32	7.039	1.36	1.56
12/12/14 3:33	11.514	2.51	5.81
12/12/14 3:34	7.056	4.61	5.287
12/12/14 3:35	6.338	5.96	5.849

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 3:36	5.386	6.95	5.384
12/12/14 3:37	5.41	7.18	5.6
12/12/14 3:38	4.063	8.31	4.253
12/12/14 3:39	7.119	8.05	9.36
12/12/14 3:40	5.281	8.03	6.04
12/12/14 3:41	12.032	6.91	17.037
12/12/14 3:42	16.385	8.43	31.925
12/12/14 3:43	16.72	6.15	23.942
12/12/14 3:44	15.064	6.8	22.959
12/12/14 3:45	7.763	7.06	9.304
12/12/14 3:46	5.992	8.8	7.963
12/12/14 3:47	6.913	9.09	10.124
12/12/14 3:48	7.048	8.5	9.739
12/12/14 3:49	7.429	7.12	8.809
12/12/14 3:50	7.922	6.91	9.378
12/12/14 3:51	7.52	6.27	7.89
12/12/14 3:52	8.043	6.11	8.471
12/12/14 3:53	7.846	6.3	8.438
12/12/14 3:54	6.738	6.29	6.75
12/12/14 3:55	5.825	5.92	5.136
12/12/14 3:56	5.676	5.97	4.994
12/12/14 3:57	5.007	5.57	3.873
12/12/14 3:58	5.229	5.62	4.167
12/12/14 3:59	5.035	5.55	3.89
12/12/14 4:00	5.424	5.44	4.257
12/12/14 4:01	5.099	5.3	3.788
12/12/14 4:02	5.289	5.57	4.202
12/12/14 4:03	5.516	5.42	4.348
12/12/14 4:04	5.619	5.03	4.145
12/12/14 4:05	6.126	4.65	4.345
12/12/14 4:06	5.827	4.37	3.796
12/12/14 4:07	7.833	3.35	4.468
12/12/14 4:08	7.485	3.25	4.065
12/12/14 4:09	8.761	3.52	5.52
12/12/14 4:10	8.261	2.18	3.149
12/12/14 4:11	8.36	2.16	3.163
12/12/14 4:12	8.36	2.17	3.183
12/12/14 4:13	7.635	2.34	3.006
12/12/14 4:14	7.55	2.34	2.968
12/12/14 4:15	7.295	2.14	2.575
12/12/14 4:16	7.55	1.96	2.475
12/12/14 4:17	7.295	2.09	2.518
12/12/14 4:18	7.124	2	2.331
12/12/14 4:19	7.039	2.02	2.309
12/12/14 4:20	7.209	1.83	2.164

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 4:21	7.039	1.82	2.078
12/12/14 4:22	6.868	1.88	2.08
12/12/14 4:23	6.74	1.86	1.996
12/12/14 4:24	6.698	1.8	1.912
12/12/14 4:25	6.655	1.73	1.821
12/12/14 4:26	6.826	1.59	1.743
12/12/14 4:27	6.655	1.77	1.869
12/12/14 4:28	6.485	1.74	1.767
12/12/14 4:29	6.399	1.55	1.549
12/12/14 4:30	6.399	1.62	1.613
12/12/14 4:31	6.399	1.64	1.63
12/12/14 4:32	6.399	1.59	1.579
12/12/14 4:33	6.357	1.55	1.526
12/12/14 4:34	6.314	1.47	1.44
12/12/14 4:35	6.186	1.6	1.519
12/12/14 4:36	6.144	1.62	1.518
12/12/14 4:37	6.272	1.66	1.602
12/12/14 4:38	6.229	1.67	1.6
12/12/14 4:39	6.229	1.65	1.58
12/12/14 4:40	6.272	1.61	1.558
12/12/14 4:41	6.357	1.79	1.766
12/12/14 4:42	6.272	1.8	1.743
12/12/14 4:43	6.442	1.68	1.687
12/12/14 4:44	6.698	1.65	1.756
12/12/14 4:45	7.039	1.75	1.998
12/12/14 4:46	7.167	1.79	2.102
12/12/14 4:47	7.209	2.58	3.054
12/12/14 4:48	7.586	1.86	2.372
12/12/14 4:49	7.721	1.97	2.574
12/12/14 4:50	7.806	2.22	2.946
12/12/14 4:51	8.147	2.31	3.259
12/12/14 4:52	8.232	2.34	3.356
12/12/14 4:53	8.445	2.22	3.299
12/12/14 4:54	8.658	2.3	3.55
12/12/14 4:55	8.53	2.53	3.818
12/12/14 4:56	8.786	2.47	3.887
12/12/14 4:57	8.839	2.59	4.123
12/12/14 4:58	9.189	2.89	4.855
12/12/14 4:59	8.875	2.43	3.893
12/12/14 5:00	9.042	2.65	4.356
12/12/14 5:01	8.855	2.72	4.342
12/12/14 5:02	8.418	2.67	3.956
12/12/14 5:03	8.521	2.51	3.789
12/12/14 5:04	8.536	2.43	3.67
12/12/14 5:05	8.147	2.43	3.431

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 5:06	8.232	2.47	3.541
12/12/14 5:07	8.658	2.56	3.953
12/12/14 5:08	8.658	2.43	3.754
12/12/14 5:09	8.445	2.28	3.398
12/12/14 5:10	8.275	2.08	3.001
12/12/14 5:11	8.104	2.2	3.089
12/12/14 5:12	8.019	2.38	3.289
12/12/14 5:13	8.19	2.35	3.346
12/12/14 5:14	7.976	2.08	2.853
12/12/14 5:15	8.062	2.08	2.894
12/12/14 5:16	8.062	2.08	2.894
12/12/14 5:17	7.891	2.38	3.207
12/12/14 5:18	7.891	2.23	3.006
12/12/14 5:19	7.465	2.22	2.769
12/12/14 5:20	8.104	1.91	2.673
12/12/14 5:21	7.763	1.97	2.602
12/12/14 5:22	8.062	1.89	2.632
12/12/14 5:23	8.019	1.94	2.684
12/12/14 5:24	8.317	2.12	3.087
12/12/14 5:25	7.891	2.01	2.714
12/12/14 5:26	8.062	2	2.777
12/12/14 5:27	8.062	2.14	2.98
12/12/14 5:28	8.104	2.37	3.321
12/12/14 5:29	8.36	2.29	3.355
12/12/14 5:30	8.147	2.28	3.228
12/12/14 5:31	8.147	2.55	3.598
12/12/14 5:32	8.53	2.41	3.636
12/12/14 5:33	8.36	2.45	3.595
12/12/14 5:34	8.275	2.54	3.673
12/12/14 5:35	8.037	2.34	3.242
12/12/14 5:36	8.232	2.08	2.987
12/12/14 5:37	8.19	2.34	3.332
12/12/14 5:38	8.232	2.26	3.247
12/12/14 5:39	8.147	2.05	2.901
12/12/14 5:40	8.104	2.23	3.132
12/12/14 5:41	7.635	1.91	2.464
12/12/14 5:42	7.635	2.11	2.713
12/12/14 5:43	7.763	2.37	3.125
12/12/14 5:44	7.678	2.19	2.841
12/12/14 5:45	7.721	2.01	2.622
12/12/14 5:46	7.806	2.18	2.901
12/12/14 5:47	7.849	2.21	2.965
12/12/14 5:48	7.806	2.49	3.303
12/12/14 5:49	7.721	2.07	2.712
12/12/14 5:50	7.721	2.24	2.935

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 5:51	7.721	2.24	2.935
12/12/14 5:52	7.721	2.24	2.935
12/12/14 5:53	7.508	2.34	2.934
12/12/14 5:54	7.422	2.34	2.886
12/12/14 5:55	7.295	2.26	2.716
12/12/14 5:56	7.422	2.15	2.653
12/12/14 5:57	7.295	2.06	2.481
12/12/14 5:58	7.167	1.96	2.296
12/12/14 5:59	7.167	1.94	2.279
12/12/14 6:00	7.167	2.02	2.374
12/12/14 6:01	7.295	2.03	2.443
12/12/14 6:02	7.167	2.19	2.568
12/12/14 6:03	7.295	1.81	2.184
12/12/14 6:04	7.38	1.98	2.422
12/12/14 6:05	7.465	1.89	2.349
12/12/14 6:06	7.38	1.96	2.4
12/12/14 6:07	7.55	2.01	2.55
12/12/14 6:08	7.465	2.47	3.083
12/12/14 6:09	7.252	1.88	2.244
12/12/14 6:10	7.039	2.07	2.367
12/12/14 6:11	7.337	2.1	2.551
12/12/14 6:12	6.996	1.8	2.045
12/12/14 6:13	7.465	1.72	2.139
12/12/14 6:14	7.209	2.03	2.409
12/12/14 6:15	7.209	1.89	2.233
12/12/14 6:16	7.38	1.89	2.321
12/12/14 6:17	7.039	1.91	2.18
12/12/14 6:18	7.337	1.91	2.315
12/12/14 6:19	7.508	1.95	2.453
12/12/14 6:20	7.38	2.01	2.456
12/12/14 6:21	7.508	2.01	2.524
12/12/14 6:22	7.422	1.87	2.31
12/12/14 6:23	7.508	2.25	2.826
12/12/14 6:24	7.252	2.09	2.494
12/12/14 6:25	7.465	1.99	2.476
12/12/14 6:26	7.295	2	2.409
12/12/14 6:27	7.593	1.94	2.479
12/12/14 6:28	7.593	2.13	2.719
12/12/14 6:29	7.593	2.03	2.593
12/12/14 6:30	7.55	2.14	2.713
12/12/14 6:31	7.508	1.79	2.248
12/12/14 6:32	7.55	2.03	2.57
12/12/14 6:33	7.678	2.23	2.893
12/12/14 6:34	7.209	2.13	2.516
12/12/14 6:35	7.678	1.77	2.301

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 6:36	7.465	2	2.492
12/12/14 6:37	7.678	1.88	2.434
12/12/14 6:38	7.806	1.96	2.602
12/12/14 6:39	7.891	2.14	2.892
12/12/14 6:40	7.849	1.86	2.488
12/12/14 6:41	7.678	2.12	2.752
12/12/14 6:42	7.763	1.99	2.621
12/12/14 6:43	7.593	2.01	2.562
12/12/14 6:44	7.849	2	2.677
12/12/14 6:45	7.593	2.14	2.727
12/12/14 6:46	7.763	2.07	2.731
12/12/14 6:47	7.593	1.96	2.503
12/12/14 6:48	7.721	2.1	2.75
12/12/14 6:49	7.593	1.91	2.437
12/12/14 6:50	7.635	2.2	2.833
12/12/14 6:51	7.209	2.07	2.456
12/12/14 6:52	7.593	1.88	2.395
12/12/14 6:53	7.465	1.91	2.378
12/12/14 6:54	7.55	1.65	2.096
12/12/14 6:55	7.635	2.04	2.628
12/12/14 6:56	7.422	2.14	2.639
12/12/14 6:57	7.209	2.02	2.394
12/12/14 6:58	7.422	1.96	2.419
12/12/14 6:59	7.252	2.06	2.459
12/12/14 7:00	7.55	1.98	2.51
12/12/14 7:01	7.465	1.9	2.362
12/12/14 7:02	7.124	1.75	2.039
12/12/14 7:03	7.337	1.99	2.416
12/12/14 7:04	7.422	1.84	2.272
12/12/14 7:05	7.508	2.12	2.659
12/12/14 7:06	7.337	1.88	2.286
12/12/14 7:07	7.337	1.91	2.325
12/12/14 7:08	7.167	1.8	2.116
12/12/14 7:09	7.081	2.06	2.371
12/12/14 7:10	7.167	1.79	2.1
12/12/14 7:11	7.039	2.02	2.313
12/12/14 7:12	7.209	2.06	2.436
12/12/14 7:13	6.783	1.83	1.983
12/12/14 7:14	7.081	1.78	2.058
12/12/14 7:15	6.996	1.76	1.993
12/12/14 7:16	7.124	1.71	1.987
12/12/14 7:17	6.996	1.66	1.879
12/12/14 7:18	6.996	1.55	1.756
12/12/14 7:19	6.954	1.48	1.659
12/12/14 7:20	6.996	1.9	2.153

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 7:21	7.039	2.02	2.305
12/12/14 7:22	7.252	2.02	2.407
12/12/14 7:23	7.337	1.93	2.348
12/12/14 7:24	7.295	1.99	2.396
12/12/14 7:25	7.508	2.12	2.656
12/12/14 7:26	7.763	2.06	2.71
12/12/14 7:27	7.721	2.34	3.056
12/12/14 7:28	7.849	2.06	2.76
12/12/14 7:29	8.275	2	2.891
12/12/14 7:30	8.147	2.51	3.543
12/12/14 7:31	8.278	2.38	3.449
12/12/14 7:32	8.658	2.51	3.874
12/12/14 7:33	8.791	2.28	3.591
12/12/14 7:34	8.488	2.57	3.856
12/12/14 7:35	8.861	2.55	4.071
12/12/14 7:36	8.852	2.68	4.273
12/12/14 7:37	8.911	3	4.822
12/12/14 7:38	8.754	3.5	5.479
12/12/14 7:39	8.891	2.53	4.05
12/12/14 7:40	8.841	2.56	4.068
12/12/14 7:41	8.386	2.28	3.36
12/12/14 7:42	8.19	2.71	3.865
12/12/14 7:43	8.328	2.32	3.38
12/12/14 7:44	8.062	2.11	2.933
12/12/14 7:45	7.891	2.09	2.815
12/12/14 7:46	8.147	2.21	3.126
12/12/14 7:47	7.763	2.25	2.965
12/12/14 7:48	7.849	2.03	2.723
12/12/14 7:49	7.891	1.97	2.656
12/12/14 7:50	7.635	1.92	2.475
12/12/14 7:51	7.465	1.98	2.461
12/12/14 7:52	7.039	1.98	2.265
12/12/14 7:53	7.167	1.84	2.16
12/12/14 7:54	7.124	1.81	2.11
12/12/14 7:55	6.996	1.78	2.023
12/12/14 7:56	6.868	1.85	2.044
12/12/14 7:57	6.74	1.56	1.672
12/12/14 7:58	6.698	1.66	1.764
12/12/14 7:59	6.442	1.69	1.7
12/12/14 8:00	6.357	1.71	1.688
12/12/14 8:01	6.144	1.61	1.508
12/12/14 8:02	6.144	1.53	1.433
12/12/14 8:03	5.973	1.48	1.333
12/12/14 8:04	6.186	1.44	1.369
12/12/14 8:05	6.016	1.44	1.314

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 8:06	5.718	1.4	1.186
12/12/14 8:07	5.718	1.43	1.21
12/12/14 8:08	5.59	1.41	1.153
12/12/14 8:09	5.419	1.48	1.158
12/12/14 8:10	5.59	1.59	1.3
12/12/14 8:11	5.419	1.6	1.247
12/12/14 8:12	5.377	1.34	1.037
12/12/14 8:13	5.334	1.47	1.123
12/12/14 8:14	5.164	1.28	0.932
12/12/14 8:15	5.164	1.34	0.972
12/12/14 8:16	5.078	1.28	0.911
12/12/14 8:17	5.036	1.38	0.97
12/12/14 8:18	4.908	1.17	0.792
12/12/14 8:19	4.908	1.28	0.864
12/12/14 8:20	4.78	1.2	0.781
12/12/14 8:21	4.865	1.23	0.819
12/12/14 8:22	4.823	1.11	0.732
12/12/14 8:23	4.695	1.29	0.816
12/12/14 8:24	4.695	1.12	0.707
12/12/14 8:25	4.695	1.12	0.709
12/12/14 8:26	4.737	1.2	0.769
12/12/14 8:27	4.737	1.28	0.821
12/12/14 8:28	4.78	1.29	0.838
12/12/14 8:29	4.95	1.29	0.885
12/12/14 8:30	5.036	1.29	0.906
12/12/14 8:31	4.95	1.29	0.883
12/12/14 8:32	5.078	1.29	0.918
12/12/14 8:33	5.121	1.31	0.939
12/12/14 8:34	5.121	1.26	0.906
12/12/14 8:35	5.078	1.27	0.899
12/12/14 8:36	5.121	1.24	0.893
12/12/14 8:37	5.164	1.25	0.91
12/12/14 8:38	5.164	1.34	0.978
12/12/14 8:39	5.078	1.37	0.975
12/12/14 8:40	5.078	1.31	0.928
12/12/14 8:41	4.993	1.16	0.805
12/12/14 8:42	4.993	1.13	0.784
12/12/14 8:43	4.95	1.26	0.866
12/12/14 8:44	4.823	1.17	0.773
12/12/14 8:45	4.908	1.21	0.818
12/12/14 8:46	4.823	1.14	0.752
12/12/14 8:47	4.737	1.2	0.768
12/12/14 8:48	4.78	1.16	0.751
12/12/14 8:49	4.695	1.16	0.734
12/12/14 8:50	4.737	1.13	0.728

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 8:51	4.695	1.2	0.759
12/12/14 8:52	4.652	1.04	0.65
12/12/14 8:53	4.524	1	0.6
12/12/14 8:54	4.396	1.11	0.639
12/12/14 8:55	4.439	1.07	0.624
12/12/14 8:56	4.439	1.06	0.619
12/12/14 8:57	4.396	1	0.575
12/12/14 8:58	4.311	0.97	0.541
12/12/14 8:59	4.226	1.04	0.563
12/12/14 9:00	4.269	0.95	0.526
12/12/14 9:01	4.183	0.92	0.494
12/12/14 9:02	4.226	0.98	0.53
12/12/14 9:03	4.141	1	0.528
12/12/14 9:04	4.141	1.01	0.531
12/12/14 9:05	4.013	0.93	0.469
12/12/14 9:06	4.055	0.92	0.471
12/12/14 9:07	4.013	0.94	0.47
12/12/14 9:08	3.97	0.89	0.438
12/12/14 9:09	3.928	0.9	0.439
12/12/14 9:10	3.928	0.9	0.44
12/12/14 9:11	3.928	0.94	0.458
12/12/14 9:12	3.885	0.86	0.413
12/12/14 9:13	3.842	0.92	0.434
12/12/14 9:14	3.842	0.95	0.45
12/12/14 9:15	3.8	0.94	0.437
12/12/14 9:16	3.8	0.91	0.421
12/12/14 9:17	3.757	0.95	0.434
12/12/14 9:18	3.757	0.8	0.363
12/12/14 9:19	3.757	0.87	0.395
12/12/14 9:20	3.714	0.92	0.414
12/12/14 9:21	3.757	0.88	0.403
12/12/14 9:22	3.672	0.89	0.395
12/12/14 9:23	3.714	0.89	0.4
12/12/14 9:24	3.587	0.88	0.374
12/12/14 9:25	3.8	0.88	0.41
12/12/14 9:26	3.757	0.89	0.405
12/12/14 9:27	3.714	0.87	0.39
12/12/14 9:28	3.714	0.93	0.415
12/12/14 9:29	3.714	0.93	0.418
12/12/14 9:30	3.757	0.89	0.405
12/12/14 9:31	3.757	0.93	0.425
12/12/14 9:32	3.714	0.9	0.402
12/12/14 9:33	3.757	0.84	0.381
12/12/14 9:34	3.8	0.96	0.447
12/12/14 9:35	3.8	0.89	0.414

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 9:36	3.757	0.89	0.407
12/12/14 9:37	3.8	0.88	0.407
12/12/14 9:38	3.757	0.83	0.379
12/12/14 9:39	3.672	0.87	0.382
12/12/14 9:40	3.757	0.82	0.376
12/12/14 9:41	3.672	0.91	0.402
12/12/14 9:42	3.714	0.83	0.37
12/12/14 9:43	3.672	0.88	0.389
12/12/14 9:44	3.757	0.82	0.373
12/12/14 9:45	3.672	0.84	0.369
12/12/14 9:46	3.672	0.84	0.369
12/12/14 9:47	3.672	0.9	0.399
12/12/14 9:48	3.672	0.77	0.341
12/12/14 9:49	3.629	0.81	0.352
12/12/14 9:50	3.544	0.85	0.355
12/12/14 9:51	3.587	0.9	0.385
12/12/14 9:52	3.501	0.84	0.344
12/12/14 9:53	3.501	0.81	0.333
12/12/14 9:54	3.373	0.73	0.284
12/12/14 9:55	3.501	0.75	0.307
12/12/14 9:56	3.459	0.8	0.323
12/12/14 9:57	3.416	0.75	0.296
12/12/14 9:58	3.459	0.77	0.31
12/12/14 9:59	3.416	0.74	0.294
12/12/14 10:00	3.373	0.73	0.285
12/12/14 10:01	3.373	0.7	0.271
12/12/14 10:02	3.203	0.71	0.255
12/12/14 10:03	3.288	0.66	0.248
12/12/14 10:04	3.331	0.72	0.274
12/12/14 10:05	3.331	0.7	0.268
12/12/14 10:06	3.331	0.68	0.26
12/12/14 10:07	3.288	0.67	0.251
12/12/14 10:08	3.203	0.69	0.247
12/12/14 10:09	3.203	0.68	0.243
12/12/14 10:10	3.16	0.61	0.214
12/12/14 10:11	3.203	0.68	0.246
12/12/14 10:12	3.203	0.66	0.236
12/12/14 10:13	3.203	0.61	0.218
12/12/14 10:14	3.075	0.7	0.237
12/12/14 10:15	3.118	0.61	0.212
12/12/14 10:16	3.033	0.61	0.202
12/12/14 10:17	3.16	0.58	0.205
12/12/14 10:18	3.075	0.59	0.2
12/12/14 10:19	3.075	0.57	0.193
12/12/14 10:20	3.033	0.57	0.19

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 10:21	3.075	0.67	0.226
12/12/14 10:22	3.033	0.57	0.19
12/12/14 10:23	3.033	0.6	0.198
12/12/14 10:24	2.99	0.65	0.211
12/12/14 10:25	2.947	0.6	0.19
12/12/14 10:26	2.947	0.61	0.194
12/12/14 10:27	2.99	0.6	0.194
12/12/14 10:28	2.947	0.57	0.183
12/12/14 10:29	2.99	0.59	0.193
12/12/14 10:30	2.99	0.62	0.202
12/12/14 10:31	2.99	0.58	0.19
12/12/14 10:32	2.947	0.59	0.188
12/12/14 10:33	2.947	0.59	0.189
12/12/14 10:34	2.862	0.57	0.175
12/12/14 10:35	2.777	0.51	0.15
12/12/14 10:36	2.819	0.58	0.174
12/12/14 10:37	2.862	0.54	0.165
12/12/14 10:38	2.862	0.54	0.165
12/12/14 10:39	2.862	0.55	0.168
12/12/14 10:40	2.862	0.53	0.161
12/12/14 10:41	2.819	0.52	0.157
12/12/14 10:42	2.734	0.53	0.15
12/12/14 10:43	2.692	0.51	0.143
12/12/14 10:44	2.819	0.52	0.156
12/12/14 10:45	2.692	0.48	0.134
12/12/14 10:46	2.819	0.54	0.16
12/12/14 10:47	2.777	0.55	0.16
12/12/14 10:48	2.649	0.5	0.136
12/12/14 10:49	2.649	0.54	0.147
12/12/14 10:50	2.734	0.56	0.161
12/12/14 10:51	2.734	0.5	0.143
12/12/14 10:52	2.649	0.52	0.141
12/12/14 10:53	2.734	0.47	0.135
12/12/14 10:54	2.692	0.49	0.137
12/12/14 10:55	2.692	0.47	0.13
12/12/14 10:56	2.692	0.47	0.131
12/12/14 10:57	2.606	0.49	0.129
12/12/14 10:58	2.606	0.48	0.127
12/12/14 10:59	2.521	0.46	0.117
12/12/14 11:00	2.649	0.41	0.111
12/12/14 11:01	2.649	0.45	0.122
12/12/14 11:02	2.478	0.48	0.119
12/12/14 11:03	2.606	0.45	0.12
12/12/14 11:04	2.649	0.44	0.12
12/12/14 11:05	2.521	0.47	0.12

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 11:06	2.478	0.44	0.109
12/12/14 11:07	2.606	0.47	0.125
12/12/14 11:08	2.521	0.4	0.102
12/12/14 11:09	2.606	0.45	0.12
12/12/14 11:10	2.478	0.43	0.106
12/12/14 11:11	2.521	0.46	0.117
12/12/14 11:12	2.436	0.42	0.102
12/12/14 11:13	2.564	0.4	0.104
12/12/14 11:14	2.478	0.44	0.109
12/12/14 11:15	2.564	0.42	0.11
12/12/14 11:16	2.393	0.42	0.098
12/12/14 11:17	2.436	0.46	0.11
12/12/14 11:18	2.393	0.41	0.096
12/12/14 11:19	2.436	0.38	0.091
12/12/14 11:20	2.436	0.39	0.093
12/12/14 11:21	2.436	0.46	0.109
12/12/14 11:22	2.478	0.41	0.101
12/12/14 11:23	2.478	0.41	0.102
12/12/14 11:24	2.521	0.4	0.101
12/12/14 11:25	2.436	0.38	0.092
12/12/14 11:26	2.521	0.37	0.094
12/12/14 11:27	2.436	0.39	0.093
12/12/14 11:28	2.478	0.39	0.097
12/12/14 11:29	2.478	0.4	0.098
12/12/14 11:30	2.478	0.38	0.094
12/12/14 11:31	2.436	0.36	0.086
12/12/14 11:32	2.478	0.4	0.099
12/12/14 11:33	2.436	0.38	0.091
12/12/14 11:34	2.436	0.38	0.092
12/12/14 11:35	2.436	0.39	0.094
12/12/14 11:36	2.478	0.4	0.098
12/12/14 11:37	2.351	0.35	0.079
12/12/14 11:38	2.436	0.36	0.086
12/12/14 11:39	2.436	0.38	0.092
12/12/14 11:40	2.393	0.39	0.091
12/12/14 11:41	2.393	0.37	0.087
12/12/14 11:42	2.436	0.33	0.079
12/12/14 11:43	2.351	0.33	0.076
12/12/14 11:44	2.308	0.33	0.073
12/12/14 11:45	2.393	0.37	0.086
12/12/14 11:46	2.265	0.35	0.076
12/12/14 11:47	2.393	0.32	0.075
12/12/14 11:48	2.351	0.3	0.069
12/12/14 11:49	2.351	0.3	0.068
12/12/14 11:50	2.351	0.3	0.069

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 11:51	2.308	0.34	0.075
12/12/14 11:52	2.308	0.31	0.068
12/12/14 11:53	2.308	0.31	0.068
12/12/14 11:54	2.18	0.29	0.059
12/12/14 11:55	2.18	0.29	0.06
12/12/14 11:56	2.265	0.34	0.074
12/12/14 11:57	2.308	0.29	0.065
12/12/14 11:58	2.308	0.32	0.071
12/12/14 11:59	2.223	0.26	0.055
12/12/14 12:00	2.308	0.31	0.068
12/12/14 12:01	2.223	0.33	0.069
12/12/14 12:02	2.223	0.3	0.062
12/12/14 12:03	2.223	0.28	0.06
12/12/14 12:04	2.223	0.33	0.069
12/12/14 12:05	2.18	0.29	0.06
12/12/14 12:06	2.265	0.31	0.066
12/12/14 12:07	2.265	0.3	0.065
12/12/14 12:08	2.265	0.29	0.063
12/12/14 12:09	2.223	0.32	0.066
12/12/14 12:10	2.223	0.28	0.059
12/12/14 12:11	2.138	0.3	0.059
12/12/14 12:12	2.223	0.3	0.064
12/12/14 12:13	2.223	0.31	0.065
12/12/14 12:14	2.223	0.29	0.06
12/12/14 12:15	2.223	0.28	0.058
12/12/14 12:16	2.138	0.28	0.056
12/12/14 12:17	2.223	0.25	0.053
12/12/14 12:18	2.095	0.29	0.056
12/12/14 12:19	2.18	0.29	0.06
12/12/14 12:20	2.095	0.31	0.06
12/12/14 12:21	2.138	0.27	0.054
12/12/14 12:22	2.095	0.32	0.061
12/12/14 12:23	2.18	0.32	0.065
12/12/14 12:24	2.052	0.27	0.051
12/12/14 12:25	2.18	0.27	0.056
12/12/14 12:26	2.18	0.28	0.058
12/12/14 12:27	2.18	0.27	0.056
12/12/14 12:28	2.18	0.22	0.045
12/12/14 12:29	2.18	0.25	0.051
12/12/14 12:30	2.052	0.28	0.052
12/12/14 12:31	2.138	0.26	0.051
12/12/14 12:32	2.18	0.27	0.056
12/12/14 12:33	2.18	0.22	0.044
12/12/14 12:34	2.138	0.27	0.053
12/12/14 12:35	2.052	0.28	0.052

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 12:36	2.095	0.24	0.047
12/12/14 12:37	2.18	0.25	0.05
12/12/14 12:38	2.095	0.25	0.048
12/12/14 12:39	2.052	0.27	0.05
12/12/14 12:40	2.138	0.25	0.049
12/12/14 12:41	2.138	0.27	0.053
12/12/14 12:42	2.138	0.25	0.049
12/12/14 12:43	2.138	0.23	0.045
12/12/14 12:44	2.138	0.28	0.055
12/12/14 12:45	2.138	0.22	0.043
12/12/14 12:46	2.138	0.26	0.052
12/12/14 12:47	2.052	0.24	0.045
12/12/14 12:48	2.052	0.26	0.048
12/12/14 12:49	2.138	0.26	0.051
12/12/14 12:50	2.095	0.25	0.048
12/12/14 12:51	2.138	0.28	0.054
12/12/14 12:52	2.052	0.24	0.045
12/12/14 12:53	2.01	0.24	0.045
12/12/14 12:54	2.095	0.26	0.05
12/12/14 12:55	2.095	0.26	0.05
12/12/14 12:56	2.138	0.24	0.047
12/12/14 12:57	2.095	0.25	0.048
12/12/14 12:58	2.138	0.24	0.047
12/12/14 12:59	2.095	0.26	0.05
12/12/14 13:00	2.01	0.22	0.04
12/12/14 13:01	2.01	0.25	0.046
12/12/14 13:02	2.095	0.23	0.044
12/12/14 13:03	2.052	0.27	0.05
12/12/14 13:04	2.095	0.22	0.042
12/12/14 13:05	2.095	0.22	0.042
12/12/14 13:06	2.095	0.24	0.046
12/12/14 13:07	2.052	0.25	0.046
12/12/14 13:08	2.095	0.26	0.05
12/12/14 13:09	2.095	0.26	0.05
12/12/14 13:10	2.095	0.24	0.046
12/12/14 13:11	2.01	0.24	0.044
12/12/14 13:12	2.052	0.26	0.048
12/12/14 13:13	2.095	0.25	0.048
12/12/14 13:14	2.052	0.24	0.045
12/12/14 13:15	2.052	0.25	0.046
12/12/14 13:16	2.095	0.23	0.045
12/12/14 13:17	2.095	0.25	0.048
12/12/14 13:18	2.095	0.23	0.044
12/12/14 13:19	2.095	0.23	0.044
12/12/14 13:20	1.967	0.26	0.046

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 13:21	2.01	0.24	0.043
12/12/14 13:22	2.095	0.21	0.04
12/12/14 13:23	2.095	0.22	0.043
12/12/14 13:24	2.052	0.24	0.044
12/12/14 13:25	2.052	0.21	0.039
12/12/14 13:26	2.052	0.21	0.038
12/12/14 13:27	2.095	0.21	0.04
12/12/14 13:28	2.095	0.21	0.04
12/12/14 13:29	2.052	0.23	0.043
12/12/14 13:30	2.052	0.24	0.045
12/12/14 13:31	2.052	0.23	0.043
12/12/14 13:32	2.052	0.24	0.044
12/12/14 13:33	2.052	0.23	0.043
12/12/14 13:34	2.095	0.23	0.043
12/12/14 13:35	2.052	0.23	0.042
12/12/14 13:36	2.052	0.21	0.039
12/12/14 13:37	2.052	0.21	0.039
12/12/14 13:38	2.052	0.22	0.041
12/12/14 13:39	2.052	0.22	0.041
12/12/14 13:40	2.052	0.22	0.041
12/12/14 13:41	2.01	0.21	0.038
12/12/14 13:42	2.01	0.21	0.038
12/12/14 13:43	2.052	0.24	0.044
12/12/14 13:44	2.052	0.24	0.044
12/12/14 13:45	2.052	0.24	0.044
12/12/14 13:46	2.052	0.25	0.046
12/12/14 13:47	2.052	0.2	0.038
12/12/14 13:48	2.052	0.25	0.046
12/12/14 13:49	2.052	0.21	0.039
12/12/14 13:50	1.967	0.2	0.036
12/12/14 13:51	1.967	0.23	0.041
12/12/14 13:52	2.052	0.23	0.044
12/12/14 13:53	2.052	0.23	0.044
12/12/14 13:54	2.01	0.23	0.044
12/12/14 13:55	2.052	0.23	0.044
12/12/14 13:56	2.052	0.2	0.038
12/12/14 13:57	2.052	0.22	0.04
12/12/14 13:58	1.924	0.2	0.035
12/12/14 13:59	1.924	0.2	0.035
12/12/14 14:00	2.052	0.2	0.038
12/12/14 14:01	2.01	0.2	0.036
12/12/14 14:02	2.052	0.21	0.039
12/12/14 14:03	1.924	0.21	0.035
12/12/14 14:04	1.882	0.21	0.035
12/12/14 14:05	1.882	0.21	0.035

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 14:06	1.967	0.21	0.035
12/12/14 14:07	1.967	0.2	0.035
12/12/14 14:08	2.01	0.2	0.035
12/12/14 14:09	1.882	0.2	0.035
12/12/14 14:10	1.882	0.21	0.034
12/12/14 14:11	2.01	0.21	0.034
12/12/14 14:12	1.967	0.21	0.037
12/12/14 14:13	1.967	0.21	0.037
12/12/14 14:14	1.967	0.21	0.037
12/12/14 14:15	1.967	0.21	0.037
12/12/14 14:16	1.967	0.21	0.037
12/12/14 14:17	2.01	0.21	0.037
12/12/14 14:18	1.967	0.21	0.037
12/12/14 14:19	1.967	0.21	0.037
12/12/14 14:20	1.967	0.21	0.037
12/12/14 14:21	1.967	0.21	0.037
12/12/14 14:22	1.967	0.21	0.037
12/12/14 14:23	1.967	0.21	0.037
12/12/14 14:24	1.967	0.2	0.035
12/12/14 14:25	1.967	0.2	0.035
12/12/14 14:26	1.967	0.2	0.035
12/12/14 14:27	1.967	0.2	0.035
12/12/14 14:28	1.967	0.2	0.035
12/12/14 14:29	1.967	0.2	0.035
12/12/14 14:30	1.967	0.2	0.035
12/12/14 14:31	1.967	0.2	0.035
12/12/14 14:32	1.967	0.2	0.035
12/12/14 14:33	1.924	0.2	0.035
12/12/14 14:34	1.882	0.2	0.035
12/12/14 14:35	1.967	0.2	0.035
12/12/14 14:36	1.924	0.2	0.035
12/12/14 14:37	1.967	0.2	0.035
12/12/14 14:38	1.924	0.2	0.035
12/12/14 14:39	1.924	0.2	0.035
12/12/14 14:40	1.967	0.2	0.035
12/12/14 14:41	1.967	0.2	0.035
12/12/14 14:42	1.967	0.2	0.035
12/12/14 14:43	1.882	0.2	0.035
12/12/14 14:44	1.967	0.2	0.035
12/12/14 14:45	1.924	0.2	0.035
12/12/14 14:46	1.924	0.2	0.035
12/12/14 14:47	1.924	0.2	0.035
12/12/14 14:48	1.924	0.2	0.035
12/12/14 14:49	1.924	0.2	0.035
12/12/14 14:50	1.924	0.2	0.035

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 14:51	1.967	0.2	0.035
12/12/14 14:52	1.839	0.2	0.035
12/12/14 14:53	1.839	0.2	0.035
12/12/14 14:54	1.924	0.2	0.035
12/12/14 14:55	1.839	0.2	0.035
12/12/14 14:56	1.967	0.2	0.035
12/12/14 14:57	1.924	0.2	0.035
12/12/14 14:58	1.967	0.2	0.035
12/12/14 14:59	1.924	0.2	0.035
12/12/14 15:00	1.882	0.2	0.035
12/12/14 15:01	1.924	0.2	0.035
12/12/14 15:02	1.924	0.2	0.035
12/12/14 15:03	1.924	0.2	0.035
12/12/14 15:04	1.924	0.2	0.035
12/12/14 15:05	1.882	0.2	0.035
12/12/14 15:06	1.839	0.2	0.035
12/12/14 15:07	1.924	0.2	0.035
12/12/14 15:08	1.924	0.2	0.035
12/12/14 15:09	1.839	0.2	0.035
12/12/14 15:10	1.882	0.2	0.035
12/12/14 15:11	1.924	0.2	0.035
12/12/14 15:12	1.924	0.2	0.035
12/12/14 15:13	1.882	0.2	0.035
12/12/14 15:14	1.924	0.2	0.035
12/12/14 15:15	1.924	0.2	0.035
12/12/14 15:16	1.924	0.2	0.035
12/12/14 15:17	1.924	0.2	0.035
12/12/14 15:18	1.924	0.2	0.035
12/12/14 15:19	1.924	0.2	0.035
12/12/14 15:20	1.924	0.2	0.035
12/12/14 15:21	1.967	0.2	0.035
12/12/14 15:22	1.797	0.2	0.035
12/12/14 15:23	1.924	0.2	0.035
12/12/14 15:24	1.924	0.2	0.035
12/12/14 15:25	1.882	0.2	0.035
12/12/14 15:26	1.839	0.2	0.035
12/12/14 15:27	1.924	0.2	0.035
12/12/14 15:28	1.924	0.2	0.035
12/12/14 15:29	1.924	0.2	0.035
12/12/14 15:30	1.924	0.2	0.035
12/12/14 15:31	1.882	0.2	0.035
12/12/14 15:32	1.839	0.2	0.035
12/12/14 15:33	1.967	0.2	0.035
12/12/14 15:34	1.924	0.2	0.035
12/12/14 15:35	1.967	0.2	0.035

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 15:36	1.839	0.2	0.035
12/12/14 15:37	1.924	0.2	0.035
12/12/14 15:38	1.967	0.2	0.035
12/12/14 15:39	1.882	0.2	0.035
12/12/14 15:40	1.924	0.2	0.035
12/12/14 15:41	1.924	0.2	0.035
12/12/14 15:42	1.839	0.2	0.035
12/12/14 15:43	1.967	0.2	0.035
12/12/14 15:44	1.924	0.2	0.035
12/12/14 15:45	1.924	0.2	0.035
12/12/14 15:46	1.924	0.2	0.035
12/12/14 15:47	1.967	0.2	0.035
12/12/14 15:48	1.924	0.2	0.035
12/12/14 15:49	1.967	0.2	0.035
12/12/14 15:50	1.924	0.2	0.035
12/12/14 15:51	1.924	0.2	0.035
12/12/14 15:52	1.882	0.2	0.035
12/12/14 15:53	1.924	0.2	0.035
12/12/14 15:54	1.924	0.2	0.035
12/12/14 15:55	1.924	0.2	0.035
12/12/14 15:56	1.967	0.2	0.035
12/12/14 15:57	1.924	0.2	0.035
12/12/14 15:58	1.839	0.2	0.035
12/12/14 15:59	1.924	0.2	0.035
12/12/14 16:00	1.839	0.2	0.035
12/12/14 16:01	1.839	0.2	0.035
12/12/14 16:02	1.924	0.2	0.035
12/12/14 16:03	1.839	0.2	0.035
12/12/14 16:04	1.967	0.2	0.035
12/12/14 16:05	1.924	0.2	0.035
12/12/14 16:06	1.924	0.2	0.035
12/12/14 16:07	1.882	0.2	0.035
12/12/14 16:08	1.924	0.2	0.035
12/12/14 16:09	1.882	0.2	0.035
12/12/14 16:10	1.839	0.2	0.035
12/12/14 16:11	1.839	0.2	0.035
12/12/14 16:12	1.924	0.2	0.035
12/12/14 16:13	1.924	0.2	0.035
12/12/14 16:14	1.924	0.2	0.035
12/12/14 16:15	1.839	0.2	0.035
12/12/14 16:16	1.924	0.2	0.035
12/12/14 16:17	1.924	0.2	0.035
12/12/14 16:18	1.924	0.2	0.035
12/12/14 16:19	1.924	0.2	0.035
12/12/14 16:20	1.797	0.2	0.035

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 16:21	1.839	0.2	0.035
12/12/14 16:22	1.924	0.2	0.035
12/12/14 16:23	1.924	0.2	0.035
12/12/14 16:24	1.882	0.2	0.035
12/12/14 16:25	1.882	0.2	0.035
12/12/14 16:26	1.882	0.2	0.035
12/12/14 16:27	1.882	0.2	0.035
12/12/14 16:28	1.924	0.2	0.035
12/12/14 16:29	1.797	0.2	0.035
12/12/14 16:30	1.882	0.2	0.035
12/12/14 16:31	1.882	0.2	0.035
12/12/14 16:32	1.924	0.2	0.035
12/12/14 16:33	1.797	0.2	0.035
12/12/14 16:34	1.924	0.2	0.035
12/12/14 16:35	1.839	0.2	0.035
12/12/14 16:36	1.882	0.2	0.035
12/12/14 16:37	1.882	0.2	0.035
12/12/14 16:38	1.839	0.2	0.035
12/12/14 16:39	1.882	0.2	0.035
12/12/14 16:40	1.882	0.2	0.035
12/12/14 16:41	1.797	0.2	0.035
12/12/14 16:42	1.882	0.2	0.035
12/12/14 16:43	1.882	0.2	0.035
12/12/14 16:44	1.882	0.2	0.035
12/12/14 16:45	1.797	0.2	0.035
12/12/14 16:46	1.797	0.2	0.035
12/12/14 16:47	1.882	0.2	0.035
12/12/14 16:48	1.882	0.2	0.035
12/12/14 16:49	1.797	0.2	0.035
12/12/14 16:50	1.882	0.2	0.035
12/12/14 16:51	1.882	0.2	0.035
12/12/14 16:52	1.797	0.2	0.035
12/12/14 16:53	1.882	0.2	0.035
12/12/14 16:54	1.882	0.2	0.035
12/12/14 16:55	1.754	0.2	0.035
12/12/14 16:56	1.797	0.2	0.035
12/12/14 16:57	1.882	0.2	0.035
12/12/14 16:58	1.882	0.2	0.035
12/12/14 16:59	1.797	0.2	0.035
12/12/14 17:00	1.797	0.2	0.035
12/12/14 17:01	1.882	0.2	0.035
12/12/14 17:02	1.882	0.2	0.035
12/12/14 17:03	1.839	0.2	0.035
12/12/14 17:04	1.797	0.2	0.035
12/12/14 17:05	1.797	0.2	0.035

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 17:06	1.839	0.2	0.035
12/12/14 17:07	1.839	0.2	0.035
12/12/14 17:08	1.882	0.2	0.035
12/12/14 17:09	1.839	0.2	0.035
12/12/14 17:10	1.882	0.2	0.035
12/12/14 17:11	1.797	0.2	0.035
12/12/14 17:12	1.797	0.2	0.035
12/12/14 17:13	1.797	0.2	0.035
12/12/14 17:14	1.882	0.2	0.035
12/12/14 17:15	1.839	0.2	0.035
12/12/14 17:16	1.882	0.2	0.035
12/12/14 17:17	1.882	0.2	0.035
12/12/14 17:18	1.754	0.2	0.035
12/12/14 17:19	1.839	0.2	0.035
12/12/14 17:20	1.839	0.2	0.035
12/12/14 17:21	1.882	0.2	0.035
12/12/14 17:22	1.839	0.2	0.035
12/12/14 17:23	1.882	0.2	0.035
12/12/14 17:24	1.839	0.2	0.035
12/12/14 17:25	1.839	0.2	0.035
12/12/14 17:26	1.839	0.2	0.035
12/12/14 17:27	1.839	0.2	0.035
12/12/14 17:28	1.882	0.2	0.035
12/12/14 17:29	1.839	0.2	0.035
12/12/14 17:30	1.882	0.2	0.035
12/12/14 17:31	1.797	0.2	0.035
12/12/14 17:32	1.839	0.2	0.035
12/12/14 17:33	1.797	0.2	0.035
12/12/14 17:34	1.882	0.2	0.035
12/12/14 17:35	1.797	0.2	0.035
12/12/14 17:36	1.754	0.2	0.035
12/12/14 17:37	1.754	0.2	0.035
12/12/14 17:38	1.797	0.2	0.035
12/12/14 17:39	1.754	0.2	0.035
12/12/14 17:40	1.839	0.2	0.035
12/12/14 17:41	1.839	0.2	0.035
12/12/14 17:42	1.711	0.2	0.035
12/12/14 17:43	1.839	0.2	0.035
12/12/14 17:44	1.754	0.2	0.035
12/12/14 17:45	1.839	0.2	0.035
12/12/14 17:46	1.754	0.2	0.035
12/12/14 17:47	1.839	0.2	0.035
12/12/14 17:48	1.711	0.2	0.035
12/12/14 17:49	1.839	0.2	0.035
12/12/14 17:50	1.839	0.2	0.035

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 17:51	1.839	0.2	0.035
12/12/14 17:52	1.797	0.2	0.035
12/12/14 17:53	1.839	0.2	0.035
12/12/14 17:54	1.839	0.2	0.035
12/12/14 17:55	1.839	0.2	0.035
12/12/14 17:56	1.754	0.2	0.035
12/12/14 17:57	1.797	0.2	0.035
12/12/14 17:58	1.839	0.2	0.035
12/12/14 17:59	1.797	0.2	0.035
12/12/14 18:00	1.797	0.2	0.035
12/12/14 18:01	1.797	0.2	0.035
12/12/14 18:02	1.797	0.2	0.035
12/12/14 18:03	1.797	0.2	0.035
12/12/14 18:04	1.754	0.2	0.035
12/12/14 18:05	1.797	0.2	0.035
12/12/14 18:06	1.839	0.2	0.035
12/12/14 18:07	1.797	0.2	0.035
12/12/14 18:08	1.839	0.2	0.035
12/12/14 18:09	1.839	0.2	0.035
12/12/14 18:10	1.797	0.2	0.035
12/12/14 18:11	1.797	0.2	0.035
12/12/14 18:12	1.797	0.2	0.035
12/12/14 18:13	1.754	0.2	0.035
12/12/14 18:14	1.711	0.2	0.035
12/12/14 18:15	1.839	0.2	0.035
12/12/14 18:16	1.797	0.2	0.035
12/12/14 18:17	1.797	0.2	0.035
12/12/14 18:18	1.797	0.2	0.035
12/12/14 18:19	1.839	0.2	0.035
12/12/14 18:20	1.797	0.2	0.035
12/12/14 18:21	1.797	0.2	0.035
12/12/14 18:22	1.797	0.2	0.035
12/12/14 18:23	1.711	0.2	0.035
12/12/14 18:24	1.754	0.2	0.035
12/12/14 18:25	1.754	0.2	0.035
12/12/14 18:26	1.797	0.2	0.035
12/12/14 18:27	1.839	0.2	0.035
12/12/14 18:28	1.882	0.2	0.035
12/12/14 18:29	1.711	0.2	0.035
12/12/14 18:30	1.797	0.2	0.035
12/12/14 18:31	1.839	0.2	0.035
12/12/14 18:32	1.754	0.2	0.035
12/12/14 18:33	1.839	0.2	0.035
12/12/14 18:34	1.754	0.2	0.035
12/12/14 18:35	1.839	0.2	0.035

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 18:36	1.839	0.2	0.035
12/12/14 18:37	1.839	0.2	0.035
12/12/14 18:38	1.839	0.2	0.035
12/12/14 18:39	1.839	0.2	0.035
12/12/14 18:40	1.797	0.2	0.035
12/12/14 18:41	1.839	0.2	0.035
12/12/14 18:42	1.839	0.2	0.035
12/12/14 18:43	1.839	0.2	0.035
12/12/14 18:44	1.754	0.2	0.035
12/12/14 18:45	1.839	0.2	0.035
12/12/14 18:46	1.797	0.2	0.035
12/12/14 18:47	1.839	0.2	0.035
12/12/14 18:48	1.839	0.2	0.035
12/12/14 18:49	1.839	0.2	0.035
12/12/14 18:50	1.839	0.2	0.035
12/12/14 18:51	1.839	0.2	0.035
12/12/14 18:52	1.797	0.2	0.035
12/12/14 18:53	1.797	0.2	0.035
12/12/14 18:54	1.839	0.2	0.035
12/12/14 18:55	1.839	0.2	0.035
12/12/14 18:56	1.797	0.2	0.035
12/12/14 18:57	1.754	0.2	0.035
12/12/14 18:58	1.839	0.2	0.035
12/12/14 18:59	1.839	0.2	0.035
12/12/14 19:00	1.839	0.2	0.035
12/12/14 19:01	1.839	0.2	0.035
12/12/14 19:02	1.754	0.2	0.035
12/12/14 19:03	1.711	0.2	0.035
12/12/14 19:04	1.797	0.2	0.035
12/12/14 19:05	1.754	0.2	0.035
12/12/14 19:06	1.754	0.2	0.035
12/12/14 19:07	1.797	0.2	0.035
12/12/14 19:08	1.839	0.2	0.035
12/12/14 19:09	1.797	0.2	0.035
12/12/14 19:10	1.711	0.2	0.035
12/12/14 19:11	1.754	0.2	0.035
12/12/14 19:12	1.754	0.2	0.035
12/12/14 19:13	1.839	0.2	0.035
12/12/14 19:14	1.754	0.2	0.035
12/12/14 19:15	1.797	0.2	0.035
12/12/14 19:16	1.711	0.2	0.035
12/12/14 19:17	1.839	0.2	0.035
12/12/14 19:18	1.839	0.2	0.035
12/12/14 19:19	1.797	0.2	0.035
12/12/14 19:20	1.797	0.2	0.035

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 19:21	1.711	0.2	0.035
12/12/14 19:22	1.711	0.2	0.035
12/12/14 19:23	1.797	0.2	0.035
12/12/14 19:24	1.754	0.2	0.035
12/12/14 19:25	1.754	0.2	0.035
12/12/14 19:26	1.754	0.2	0.035
12/12/14 19:27	1.754	0.2	0.035
12/12/14 19:28	1.797	0.2	0.035
12/12/14 19:29	1.754	0.2	0.035
12/12/14 19:30	1.839	0.2	0.035
12/12/14 19:31	1.797	0.2	0.035
12/12/14 19:32	1.711	0.2	0.035
12/12/14 19:33	1.711	0.2	0.035
12/12/14 19:34	1.797	0.2	0.035
12/12/14 19:35	1.797	0.2	0.035
12/12/14 19:36	1.797	0.2	0.035
12/12/14 19:37	1.754	0.2	0.035
12/12/14 19:38	1.754	0.2	0.035
12/12/14 19:39	1.797	0.2	0.035
12/12/14 19:40	1.754	0.2	0.035
12/12/14 19:41	1.797	0.2	0.035
12/12/14 19:42	1.754	0.2	0.035
12/12/14 19:43	1.797	0.2	0.035
12/12/14 19:44	1.754	0.2	0.035
12/12/14 19:45	1.797	0.2	0.035
12/12/14 19:46	1.711	0.2	0.035
12/12/14 19:47	1.711	0.2	0.035
12/12/14 19:48	1.797	0.2	0.035
12/12/14 19:49	1.797	0.2	0.035
12/12/14 19:50	1.754	0.2	0.035
12/12/14 19:51	1.797	0.2	0.035
12/12/14 19:52	1.797	0.2	0.035
12/12/14 19:53	1.797	0.2	0.035
12/12/14 19:54	1.711	0.2	0.035
12/12/14 19:55	1.797	0.2	0.035
12/12/14 19:56	1.797	0.2	0.035
12/12/14 19:57	1.711	0.2	0.035
12/12/14 19:58	1.797	0.2	0.035
12/12/14 19:59	1.711	0.2	0.035
12/12/14 20:00	1.797	0.2	0.035
12/12/14 20:01	1.797	0.2	0.035
12/12/14 20:02	1.797	0.2	0.035
12/12/14 20:03	1.797	0.2	0.035
12/12/14 20:04	1.797	0.2	0.035
12/12/14 20:05	1.669	0.2	0.035

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 20:06	1.711	0.2	0.035
12/12/14 20:07	1.797	0.2	0.035
12/12/14 20:08	1.797	0.2	0.035
12/12/14 20:09	1.797	0.2	0.035
12/12/14 20:10	1.754	0.2	0.035
12/12/14 20:11	1.797	0.2	0.035
12/12/14 20:12	1.669	0.2	0.035
12/12/14 20:13	1.754	0.2	0.035
12/12/14 20:14	1.711	0.2	0.035
12/12/14 20:15	1.797	0.2	0.035
12/12/14 20:16	1.839	0.25	0.04
12/12/14 20:17	1.882	0.28	0.045
12/12/14 20:18	2.138	0.38	0.075
12/12/14 20:19	2.223	0.62	0.13
12/12/14 20:20	2.734	0.8	0.227
12/12/14 20:21	3.288	0.85	0.318
12/12/14 20:22	3.501	0.85	0.349
12/12/14 20:23	3.8	0.93	0.433
12/12/14 20:24	4.055	0.88	0.451
12/12/14 20:25	4.226	0.85	0.463
12/12/14 20:26	4.311	1.08	0.6
12/12/14 20:27	4.311	0.87	0.485
12/12/14 20:28	4.269	0.95	0.526
12/12/14 20:29	4.226	0.94	0.508
12/12/14 20:30	4.183	0.88	0.473
12/12/14 20:31	4.141	0.94	0.497
12/12/14 20:32	4.013	0.87	0.439
12/12/14 20:33	3.97	0.82	0.408
12/12/14 20:34	3.928	0.88	0.429
12/12/14 20:35	3.928	0.82	0.398
12/12/14 20:36	3.757	0.77	0.349
12/12/14 20:37	3.714	0.82	0.369
12/12/14 20:38	3.714	0.85	0.38
12/12/14 20:39	3.544	0.74	0.308
12/12/14 20:40	3.587	0.69	0.292
12/12/14 20:41	3.501	0.77	0.315
12/12/14 20:42	3.544	0.74	0.311
12/12/14 20:43	3.459	0.78	0.314
12/12/14 20:44	3.459	0.77	0.312
12/12/14 20:45	3.331	0.72	0.274
12/12/14 20:46	3.331	0.72	0.274
12/12/14 20:47	3.331	0.7	0.267
12/12/14 20:48	3.331	0.65	0.248
12/12/14 20:49	3.246	0.66	0.242
12/12/14 20:50	3.246	0.64	0.235

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 20:51	3.16	0.64	0.228
12/12/14 20:52	3.075	0.65	0.219
12/12/14 20:53	3.118	0.62	0.214
12/12/14 20:54	3.075	0.56	0.189
12/12/14 20:55	2.99	0.61	0.198
12/12/14 20:56	3.033	0.54	0.18
12/12/14 20:57	2.862	0.61	0.185
12/12/14 20:58	2.99	0.58	0.188
12/12/14 20:59	2.905	0.6	0.187
12/12/14 21:00	2.819	0.53	0.158
12/12/14 21:01	2.862	0.56	0.172
12/12/14 21:02	2.734	0.56	0.161
12/12/14 21:03	2.819	0.52	0.156
12/12/14 21:04	2.819	0.51	0.154
12/12/14 21:05	2.777	0.51	0.149
12/12/14 21:06	2.734	0.53	0.15
12/12/14 21:07	2.777	0.55	0.16
12/12/14 21:08	2.777	0.57	0.166
12/12/14 21:09	2.99	0.65	0.212
12/12/14 21:10	3.033	0.65	0.216
12/12/14 21:11	3.16	0.68	0.239
12/12/14 21:12	3.288	0.73	0.275
12/12/14 21:13	3.373	0.81	0.317
12/12/14 21:14	3.501	0.87	0.355
12/12/14 21:15	3.629	0.91	0.396
12/12/14 21:16	3.672	0.95	0.421
12/12/14 21:17	3.885	0.95	0.453
12/12/14 21:18	3.928	0.94	0.456
12/12/14 21:19	4.013	1.01	0.51
12/12/14 21:20	4.013	0.92	0.46
12/12/14 21:21	4.098	0.94	0.49
12/12/14 21:22	4.141	0.89	0.469
12/12/14 21:23	4.141	0.97	0.511
12/12/14 21:24	4.141	0.94	0.497
12/12/14 21:25	4.098	0.99	0.511
12/12/14 21:26	4.098	0.91	0.47
12/12/14 21:27	4.098	1.03	0.534
12/12/14 21:28	3.97	1	0.494
12/12/14 21:29	3.97	0.92	0.457
12/12/14 21:30	3.97	0.88	0.436
12/12/14 21:31	3.97	0.96	0.473
12/12/14 21:32	3.97	0.97	0.481
12/12/14 21:33	3.842	0.93	0.44
12/12/14 21:34	3.885	0.93	0.447
12/12/14 21:35	3.8	0.93	0.431

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 21:36	3.8	0.91	0.422
12/12/14 21:37	3.714	0.9	0.405
12/12/14 21:38	3.714	0.82	0.369
12/12/14 21:39	3.629	0.8	0.345
12/12/14 21:40	3.629	0.84	0.364
12/12/14 21:41	3.629	0.75	0.323
12/12/14 21:42	3.629	0.71	0.308
12/12/14 21:43	3.501	0.76	0.311
12/12/14 21:44	3.459	0.75	0.303
12/12/14 21:45	3.501	0.73	0.302
12/12/14 21:46	3.459	0.66	0.268
12/12/14 21:47	3.416	0.8	0.316
12/12/14 21:48	3.373	0.59	0.229
12/12/14 21:49	3.331	0.73	0.277
12/12/14 21:50	3.331	0.71	0.27
12/12/14 21:51	3.331	0.71	0.271
12/12/14 21:52	3.246	0.68	0.249
12/12/14 21:53	3.246	0.82	0.301
12/12/14 21:54	3.203	0.69	0.25
12/12/14 21:55	3.203	0.68	0.245
12/12/14 21:56	3.203	0.65	0.236
12/12/14 21:57	3.203	0.62	0.222
12/12/14 21:58	3.075	0.61	0.207
12/12/14 21:59	3.075	0.58	0.197
12/12/14 22:00	3.075	0.63	0.215
12/12/14 22:01	2.99	0.63	0.207
12/12/14 22:02	3.075	0.6	0.204
12/12/14 22:03	2.99	0.6	0.195
12/12/14 22:04	2.905	0.62	0.194
12/12/14 22:05	2.905	0.57	0.177
12/12/14 22:06	2.99	0.61	0.199
12/12/14 22:07	2.947	0.58	0.185
12/12/14 22:08	2.819	0.62	0.184
12/12/14 22:09	2.905	0.56	0.173
12/12/14 22:10	2.905	0.57	0.179
12/12/14 22:11	2.862	0.53	0.162
12/12/14 22:12	2.862	0.54	0.164
12/12/14 22:13	2.862	0.5	0.153
12/12/14 22:14	2.777	0.56	0.163
12/12/14 22:15	2.777	0.57	0.166
12/12/14 22:16	2.777	0.58	0.17
12/12/14 22:17	2.777	0.53	0.155
12/12/14 22:18	2.734	0.54	0.154
12/12/14 22:19	2.734	0.52	0.149
12/12/14 22:20	2.692	0.52	0.145

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 22:21	2.606	0.47	0.125
12/12/14 22:22	2.606	0.5	0.131
12/12/14 22:23	2.649	0.49	0.133
12/12/14 22:24	2.692	0.45	0.124
12/12/14 22:25	2.606	0.51	0.135
12/12/14 22:26	2.692	0.46	0.129
12/12/14 22:27	2.649	0.48	0.131
12/12/14 22:28	2.692	0.49	0.137
12/12/14 22:29	2.649	0.48	0.13
12/12/14 22:30	2.649	0.42	0.114
12/12/14 22:31	2.521	0.45	0.113
12/12/14 22:32	2.606	0.47	0.126
12/12/14 22:33	2.564	0.43	0.111
12/12/14 22:34	2.564	0.37	0.096
12/12/14 22:35	2.564	0.43	0.112
12/12/14 22:36	2.521	0.41	0.103
12/12/14 22:37	2.478	0.41	0.102
12/12/14 22:38	2.393	0.38	0.09
12/12/14 22:39	2.478	0.39	0.096
12/12/14 22:40	2.521	0.42	0.107
12/12/14 22:41	2.478	0.4	0.098
12/12/14 22:42	2.478	0.35	0.087
12/12/14 22:43	2.478	0.36	0.088
12/12/14 22:44	2.478	0.38	0.093
12/12/14 22:45	2.436	0.35	0.085
12/12/14 22:46	2.308	0.4	0.089
12/12/14 22:47	2.351	0.34	0.077
12/12/14 22:48	2.393	0.38	0.089
12/12/14 22:49	2.393	0.38	0.089
12/12/14 22:50	2.351	0.35	0.08
12/12/14 22:51	2.351	0.35	0.08
12/12/14 22:52	2.393	0.36	0.084
12/12/14 22:53	2.393	0.36	0.084
12/12/14 22:54	2.393	0.33	0.077
12/12/14 22:55	2.351	0.32	0.073
12/12/14 22:56	2.393	0.31	0.073
12/12/14 22:57	2.351	0.34	0.078
12/12/14 22:58	2.393	0.33	0.076
12/12/14 22:59	2.351	0.36	0.082
12/12/14 23:00	2.351	0.32	0.072
12/12/14 23:01	2.265	0.29	0.063
12/12/14 23:02	2.351	0.26	0.06
12/12/14 23:03	2.351	0.28	0.064
12/12/14 23:04	2.308	0.32	0.07
12/12/14 23:05	2.265	0.28	0.059

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 23:06	2.308	0.27	0.06
12/12/14 23:07	2.265	0.28	0.061
12/12/14 23:08	2.223	0.28	0.058
12/12/14 23:09	2.308	0.26	0.059
12/12/14 23:10	2.18	0.27	0.056
12/12/14 23:11	2.223	0.29	0.062
12/12/14 23:12	2.265	0.28	0.06
12/12/14 23:13	2.265	0.29	0.063
12/12/14 23:14	2.265	0.32	0.068
12/12/14 23:15	2.265	0.26	0.056
12/12/14 23:16	2.265	0.29	0.062
12/12/14 23:17	2.18	0.27	0.056
12/12/14 23:18	2.265	0.23	0.049
12/12/14 23:19	2.265	0.28	0.06
12/12/14 23:20	2.265	0.28	0.061
12/12/14 23:21	2.223	0.27	0.057
12/12/14 23:22	2.223	0.27	0.056
12/12/14 23:23	2.095	0.28	0.053
12/12/14 23:24	2.18	0.26	0.053
12/12/14 23:25	2.138	0.26	0.052
12/12/14 23:26	2.138	0.24	0.047
12/12/14 23:27	2.095	0.2	0.039
12/12/14 23:28	2.138	0.27	0.053
12/12/14 23:29	2.095	0.25	0.048
12/12/14 23:30	2.18	0.28	0.058
12/12/14 23:31	2.138	0.27	0.054
12/12/14 23:32	2.18	0.26	0.053
12/12/14 23:33	2.138	0.27	0.053
12/12/14 23:34	2.095	0.26	0.05
12/12/14 23:35	2.138	0.27	0.054
12/12/14 23:36	2.052	0.26	0.048
12/12/14 23:37	2.138	0.26	0.048
12/12/14 23:38	2.138	0.25	0.05
12/12/14 23:39	2.052	0.28	0.052
12/12/14 23:40	2.052	0.24	0.045
12/12/14 23:41	2.095	0.25	0.048
12/12/14 23:42	2.052	0.25	0.046
12/12/14 23:43	2.095	0.25	0.046
12/12/14 23:44	2.01	0.25	0.046
12/12/14 23:45	2.138	0.25	0.046
12/12/14 23:46	2.095	0.23	0.045
12/12/14 23:47	2.095	0.25	0.048
12/12/14 23:48	2.095	0.25	0.048
12/12/14 23:49	2.095	0.23	0.045
12/12/14 23:50	2.095	0.21	0.04

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/12/14 23:51	2.095	0.25	0.047
12/12/14 23:52	2.095	0.24	0.045
12/12/14 23:53	2.095	0.21	0.04
12/12/14 23:54	2.095	0.21	0.04
12/12/14 23:55	2.095	0.2	0.039
12/12/14 23:56	2.095	0.2	0.039
12/12/14 23:57	2.095	0.2	0.039
12/12/14 23:58	2.052	0.2	0.039
12/12/14 23:59	2.052	0.24	0.045
12/13/14 0:00	1.967	0.25	0.043
12/13/14 0:01	2.052	0.2	0.038
12/13/14 0:02	2.095	0.2	0.039
12/13/14 0:03	2.052	0.2	0.039
12/13/14 0:04	2.052	0.2	0.039
12/13/14 0:05	1.924	0.24	0.041
12/13/14 0:06	2.095	0.22	0.042
12/13/14 0:07	2.01	0.22	0.042
12/13/14 0:08	2.052	0.23	0.044
12/13/14 0:09	2.052	0.2	0.038
12/13/14 0:10	1.967	0.21	0.037
12/13/14 0:11	2.052	0.21	0.037
12/13/14 0:12	1.967	0.21	0.037
12/13/14 0:13	2.052	0.2	0.037
12/13/14 0:14	2.052	0.2	0.037
12/13/14 0:15	2.052	0.21	0.039
12/13/14 0:16	2.01	0.21	0.039
12/13/14 0:17	2.052	0.2	0.038
12/13/14 0:18	2.01	0.2	0.038
12/13/14 0:19	1.967	0.2	0.038
12/13/14 0:20	1.924	0.2	0.038
12/13/14 0:21	2.01	0.2	0.038
12/13/14 0:22	1.967	0.2	0.035
12/13/14 0:23	2.052	0.2	0.035
12/13/14 0:24	2.01	0.2	0.035
12/13/14 0:25	2.01	0.2	0.035
12/13/14 0:26	1.924	0.2	0.035
12/13/14 0:27	2.01	0.2	0.035
12/13/14 0:28	2.01	0.2	0.035
12/13/14 0:29	1.967	0.2	0.035
12/13/14 0:30	2.01	0.2	0.035
12/13/14 0:31	2.01	0.2	0.035
12/13/14 0:32	1.924	0.2	0.035
12/13/14 0:33	1.967	0.2	0.035
12/13/14 0:34	1.882	0.2	0.033
12/13/14 0:35	2.01	0.2	0.037

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 0:36	1.967	0.2	0.037
12/13/14 0:37	1.967	0.2	0.037
12/13/14 0:38	1.967	0.2	0.037
12/13/14 0:39	1.967	0.2	0.037
12/13/14 0:40	1.882	0.2	0.037
12/13/14 0:41	1.967	0.2	0.037
12/13/14 0:42	1.882	0.2	0.037
12/13/14 0:43	2.01	0.2	0.037
12/13/14 0:44	1.882	0.2	0.037
12/13/14 0:45	1.967	0.2	0.037
12/13/14 0:46	1.882	0.2	0.037
12/13/14 0:47	1.967	0.2	0.037
12/13/14 0:48	1.967	0.2	0.037
12/13/14 0:49	1.882	0.2	0.037
12/13/14 0:50	1.967	0.2	0.037
12/13/14 0:51	1.967	0.2	0.037
12/13/14 0:52	1.967	0.2	0.037
12/13/14 0:53	1.967	0.2	0.037
12/13/14 0:54	1.967	0.2	0.037
12/13/14 0:55	1.967	0.2	0.037
12/13/14 0:56	1.967	0.2	0.037
12/13/14 0:57	1.882	0.2	0.037
12/13/14 0:58	1.924	0.2	0.037
12/13/14 0:59	1.924	0.2	0.037
12/13/14 1:00	1.924	0.2	0.037
12/13/14 1:01	1.924	0.2	0.037
12/13/14 1:02	1.882	0.2	0.037
12/13/14 1:03	1.882	0.2	0.037
12/13/14 1:04	1.967	0.2	0.037
12/13/14 1:05	1.924	0.2	0.037
12/13/14 1:06	1.967	0.2	0.037
12/13/14 1:07	1.924	0.2	0.037
12/13/14 1:08	1.839	0.2	0.037
12/13/14 1:09	1.924	0.2	0.037
12/13/14 1:10	1.924	0.2	0.037
12/13/14 1:11	1.839	0.2	0.037
12/13/14 1:12	1.882	0.2	0.037
12/13/14 1:13	1.924	0.2	0.037
12/13/14 1:14	1.839	0.2	0.037
12/13/14 1:15	1.967	0.2	0.037
12/13/14 1:16	1.924	0.2	0.037
12/13/14 1:17	1.924	0.2	0.037
12/13/14 1:18	1.839	0.2	0.037
12/13/14 1:19	1.882	0.2	0.037
12/13/14 1:20	1.924	0.2	0.037

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 1:21	1.924	0.2	0.037
12/13/14 1:22	1.882	0.2	0.037
12/13/14 1:23	1.839	0.2	0.037
12/13/14 1:24	1.882	0.2	0.037
12/13/14 1:25	1.839	0.2	0.037
12/13/14 1:26	1.797	0.2	0.037
12/13/14 1:27	1.924	0.2	0.037
12/13/14 1:28	1.924	0.2	0.037
12/13/14 1:29	1.924	0.2	0.037
12/13/14 1:30	1.797	0.2	0.037
12/13/14 1:31	1.924	0.2	0.037
12/13/14 1:32	1.797	0.2	0.037
12/13/14 1:33	1.924	0.2	0.037
12/13/14 1:34	1.882	0.2	0.037
12/13/14 1:35	1.882	0.2	0.037
12/13/14 1:36	1.924	0.2	0.037
12/13/14 1:37	1.924	0.2	0.037
12/13/14 1:38	1.924	0.2	0.037
12/13/14 1:39	1.882	0.2	0.037
12/13/14 1:40	1.924	0.2	0.037
12/13/14 1:41	1.797	0.2	0.037
12/13/14 1:42	1.882	0.2	0.037
12/13/14 1:43	1.882	0.2	0.037
12/13/14 1:44	1.797	0.2	0.037
12/13/14 1:45	1.882	0.2	0.037
12/13/14 1:46	1.882	0.2	0.037
12/13/14 1:47	1.882	0.2	0.037
12/13/14 1:48	1.797	0.2	0.037
12/13/14 1:49	1.882	0.2	0.037
12/13/14 1:50	1.797	0.2	0.037
12/13/14 1:51	1.882	0.2	0.037
12/13/14 1:52	1.839	0.2	0.037
12/13/14 1:53	1.797	0.2	0.037
12/13/14 1:54	1.839	0.2	0.037
12/13/14 1:55	1.839	0.2	0.037
12/13/14 1:56	1.882	0.2	0.037
12/13/14 1:57	1.839	0.2	0.037
12/13/14 1:58	1.882	0.2	0.037
12/13/14 1:59	1.797	0.2	0.037
12/13/14 2:00	1.882	0.2	0.037
12/13/14 2:01	1.882	0.2	0.037
12/13/14 2:02	1.882	0.2	0.037
12/13/14 2:03	1.839	0.2	0.037
12/13/14 2:04	1.882	0.2	0.037
12/13/14 2:05	1.839	0.2	0.037

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 2:06	1.839	0.2	0.037
12/13/14 2:07	1.839	0.2	0.037
12/13/14 2:08	1.882	0.2	0.037
12/13/14 2:09	1.839	0.2	0.037
12/13/14 2:10	1.839	0.2	0.037
12/13/14 2:11	1.839	0.2	0.037
12/13/14 2:12	1.797	0.2	0.037
12/13/14 2:13	1.882	0.2	0.037
12/13/14 2:14	1.839	0.2	0.037
12/13/14 2:15	1.797	0.2	0.037
12/13/14 2:16	1.839	0.2	0.037
12/13/14 2:17	1.839	0.2	0.037
12/13/14 2:18	1.839	0.2	0.037
12/13/14 2:19	1.839	0.2	0.037
12/13/14 2:20	1.839	0.2	0.037
12/13/14 2:21	1.839	0.2	0.037
12/13/14 2:22	1.797	0.2	0.037
12/13/14 2:23	1.754	0.2	0.037
12/13/14 2:24	1.839	0.2	0.037
12/13/14 2:25	1.754	0.2	0.037
12/13/14 2:26	1.754	0.2	0.037
12/13/14 2:27	1.839	0.2	0.037
12/13/14 2:28	1.839	0.2	0.037
12/13/14 2:29	1.711	0.2	0.037
12/13/14 2:30	1.754	0.2	0.037
12/13/14 2:31	1.797	0.2	0.037
12/13/14 2:32	1.839	0.2	0.037
12/13/14 2:33	1.839	0.2	0.037
12/13/14 2:34	1.754	0.2	0.037
12/13/14 2:35	1.754	0.2	0.037
12/13/14 2:36	1.839	0.2	0.037
12/13/14 2:37	1.754	0.2	0.037
12/13/14 2:38	1.839	0.2	0.037
12/13/14 2:39	1.754	0.2	0.037
12/13/14 2:40	1.754	0.2	0.037
12/13/14 2:41	1.839	0.2	0.037
12/13/14 2:42	1.797	0.2	0.037
12/13/14 2:43	1.711	0.2	0.037
12/13/14 2:44	1.754	0.2	0.037
12/13/14 2:45	1.839	0.2	0.037
12/13/14 2:46	1.797	0.2	0.037
12/13/14 2:47	1.711	0.2	0.037
12/13/14 2:48	1.839	0.2	0.037
12/13/14 2:49	1.839	0.2	0.037
12/13/14 2:50	1.754	0.2	0.037

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 2:51	1.839	0.2	0.037
12/13/14 2:52	1.839	0.2	0.037
12/13/14 2:53	1.754	0.2	0.037
12/13/14 2:54	1.797	0.2	0.037
12/13/14 2:55	1.839	0.2	0.037
12/13/14 2:56	1.754	0.2	0.037
12/13/14 2:57	1.797	0.2	0.037
12/13/14 2:58	1.839	0.2	0.037
12/13/14 2:59	1.711	0.2	0.037
12/13/14 3:00	1.839	0.2	0.037
12/13/14 3:01	1.754	0.2	0.037
12/13/14 3:02	1.839	0.2	0.037
12/13/14 3:03	1.711	0.2	0.037
12/13/14 3:04	1.754	0.2	0.037
12/13/14 3:05	1.839	0.2	0.037
12/13/14 3:06	1.797	0.2	0.037
12/13/14 3:07	1.797	0.2	0.037
12/13/14 3:08	1.711	0.2	0.037
12/13/14 3:09	1.711	0.2	0.037
12/13/14 3:10	1.797	0.2	0.037
12/13/14 3:11	1.797	0.2	0.037
12/13/14 3:12	1.754	0.2	0.037
12/13/14 3:13	1.797	0.2	0.037
12/13/14 3:14	1.797	0.2	0.037
12/13/14 3:15	1.754	0.2	0.037
12/13/14 3:16	1.797	0.2	0.037
12/13/14 3:17	1.797	0.2	0.037
12/13/14 3:18	1.797	0.2	0.037
12/13/14 3:19	1.839	0.2	0.037
12/13/14 3:20	1.797	0.2	0.037
12/13/14 3:21	1.711	0.2	0.037
12/13/14 3:22	1.711	0.2	0.037
12/13/14 3:23	1.797	0.2	0.037
12/13/14 3:24	1.754	0.2	0.037
12/13/14 3:25	1.797	0.2	0.037
12/13/14 3:26	1.797	0.2	0.037
12/13/14 3:27	1.882	0.27	0.045
12/13/14 3:28	2.095	0.33	0.063
12/13/14 3:29	2.18	0.49	0.1
12/13/14 3:30	2.521	0.65	0.164
12/13/14 3:31	2.99	0.7	0.227
12/13/14 3:32	3.288	0.87	0.327
12/13/14 3:33	3.544	0.89	0.373
12/13/14 3:34	3.8	1	0.464
12/13/14 3:35	4.183	1	0.537

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 3:36	4.354	1.09	0.62
12/13/14 3:37	4.609	1.13	0.694
12/13/14 3:38	4.908	1.25	0.842
12/13/14 3:39	4.993	1.39	0.965
12/13/14 3:40	5.078	1.32	0.939
12/13/14 3:41	5.121	1.26	0.906
12/13/14 3:42	5.164	1.37	0.997
12/13/14 3:43	5.249	1.35	1.003
12/13/14 3:44	5.206	1.36	0.998
12/13/14 3:45	5.291	1.42	1.072
12/13/14 3:46	5.164	1.35	0.985
12/13/14 3:47	5.206	1.34	0.985
12/13/14 3:48	5.164	1.36	0.987
12/13/14 3:49	5.164	1.29	0.94
12/13/14 3:50	4.95	1.2	0.823
12/13/14 3:51	5.036	1.32	0.929
12/13/14 3:52	4.95	1.28	0.875
12/13/14 3:53	4.95	1.26	0.865
12/13/14 3:54	4.823	1.2	0.793
12/13/14 3:55	4.78	1.21	0.786
12/13/14 3:56	4.78	1.25	0.816
12/13/14 3:57	4.695	1.13	0.712
12/13/14 3:58	4.695	1.14	0.724
12/13/14 3:59	4.609	1.24	0.764
12/13/14 4:00	4.609	1.07	0.657
12/13/14 4:01	4.567	1.26	0.768
12/13/14 4:02	4.396	1.04	0.597
12/13/14 4:03	4.439	1.16	0.677
12/13/14 4:04	4.396	1.09	0.624
12/13/14 4:05	4.354	1	0.564
12/13/14 4:06	4.354	1.08	0.609
12/13/14 4:07	4.269	1.1	0.607
12/13/14 4:08	4.226	1.01	0.549
12/13/14 4:09	4.141	1.03	0.541
12/13/14 4:10	4.098	0.87	0.453
12/13/14 4:11	4.098	0.98	0.509
12/13/14 4:12	4.013	0.95	0.479
12/13/14 4:13	4.055	0.93	0.474
12/13/14 4:14	3.97	0.87	0.428
12/13/14 4:15	3.928	0.86	0.42
12/13/14 4:16	3.885	0.84	0.404
12/13/14 4:17	3.8	0.85	0.395
12/13/14 4:18	3.8	0.88	0.41
12/13/14 4:19	3.714	0.81	0.365
12/13/14 4:20	3.714	0.91	0.408

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 4:21	3.714	0.87	0.391
12/13/14 4:22	3.629	0.79	0.34
12/13/14 4:23	3.544	0.7	0.295
12/13/14 4:24	3.587	0.75	0.319
12/13/14 4:25	3.459	0.8	0.322
12/13/14 4:26	3.501	0.73	0.3
12/13/14 4:27	3.416	0.74	0.294
12/13/14 4:28	3.459	0.77	0.31
12/13/14 4:29	3.416	0.75	0.297
12/13/14 4:30	3.416	0.75	0.298
12/13/14 4:31	3.373	0.72	0.281
12/13/14 4:32	3.416	0.69	0.272
12/13/14 4:33	3.288	0.73	0.272
12/13/14 4:34	3.288	0.7	0.262
12/13/14 4:35	3.288	0.7	0.264
12/13/14 4:36	3.118	0.69	0.237
12/13/14 4:37	3.203	0.62	0.223
12/13/14 4:38	3.203	0.65	0.235
12/13/14 4:39	3.16	0.62	0.218
12/13/14 4:40	3.033	0.65	0.217
12/13/14 4:41	3.16	0.63	0.222
12/13/14 4:42	3.118	0.63	0.219
12/13/14 4:43	3.075	0.58	0.197
12/13/14 4:44	3.075	0.61	0.207
12/13/14 4:45	2.99	0.56	0.183
12/13/14 4:46	2.947	0.58	0.184
12/13/14 4:47	2.947	0.59	0.189
12/13/14 4:48	2.99	0.65	0.21
12/13/14 4:49	2.947	0.57	0.182
12/13/14 4:50	2.99	0.57	0.186
12/13/14 4:51	2.862	0.52	0.16
12/13/14 4:52	2.862	0.61	0.185
12/13/14 4:53	2.862	0.52	0.158
12/13/14 4:54	2.777	0.54	0.157
12/13/14 4:55	2.862	0.62	0.188
12/13/14 4:56	2.819	0.55	0.163
12/13/14 4:57	2.777	0.51	0.15
12/13/14 4:58	2.862	0.55	0.167
12/13/14 4:59	2.692	0.53	0.147
12/13/14 5:00	2.734	0.56	0.159
12/13/14 5:01	2.777	0.5	0.146
12/13/14 5:02	2.777	0.57	0.166
12/13/14 5:03	2.734	0.45	0.129
12/13/14 5:04	2.777	0.56	0.163
12/13/14 5:05	2.692	0.52	0.145

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 5:06	2.734	0.53	0.151
12/13/14 5:07	2.734	0.49	0.138
12/13/14 5:08	2.734	0.55	0.156
12/13/14 5:09	2.606	0.45	0.121
12/13/14 5:10	2.692	0.47	0.13
12/13/14 5:11	2.564	0.51	0.133
12/13/14 5:12	2.564	0.44	0.114
12/13/14 5:13	2.649	0.48	0.13
12/13/14 5:14	2.606	0.46	0.121
12/13/14 5:15	2.649	0.51	0.139
12/13/14 5:16	2.649	0.48	0.13
12/13/14 5:17	2.521	0.44	0.111
12/13/14 5:18	2.606	0.5	0.131
12/13/14 5:19	2.564	0.42	0.109
12/13/14 5:20	2.521	0.41	0.103
12/13/14 5:21	2.606	0.43	0.114
12/13/14 5:22	2.606	0.45	0.119
12/13/14 5:23	2.521	0.46	0.116
12/13/14 5:24	2.564	0.41	0.106
12/13/14 5:25	2.521	0.44	0.112
12/13/14 5:26	2.521	0.4	0.101
12/13/14 5:27	2.436	0.47	0.114
12/13/14 5:28	2.436	0.44	0.106
12/13/14 5:29	2.521	0.43	0.109
12/13/14 5:30	2.521	0.39	0.098
12/13/14 5:31	2.478	0.43	0.106
12/13/14 5:32	2.393	0.4	0.092
12/13/14 5:33	2.478	0.43	0.107
12/13/14 5:34	2.478	0.36	0.089
12/13/14 5:35	2.393	0.39	0.091
12/13/14 5:36	2.478	0.42	0.104
12/13/14 5:37	2.436	0.39	0.094
12/13/14 5:38	2.351	0.4	0.092
12/13/14 5:39	2.393	0.38	0.088
12/13/14 5:40	2.393	0.39	0.091
12/13/14 5:41	2.351	0.41	0.093
12/13/14 5:42	2.393	0.4	0.093
12/13/14 5:43	2.436	0.35	0.085
12/13/14 5:44	2.393	0.34	0.079
12/13/14 5:45	2.393	0.35	0.083
12/13/14 5:46	2.393	0.42	0.098
12/13/14 5:47	2.351	0.35	0.08
12/13/14 5:48	2.351	0.37	0.085
12/13/14 5:49	2.393	0.37	0.086
12/13/14 5:50	2.393	0.34	0.079

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 5:51	2.351	0.35	0.081
12/13/14 5:52	2.308	0.36	0.079
12/13/14 5:53	2.351	0.32	0.074
12/13/14 5:54	2.351	0.34	0.077
12/13/14 5:55	2.351	0.34	0.077
12/13/14 5:56	2.351	0.34	0.077
12/13/14 5:57	2.308	0.34	0.076
12/13/14 5:58	2.308	0.38	0.085
12/13/14 5:59	2.308	0.33	0.074
12/13/14 6:00	2.223	0.33	0.07
12/13/14 6:01	2.308	0.36	0.08
12/13/14 6:02	2.18	0.32	0.066
12/13/14 6:03	2.223	0.29	0.062
12/13/14 6:04	2.223	0.34	0.071
12/13/14 6:05	2.223	0.32	0.067
12/13/14 6:06	2.308	0.33	0.072
12/13/14 6:07	2.265	0.31	0.066
12/13/14 6:08	2.265	0.31	0.067
12/13/14 6:09	2.265	0.33	0.072
12/13/14 6:10	2.265	0.3	0.064
12/13/14 6:11	2.265	0.33	0.072
12/13/14 6:12	2.223	0.32	0.068
12/13/14 6:13	2.18	0.32	0.066
12/13/14 6:14	2.223	0.31	0.065
12/13/14 6:15	2.265	0.33	0.071
12/13/14 6:16	2.223	0.33	0.069
12/13/14 6:17	2.265	0.33	0.071
12/13/14 6:18	2.223	0.32	0.067
12/13/14 6:19	2.223	0.31	0.066
12/13/14 6:20	2.138	0.29	0.058
12/13/14 6:21	2.223	0.3	0.064
12/13/14 6:22	2.223	0.28	0.058
12/13/14 6:23	2.18	0.27	0.055
12/13/14 6:24	2.223	0.25	0.051
12/13/14 6:25	2.223	0.29	0.06
12/13/14 6:26	2.223	0.26	0.055
12/13/14 6:27	2.138	0.3	0.06
12/13/14 6:28	2.223	0.31	0.064
12/13/14 6:29	2.223	0.29	0.061
12/13/14 6:30	2.138	0.28	0.055
12/13/14 6:31	2.18	0.29	0.059
12/13/14 6:32	2.095	0.27	0.053
12/13/14 6:33	2.138	0.29	0.058
12/13/14 6:34	2.18	0.27	0.055
12/13/14 6:35	2.052	0.3	0.056

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 6:36	2.095	0.31	0.059
12/13/14 6:37	2.138	0.29	0.057
12/13/14 6:38	2.095	0.28	0.055
12/13/14 6:39	2.138	0.29	0.057
12/13/14 6:40	2.095	0.27	0.052
12/13/14 6:41	2.18	0.3	0.06
12/13/14 6:42	2.095	0.26	0.05
12/13/14 6:43	2.138	0.29	0.058
12/13/14 6:44	2.138	0.27	0.053
12/13/14 6:45	2.138	0.24	0.047
12/13/14 6:46	2.138	0.21	0.041
12/13/14 6:47	2.052	0.26	0.048
12/13/14 6:48	2.095	0.25	0.048
12/13/14 6:49	2.01	0.26	0.047
12/13/14 6:50	2.138	0.26	0.051
12/13/14 6:51	2.095	0.23	0.044
12/13/14 6:52	2.138	0.26	0.051
12/13/14 6:53	2.01	0.26	0.047
12/13/14 6:54	2.138	0.28	0.055
12/13/14 6:55	2.01	0.27	0.049
12/13/14 6:56	2.01	0.26	0.047
12/13/14 6:57	2.01	0.28	0.051
12/13/14 6:58	2.095	0.25	0.047
12/13/14 6:59	2.095	0.22	0.043
12/13/14 7:00	2.052	0.27	0.05
12/13/14 7:01	2.01	0.26	0.047
12/13/14 7:02	2.095	0.25	0.047
12/13/14 7:03	2.095	0.3	0.057
12/13/14 7:04	2.01	0.27	0.048
12/13/14 7:05	2.095	0.26	0.049
12/13/14 7:06	1.967	0.22	0.039
12/13/14 7:07	2.095	0.24	0.046
12/13/14 7:08	2.01	0.26	0.046
12/13/14 7:09	2.01	0.24	0.043
12/13/14 7:10	2.01	0.26	0.047
12/13/14 7:11	2.095	0.24	0.046
12/13/14 7:12	2.052	0.26	0.048
12/13/14 7:13	2.052	0.24	0.044
12/13/14 7:14	2.01	0.25	0.046
12/13/14 7:15	2.095	0.28	0.055
12/13/14 7:16	2.052	0.26	0.048
12/13/14 7:17	1.967	0.25	0.044
12/13/14 7:18	2.01	0.24	0.043
12/13/14 7:19	2.052	0.28	0.051
12/13/14 7:20	2.052	0.21	0.04

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
12/13/14 7:21	1.967	0.23	0.041
12/13/14 7:22	2.01	0.25	0.045
12/13/14 7:23	2.01	0.25	0.045
12/13/14 7:24	2.01	0.23	0.041
12/13/14 7:25	2.01	0.22	0.04
12/13/14 7:26	2.052	0.2	0.037
12/13/14 7:27	2.01	0.2	0.037
12/13/14 7:28	2.052	0.2	0.037
12/13/14 7:29	1.967	0.21	0.036
12/13/14 7:30	2.052	0.25	0.047
12/13/14 7:31	2.01	0.21	0.037
12/13/14 7:32	2.052	0.2	0.038
12/13/14 7:33	2.01	0.24	0.043
12/13/14 7:34	2.052	0.21	0.039
12/13/14 7:35	1.967	0.24	0.041
12/13/14 7:36	2.052	0.21	0.039
12/13/14 7:37	2.01	0.21	0.037
12/13/14 7:38	1.967	0.24	0.042
12/13/14 7:39	2.01	0.24	0.044
12/13/14 7:40	2.01	0.21	0.037
12/13/14 7:41	2.01	0.21	0.037
12/13/14 7:42	2.01	0.24	0.043
12/13/14 7:43	2.01	0.22	0.039
12/13/14 7:44	1.924	0.25	0.041
12/13/14 7:45	2.01	0.2	0.037
12/13/14 7:46	2.01	0.22	0.04
12/13/14 7:47	1.967	0.25	0.044
12/13/14 7:48	2.01	0.21	0.038
12/13/14 7:49	1.967	0.2	0.036
12/13/14 7:50	2.01	0.21	0.038

Table F-11. Storm 2 PLU Flow

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 10:35	0.688	0.04	0.001
4/7/15 10:36	0.603	0.04	0.001
4/7/15 10:37	0.603	0.04	0.001
4/7/15 10:38	0.603	0.04	0.001
4/7/15 10:39	0.603	0.04	0.001
4/7/15 10:40	0.646	0.04	0.001
4/7/15 10:41	0.646	0.04	0.001
4/7/15 10:42	0.561	0.04	0.001
4/7/15 10:43	0.603	0.04	0.001
4/7/15 10:44	0.603	0.04	0.001
4/7/15 10:45	0.646	0.04	0.001
4/7/15 10:46	0.646	0.04	0.001
4/7/15 10:47	0.646	0.04	0.001
4/7/15 10:48	0.561	0.04	0.001
4/7/15 10:49	0.603	0.04	0.001
4/7/15 10:50	0.688	0.04	0.001
4/7/15 10:51	0.646	0.04	0.001
4/7/15 10:52	0.646	0.04	0.001
4/7/15 10:53	0.561	0.04	0.001
4/7/15 10:54	0.646	0.04	0.001
4/7/15 10:55	0.688	0.04	0.001
4/7/15 10:56	0.646	0.04	0.001
4/7/15 10:57	0.646	0.04	0.001
4/7/15 10:58	0.603	0.04	0.001
4/7/15 10:59	0.603	0.04	0.001
4/7/15 11:00	0.561	0.04	0.001
4/7/15 11:01	0.688	0.04	0.001
4/7/15 11:02	0.603	0.04	0.001
4/7/15 11:03	0.646	0.04	0.001
4/7/15 11:04	0.561	0.04	0.001067
4/7/15 11:05	0.646	0.04	0.001133
4/7/15 11:06	0.646	0.04	0.0012
4/7/15 11:07	0.603	0.04	0.001267
4/7/15 11:08	0.646	0.04	0.001333
4/7/15 11:09	0.603	0.04	0.0014
4/7/15 11:10	0.561	0.04	0.001467
4/7/15 11:11	0.646	0.04	0.001533
4/7/15 11:12	0.688	0.05	0.0016
4/7/15 11:13	0.603	0.05	0.001667
4/7/15 11:14	0.646	0.05	0.001733
4/7/15 11:15	0.646	0.05	0.0018
4/7/15 11:16	0.688	0.05	0.001867
4/7/15 11:17	0.561	0.05	0.001933

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 11:18	0.646	0.05	0.002
4/7/15 11:19	0.603	0.05	0.002
4/7/15 11:20	0.688	0.05	0.002
4/7/15 11:21	0.603	0.05	0.002
4/7/15 11:22	0.603	0.05	0.002
4/7/15 11:23	0.646	0.06	0.002
4/7/15 11:24	0.561	0.06	0.002
4/7/15 11:25	0.646	0.06	0.002
4/7/15 11:26	0.688	0.06	0.002
4/7/15 11:27	0.646	0.06	0.002
4/7/15 11:28	0.688	0.06	0.002
4/7/15 11:29	0.646	0.06	0.002
4/7/15 11:30	0.646	0.06	0.002
4/7/15 11:31	0.561	0.06	0.002
4/7/15 11:32	0.603	0.06	0.002
4/7/15 11:33	0.603	0.06	0.002
4/7/15 11:34	0.688	0.06	0.002
4/7/15 11:35	0.646	0.06	0.002
4/7/15 11:36	0.603	0.06	0.002
4/7/15 11:37	0.603	0.06	0.002
4/7/15 11:38	0.646	0.06	0.002
4/7/15 11:39	0.646	0.06	0.002
4/7/15 11:40	0.603	0.06	0.002
4/7/15 11:41	0.561	0.06	0.002
4/7/15 11:42	0.646	0.06	0.002
4/7/15 11:43	0.561	0.06	0.002
4/7/15 11:44	0.688	0.06	0.002
4/7/15 11:45	0.646	0.06	0.002
4/7/15 11:46	0.646	0.06	0.002
4/7/15 11:47	0.688	0.06	0.002
4/7/15 11:48	0.646	0.06	0.002
4/7/15 11:49	0.688	0.06	0.002
4/7/15 11:50	0.688	0.06	0.002
4/7/15 11:51	0.603	0.06	0.002
4/7/15 11:52	0.603	0.06	0.002
4/7/15 11:53	0.603	0.06	0.002
4/7/15 11:54	0.646	0.06	0.002
4/7/15 11:55	0.603	0.06	0.002
4/7/15 11:56	0.561	0.06	0.002
4/7/15 11:57	0.646	0.06	0.002
4/7/15 11:58	0.603	0.06	0.002
4/7/15 11:59	0.688	0.06	0.002
4/7/15 12:00	0.646	0.06	0.002
4/7/15 12:01	0.603	0.06	0.002
4/7/15 12:02	0.603	0.06	0.002

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 12:03	0.561	0.06	0.002
4/7/15 12:04	0.646	0.06	0.002
4/7/15 12:05	0.603	0.06	0.002
4/7/15 12:06	0.603	0.06	0.002
4/7/15 12:07	0.603	0.06	0.002
4/7/15 12:08	0.646	0.06	0.002
4/7/15 12:09	0.603	0.06	0.002
4/7/15 12:10	0.603	0.06	0.002
4/7/15 12:11	0.603	0.06	0.002
4/7/15 12:12	0.646	0.06	0.002
4/7/15 12:13	0.688	0.06	0.002
4/7/15 12:14	0.603	0.06	0.002
4/7/15 12:15	0.603	0.06	0.002
4/7/15 12:16	0.603	0.06	0.002
4/7/15 12:17	0.603	0.06	0.002
4/7/15 12:18	0.688	0.06	0.002
4/7/15 12:19	0.646	0.06	0.002
4/7/15 12:20	0.646	0.06	0.002
4/7/15 12:21	0.603	0.06	0.002
4/7/15 12:22	0.688	0.06	0.002
4/7/15 12:23	0.646	0.06	0.002
4/7/15 12:24	0.688	0.06	0.002
4/7/15 12:25	0.603	0.06	0.002
4/7/15 12:26	0.688	0.06	0.002
4/7/15 12:27	0.688	0.06	0.002
4/7/15 12:28	0.646	0.06	0.002
4/7/15 12:29	0.603	0.06	0.002
4/7/15 12:30	0.688	0.06	0.002
4/7/15 12:31	0.646	0.06	0.002
4/7/15 12:32	0.603	0.06	0.002
4/7/15 12:33	0.688	0.06	0.002
4/7/15 12:34	0.603	0.06	0.002
4/7/15 12:35	0.561	0.06	0.002
4/7/15 12:36	0.603	0.06	0.002
4/7/15 12:37	0.646	0.06	0.002
4/7/15 12:38	0.603	0.06	0.002
4/7/15 12:39	0.646	0.06	0.002
4/7/15 12:40	0.603	0.06	0.002
4/7/15 12:41	0.688	0.06	0.002
4/7/15 12:42	0.561	0.06	0.002
4/7/15 12:43	0.561	0.06	0.002
4/7/15 12:44	0.688	0.06	0.002
4/7/15 12:45	0.603	0.06	0.002
4/7/15 12:46	0.561	0.06	0.002
4/7/15 12:47	0.603	0.06	0.002

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 12:48	0.561	0.06	0.002
4/7/15 12:49	0.688	0.06	0.002
4/7/15 12:50	0.688	0.06	0.002
4/7/15 12:51	0.646	0.06	0.002
4/7/15 12:52	0.603	0.06	0.002
4/7/15 12:53	0.603	0.06	0.002
4/7/15 12:54	0.603	0.06	0.002
4/7/15 12:55	0.646	0.06	0.002
4/7/15 12:56	0.646	0.06	0.002
4/7/15 12:57	0.688	0.06	0.002
4/7/15 12:58	0.646	0.06	0.002
4/7/15 12:59	0.561	0.06	0.002
4/7/15 13:00	0.688	0.06	0.002
4/7/15 13:01	0.688	0.06	0.002
4/7/15 13:02	0.603	0.06	0.002
4/7/15 13:03	0.646	0.06	0.002
4/7/15 13:04	0.688	0.06	0.002
4/7/15 13:05	0.646	0.06	0.002
4/7/15 13:06	0.688	0.06	0.002
4/7/15 13:07	0.603	0.06	0.002
4/7/15 13:08	0.646	0.06	0.002
4/7/15 13:09	0.646	0.06	0.002
4/7/15 13:10	0.688	0.06	0.002
4/7/15 13:11	0.646	0.06	0.002
4/7/15 13:12	0.603	0.06	0.002
4/7/15 13:13	0.603	0.06	0.002
4/7/15 13:14	0.688	0.06	0.002
4/7/15 13:15	0.603	0.06	0.002
4/7/15 13:16	0.688	0.06	0.001933
4/7/15 13:17	0.646	0.06	0.001867
4/7/15 13:18	0.688	0.06	0.0018
4/7/15 13:19	0.688	0.06	0.001733
4/7/15 13:20	0.688	0.06	0.001667
4/7/15 13:21	0.646	0.06	0.0016
4/7/15 13:22	0.688	0.06	0.001533
4/7/15 13:23	0.688	0.06	0.001467
4/7/15 13:24	0.603	0.04	0.0014
4/7/15 13:25	0.646	0.04	0.001333
4/7/15 13:26	0.646	0.04	0.001267
4/7/15 13:27	0.688	0.04	0.0012
4/7/15 13:28	0.603	0.04	0.001133
4/7/15 13:29	0.646	0.04	0.001067
4/7/15 13:30	0.603	0.04	0.001
4/7/15 13:31	0.688	0.04	0.001
4/7/15 13:32	0.646	0.04	0.001

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 13:33	0.603	0.04	0.001
4/7/15 13:34	0.646	0.04	0.001
4/7/15 13:35	0.603	0.04	0.001
4/7/15 13:36	0.603	0.04	0.001
4/7/15 13:37	0.603	0.04	0.001
4/7/15 13:38	0.603	0.04	0.001
4/7/15 13:39	0.646	0.04	0.001
4/7/15 13:40	0.688	0.04	0.001
4/7/15 13:41	0.688	0.04	0.001
4/7/15 13:42	0.603	0.04	0.001
4/7/15 13:43	0.688	0.04	0.001
4/7/15 13:44	0.646	0.04	0.001
4/7/15 13:45	0.646	0.04	0.001
4/7/15 13:46	0.603	0.04	0.001
4/7/15 13:47	0.646	0.04	0.001067
4/7/15 13:48	0.688	0.04	0.001133
4/7/15 13:49	0.603	0.04	0.0012
4/7/15 13:50	0.603	0.04	0.001267
4/7/15 13:51	0.603	0.04	0.001333
4/7/15 13:52	0.688	0.04	0.0014
4/7/15 13:53	0.603	0.04	0.001467
4/7/15 13:54	0.688	0.04	0.001533
4/7/15 13:55	0.646	0.06	0.0016
4/7/15 13:56	0.603	0.06	0.001667
4/7/15 13:57	0.688	0.06	0.001733
4/7/15 13:58	0.688	0.06	0.0018
4/7/15 13:59	0.688	0.06	0.001867
4/7/15 14:00	0.646	0.06	0.001933
4/7/15 14:01	0.603	0.06	0.002
4/7/15 14:02	0.603	0.06	0.002
4/7/15 14:03	0.603	0.06	0.002
4/7/15 14:04	0.646	0.06	0.002
4/7/15 14:05	0.603	0.06	0.002
4/7/15 14:06	0.646	0.06	0.002
4/7/15 14:07	0.561	0.06	0.002
4/7/15 14:08	0.603	0.06	0.002
4/7/15 14:09	0.603	0.06	0.002
4/7/15 14:10	0.646	0.06	0.002
4/7/15 14:11	0.603	0.06	0.002
4/7/15 14:12	0.603	0.06	0.001933
4/7/15 14:13	0.646	0.06	0.001867
4/7/15 14:14	0.646	0.06	0.0018
4/7/15 14:15	0.603	0.06	0.001733
4/7/15 14:16	0.646	0.06	0.001667
4/7/15 14:17	0.646	0.06	0.0016

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 14:18	0.603	0.06	0.001533
4/7/15 14:19	0.603	0.06	0.001467
4/7/15 14:20	0.603	0.05	0.0014
4/7/15 14:21	0.688	0.05	0.001333
4/7/15 14:22	0.646	0.05	0.001267
4/7/15 14:23	0.688	0.05	0.0012
4/7/15 14:24	0.646	0.05	0.001133
4/7/15 14:25	0.646	0.05	0.001067
4/7/15 14:26	0.646	0.05	0.001
4/7/15 14:27	0.603	0.05	0.001
4/7/15 14:28	0.603	0.05	0.001
4/7/15 14:29	0.561	0.05	0.001
4/7/15 14:30	0.561	0.05	0.001067
4/7/15 14:31	0.646	0.05	0.001133
4/7/15 14:32	0.646	0.05	0.0012
4/7/15 14:33	0.646	0.05	0.001267
4/7/15 14:34	0.603	0.05	0.001333
4/7/15 14:35	0.561	0.05	0.0014
4/7/15 14:36	0.561	0.05	0.001467
4/7/15 14:37	0.603	0.05	0.001533
4/7/15 14:38	0.646	0.05	0.0016
4/7/15 14:39	0.561	0.05	0.001667
4/7/15 14:40	0.561	0.05	0.001733
4/7/15 14:41	0.603	0.05	0.0018
4/7/15 14:42	0.646	0.05	0.001867
4/7/15 14:43	0.688	0.05	0.001933
4/7/15 14:44	0.646	0.05	0.002
4/7/15 14:45	0.603	0.05	0.002
4/7/15 14:46	0.688	0.05	0.002
4/7/15 14:47	0.561	0.05	0.002
4/7/15 14:48	0.688	0.05	0.002
4/7/15 14:49	0.688	0.05	0.002
4/7/15 14:50	0.646	0.05	0.002
4/7/15 14:51	0.646	0.05	0.002
4/7/15 14:52	0.603	0.05	0.002
4/7/15 14:53	0.646	0.05	0.002
4/7/15 14:54	0.561	0.05	0.002
4/7/15 14:55	0.646	0.05	0.002
4/7/15 14:56	0.646	0.05	0.002
4/7/15 14:57	0.646	0.05	0.002
4/7/15 14:58	0.603	0.05	0.002
4/7/15 14:59	0.646	0.05	0.002
4/7/15 15:00	0.561	0.05	0.002
4/7/15 15:01	0.688	0.05	0.002
4/7/15 15:02	0.603	0.05	0.002

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 15:03	0.688	0.06	0.002
4/7/15 15:04	0.646	0.06	0.002
4/7/15 15:05	0.688	0.06	0.002
4/7/15 15:06	0.646	0.06	0.002067
4/7/15 15:07	0.603	0.06	0.002067
4/7/15 15:08	0.561	0.06	0.002067
4/7/15 15:09	0.688	0.06	0.002067
4/7/15 15:10	0.688	0.06	0.002067
4/7/15 15:11	0.646	0.06	0.002067
4/7/15 15:12	0.646	0.06	0.002067
4/7/15 15:13	0.603	0.06	0.002067
4/7/15 15:14	0.603	0.09	0.002067
4/7/15 15:15	0.688	0.05	0.002067
4/7/15 15:16	0.646	0.05	0.002067
4/7/15 15:17	0.646	0.05	0.002067
4/7/15 15:18	0.603	0.05	0.002067
4/7/15 15:19	0.688	0.05	0.002067
4/7/15 15:20	0.603	0.05	0.002067
4/7/15 15:21	0.603	0.05	0.002
4/7/15 15:22	0.646	0.05	0.002
4/7/15 15:23	0.561	0.05	0.002
4/7/15 15:24	0.561	0.05	0.002
4/7/15 15:25	0.646	0.05	0.002
4/7/15 15:26	0.688	0.05	0.002
4/7/15 15:27	0.688	0.05	0.002
4/7/15 15:28	0.603	0.05	0.002
4/7/15 15:29	0.688	0.05	0.002
4/7/15 15:30	0.646	0.05	0.002
4/7/15 15:31	0.603	0.05	0.002
4/7/15 15:32	0.688	0.05	0.002
4/7/15 15:33	0.688	0.05	0.002
4/7/15 15:34	0.603	0.05	0.002
4/7/15 15:35	0.688	0.05	0.002
4/7/15 15:36	0.688	0.05	0.002
4/7/15 15:37	0.646	0.05	0.002
4/7/15 15:38	0.603	0.05	0.002
4/7/15 15:39	0.646	0.05	0.002
4/7/15 15:40	0.688	0.05	0.002
4/7/15 15:41	0.688	0.05	0.002
4/7/15 15:42	0.688	0.05	0.002
4/7/15 15:43	0.603	0.05	0.002
4/7/15 15:44	0.688	0.05	0.002
4/7/15 15:45	0.603	0.05	0.002
4/7/15 15:46	0.603	0.05	0.002
4/7/15 15:47	0.603	0.05	0.002

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 15:48	0.646	0.05	0.002
4/7/15 15:49	0.646	0.05	0.002
4/7/15 15:50	0.688	0.05	0.001933
4/7/15 15:51	0.561	0.05	0.001867
4/7/15 15:52	0.603	0.05	0.0018
4/7/15 15:53	0.603	0.05	0.001733
4/7/15 15:54	0.646	0.05	0.001667
4/7/15 15:55	0.561	0.05	0.0016
4/7/15 15:56	0.646	0.05	0.001533
4/7/15 15:57	0.646	0.05	0.001467
4/7/15 15:58	0.603	0.04	0.0014
4/7/15 15:59	0.561	0.04	0.001333
4/7/15 16:00	0.603	0.04	0.001267
4/7/15 16:01	0.603	0.04	0.0012
4/7/15 16:02	0.603	0.04	0.0012
4/7/15 16:03	0.646	0.04	0.0012
4/7/15 16:04	0.603	0.04	0.0012
4/7/15 16:05	0.603	0.04	0.001267
4/7/15 16:06	0.561	0.04	0.001333
4/7/15 16:07	0.561	0.04	0.0014
4/7/15 16:08	0.603	0.04	0.001467
4/7/15 16:09	0.603	0.04	0.001467
4/7/15 16:10	0.688	0.06	0.001467
4/7/15 16:11	0.646	0.05	0.001467
4/7/15 16:12	0.603	0.05	0.001467
4/7/15 16:13	0.646	0.05	0.001467
4/7/15 16:14	0.561	0.05	0.001467
4/7/15 16:15	0.646	0.05	0.001467
4/7/15 16:16	0.603	0.05	0.001467
4/7/15 16:17	0.561	0.04	0.0014
4/7/15 16:18	0.561	0.04	0.001333
4/7/15 16:19	0.603	0.04	0.001267
4/7/15 16:20	0.646	0.04	0.0012
4/7/15 16:21	0.561	0.04	0.001133
4/7/15 16:22	0.646	0.04	0.001067
4/7/15 16:23	0.646	0.04	0.001
4/7/15 16:24	0.646	0.04	0.001
4/7/15 16:25	0.603	0.04	0.001
4/7/15 16:26	0.603	0.04	0.001
4/7/15 16:27	0.646	0.04	0.001
4/7/15 16:28	0.688	0.04	0.001
4/7/15 16:29	0.688	0.04	0.001
4/7/15 16:30	0.603	0.04	0.001
4/7/15 16:31	0.688	0.04	0.001
4/7/15 16:32	0.603	0.04	0.001

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 16:33	0.646	0.04	0.001
4/7/15 16:34	0.646	0.04	0.001
4/7/15 16:35	0.688	0.04	0.001
4/7/15 16:36	0.688	0.04	0.001
4/7/15 16:37	0.603	0.04	0.001
4/7/15 16:38	0.603	0.04	0.001
4/7/15 16:39	0.561	0.04	0.001
4/7/15 16:40	0.688	0.03	0.001
4/7/15 16:41	0.603	0.03	0.001
4/7/15 16:42	0.603	0.03	0.001
4/7/15 16:43	0.688	0.03	0.001
4/7/15 16:44	0.603	0.03	0.001
4/7/15 16:45	0.688	0.03	0.001
4/7/15 16:46	0.646	0.04	0.001
4/7/15 16:47	0.688	0.04	0.001
4/7/15 16:48	0.688	0.04	0.001
4/7/15 16:49	0.518	0.06	0.001
4/7/15 16:50	0.646	0.06	0.001
4/7/15 16:51	0.561	0.06	0.001
4/7/15 16:52	0.646	0.03	0.001
4/7/15 16:53	0.646	0.03	0.001
4/7/15 16:54	0.646	0.03	0.001
4/7/15 16:55	0.561	0.02	0.001
4/7/15 16:56	0.646	0.02	0.001
4/7/15 16:57	0.646	0.02	0.001
4/7/15 16:58	0.688	0.02	0.001133
4/7/15 16:59	0.688	0.02	0.001267
4/7/15 17:00	0.646	0.02	0.0014
4/7/15 17:01	0.646	0.02	0.0016
4/7/15 17:02	0.688	0.02	0.001733
4/7/15 17:03	0.816	0.02	0.001867
4/7/15 17:04	0.774	0.02	0.002
4/7/15 17:05	0.731	0.02	0.002133
4/7/15 17:06	0.859	0.06	0.002267
4/7/15 17:07	0.774	0.06	0.0024
4/7/15 17:08	0.859	0.06	0.002533
4/7/15 17:09	0.902	0.07	0.002667
4/7/15 17:10	0.902	0.06	0.0028
4/7/15 17:11	0.859	0.05	0.002933
4/7/15 17:12	0.902	0.06	0.003067
4/7/15 17:13	0.859	0.06	0.003
4/7/15 17:14	0.88	0.06	0.003
4/7/15 17:15	0.944	0.06	0.002933
4/7/15 17:16	0.902	0.06	0.0028
4/7/15 17:17	0.902	0.06	0.002733

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 17:18	0.944	0.06	0.002667
4/7/15 17:19	0.816	0.07	0.002667
4/7/15 17:20	0.902	0.05	0.002667
4/7/15 17:21	0.816	0.05	0.0026
4/7/15 17:22	0.816	0.05	0.0026
4/7/15 17:23	0.774	0.05	0.002533
4/7/15 17:24	0.774	0.05	0.002467
4/7/15 17:25	0.774	0.05	0.0024
4/7/15 17:26	0.859	0.05	0.002333
4/7/15 17:27	0.859	0.07	0.002267
4/7/15 17:28	0.816	0.06	0.0022
4/7/15 17:29	0.859	0.05	0.002133
4/7/15 17:30	0.731	0.07	0.002133
4/7/15 17:31	0.816	0.05	0.002067
4/7/15 17:32	0.774	0.05	0.002
4/7/15 17:33	0.731	0.05	0.001933
4/7/15 17:34	0.774	0.05	0.001867
4/7/15 17:35	0.774	0.05	0.0018
4/7/15 17:36	0.688	0.03	0.001933
4/7/15 17:37	0.731	0.05	0.0018
4/7/15 17:38	0.774	0.04	0.001733
4/7/15 17:39	0.774	0.02	0.001733
4/7/15 17:40	0.731	0.02	0.001733
4/7/15 17:41	0.731	0.03	0.001867
4/7/15 17:42	0.816	0.05	0.002067
4/7/15 17:43	0.774	0.05	0.002067
4/7/15 17:44	0.774	0.09	0.002
4/7/15 17:45	0.731	0.02	0.002
4/7/15 17:46	0.688	0.02	0.002067
4/7/15 17:47	0.774	0.04	0.002133
4/7/15 17:48	0.731	0.01	0.002133
4/7/15 17:49	0.646	0.12	0.002133
4/7/15 17:50	0.731	0.13	0.002133
4/7/15 17:51	0.646	0.04	0.002
4/7/15 17:52	0.688	0.04	0.002067
4/7/15 17:53	0.688	0.04	0.002133
4/7/15 17:54	0.688	0.06	0.002133
4/7/15 17:55	0.774	0.01	0.002133
4/7/15 17:56	0.731	0.03	0.001933
4/7/15 17:57	0.774	0.04	0.001667
4/7/15 17:58	0.688	0.04	0.001667
4/7/15 17:59	0.774	0.04	0.001667
4/7/15 18:00	0.774	0.04	0.0016
4/7/15 18:01	0.688	0.05	0.001667
4/7/15 18:02	0.688	0.05	0.0018

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 18:03	0.731	0.05	0.002
4/7/15 18:04	0.688	0.02	0.002133
4/7/15 18:05	0.688	0.02	0.002267
4/7/15 18:06	0.774	0.02	0.0024
4/7/15 18:07	0.688	0.02	0.002533
4/7/15 18:08	0.731	0.02	0.002667
4/7/15 18:09	0.774	0.06	0.0028
4/7/15 18:10	0.646	0.12	0.002933
4/7/15 18:11	0.688	0.12	0.003133
4/7/15 18:12	0.646	0.12	0.003333
4/7/15 18:13	0.774	0.12	0.003533
4/7/15 18:14	0.646	0.12	0.0036
4/7/15 18:15	0.688	0.12	0.003667
4/7/15 18:16	0.603	0.12	0.0036
4/7/15 18:17	0.688	0.12	0.003467
4/7/15 18:18	0.731	0.12	0.003267
4/7/15 18:19	0.646	0.12	0.003067
4/7/15 18:20	0.646	0.12	0.002867
4/7/15 18:21	0.688	0.12	0.002667
4/7/15 18:22	0.731	0.04	0.0026
4/7/15 18:23	0.646	0.04	0.002533
4/7/15 18:24	0.688	0.04	0.002467
4/7/15 18:25	0.646	0.04	0.0024
4/7/15 18:26	0.646	0.04	0.0022
4/7/15 18:27	0.688	0.04	0.002
4/7/15 18:28	0.646	0.04	0.0018
4/7/15 18:29	0.731	0.04	0.001733
4/7/15 18:30	0.646	0.08	0.001667
4/7/15 18:31	0.603	0.08	0.0016
4/7/15 18:32	0.646	0.08	0.001533
4/7/15 18:33	0.688	0.08	0.001533
4/7/15 18:34	0.646	0.04	0.001533
4/7/15 18:35	0.731	0.04	0.001533
4/7/15 18:36	0.646	0.04	0.001533
4/7/15 18:37	0.688	0.04	0.0014
4/7/15 18:38	0.603	0.02	0.001267
4/7/15 18:39	0.688	0.02	0.001133
4/7/15 18:40	0.731	0.02	0.001
4/7/15 18:41	0.688	0.02	0.001
4/7/15 18:42	0.688	0.02	0.001
4/7/15 18:43	0.646	0.02	0.001
4/7/15 18:44	0.603	0.02	0.001
4/7/15 18:45	0.603	0.02	0.001
4/7/15 18:46	0.731	0.02	0.001
4/7/15 18:47	0.603	0.02	0.001

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 18:48	0.646	0.02	0.001
4/7/15 18:49	0.688	0.02	0.001
4/7/15 18:50	0.603	0.02	0.001
4/7/15 18:51	0.688	0.02	0.001
4/7/15 18:52	0.646	0.02	0.001133
4/7/15 18:53	0.688	0.02	0.0012
4/7/15 18:54	0.603	0.02	0.001267
4/7/15 18:55	0.603	0.02	0.001333
4/7/15 18:56	0.688	0.02	0.0014
4/7/15 18:57	0.603	0.02	0.001467
4/7/15 18:58	0.646	0.02	0.001533
4/7/15 18:59	0.688	0.02	0.0016
4/7/15 19:00	0.603	0.1	0.001667
4/7/15 19:01	0.731	0.04	0.001733
4/7/15 19:02	0.688	0.04	0.0018
4/7/15 19:03	0.646	0.04	0.001867
4/7/15 19:04	0.646	0.04	0.001933
4/7/15 19:05	0.646	0.04	0.002
4/7/15 19:06	0.688	0.04	0.002067
4/7/15 19:07	0.688	0.04	0.002
4/7/15 19:08	0.731	0.04	0.002
4/7/15 19:09	0.688	0.04	0.002
4/7/15 19:10	0.646	0.04	0.002
4/7/15 19:11	0.688	0.04	0.001933
4/7/15 19:12	0.646	0.04	0.001867
4/7/15 19:13	0.688	0.04	0.0018
4/7/15 19:14	0.646	0.04	0.001733
4/7/15 19:15	0.688	0.04	0.001667
4/7/15 19:16	0.731	0.04	0.001867
4/7/15 19:17	0.688	0.04	0.002067
4/7/15 19:18	0.731	0.04	0.002267
4/7/15 19:19	0.688	0.04	0.002467
4/7/15 19:20	0.646	0.04	0.002667
4/7/15 19:21	0.688	0.04	0.002867
4/7/15 19:22	0.688	0.04	0.003067
4/7/15 19:23	0.603	0.04	0.003267
4/7/15 19:24	0.603	0.17	0.003467
4/7/15 19:25	0.688	0.17	0.003667
4/7/15 19:26	0.646	0.17	0.003933
4/7/15 19:27	0.688	0.17	0.0042
4/7/15 19:28	0.646	0.17	0.004467
4/7/15 19:29	0.688	0.17	0.004733
4/7/15 19:30	0.731	0.17	0.005
4/7/15 19:31	0.688	0.17	0.005
4/7/15 19:32	0.646	0.17	0.005

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 19:33	0.731	0.17	0.005
4/7/15 19:34	0.603	0.17	0.005
4/7/15 19:35	0.688	0.17	0.005
4/7/15 19:36	0.646	0.17	0.005
4/7/15 19:37	0.646	0.17	0.005
4/7/15 19:38	0.731	0.17	0.005
4/7/15 19:39	0.646	0.17	0.005
4/7/15 19:40	0.646	0.17	0.005
4/7/15 19:41	0.603	0.17	0.005
4/7/15 19:42	0.603	0.17	0.005
4/7/15 19:43	0.688	0.17	0.005
4/7/15 19:44	0.646	0.17	0.005
4/7/15 19:45	0.646	0.17	0.005
4/7/15 19:46	0.646	0.17	0.005
4/7/15 19:47	0.688	0.17	0.005
4/7/15 19:48	0.688	0.17	0.005
4/7/15 19:49	0.731	0.17	0.005
4/7/15 19:50	0.688	0.17	0.004867
4/7/15 19:51	0.646	0.17	0.0048
4/7/15 19:52	0.688	0.17	0.0046
4/7/15 19:53	0.688	0.17	0.004467
4/7/15 19:54	0.688	0.17	0.0042
4/7/15 19:55	0.688	0.17	0.004
4/7/15 19:56	0.603	0.17	0.0038
4/7/15 19:57	0.688	0.17	0.0036
4/7/15 19:58	0.603	0.08	0.0034
4/7/15 19:59	0.688	0.1	0.0032
4/7/15 20:00	0.603	0.08	0.003
4/7/15 20:01	0.646	0.08	0.0028
4/7/15 20:02	0.603	0.02	0.0026
4/7/15 20:03	0.603	0.07	0.0024
4/7/15 20:04	0.646	0.07	0.0022
4/7/15 20:05	0.688	0.07	0.002133
4/7/15 20:06	0.646	0.07	0.002
4/7/15 20:07	0.646	0.07	0.002
4/7/15 20:08	0.731	0.07	0.001933
4/7/15 20:09	0.688	0.07	0.002
4/7/15 20:10	0.603	0.07	0.002
4/7/15 20:11	0.731	0.07	0.002
4/7/15 20:12	0.688	0.07	0.002067
4/7/15 20:13	0.688	0.07	0.002467
4/7/15 20:14	0.688	0.07	0.003267
4/7/15 20:15	0.731	0.07	0.0056
4/7/15 20:16	0.688	0.07	0.0088
4/7/15 20:17	0.731	0.07	0.0136

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 20:18	0.774	0.07	0.018733
4/7/15 20:19	0.774	0.04	0.025667
4/7/15 20:20	0.816	0.07	0.031867
4/7/15 20:21	0.816	0.17	0.038667
4/7/15 20:22	0.902	0.26	0.047067
4/7/15 20:23	1.498	0.32	0.055067
4/7/15 20:24	1.754	0.34	0.069733
4/7/15 20:25	2.052	0.4	0.081933
4/7/15 20:26	2.138	0.4	0.0954
4/7/15 20:27	2.606	0.4	0.11
4/7/15 20:28	2.649	0.35	0.124333
4/7/15 20:29	2.734	0.36	0.138067
4/7/15 20:30	2.819	0.43	0.1542
4/7/15 20:31	2.862	0.4	0.168867
4/7/15 20:32	2.947	0.7	0.176133
4/7/15 20:33	2.905	0.6	0.185067
4/7/15 20:34	2.947	0.64	0.192533
4/7/15 20:35	3.033	0.67	0.2008
4/7/15 20:36	3.16	0.63	0.209133
4/7/15 20:37	3.288	0.59	0.217733
4/7/15 20:38	3.331	0.73	0.228533
4/7/15 20:39	3.331	0.71	0.2306
4/7/15 20:40	3.288	0.49	0.236667
4/7/15 20:41	3.288	0.57	0.2374
4/7/15 20:42	3.203	0.6	0.240267
4/7/15 20:43	3.203	0.61	0.2384
4/7/15 20:44	3.16	0.65	0.236933
4/7/15 20:45	3.16	0.73	0.236267
4/7/15 20:46	3.16	0.8	0.233333
4/7/15 20:47	3.203	0.7	0.237
4/7/15 20:48	3.246	0.75	0.240267
4/7/15 20:49	3.203	0.6	0.243533
4/7/15 20:50	3.246	0.72	0.244333
4/7/15 20:51	3.16	0.55	0.243867
4/7/15 20:52	3.16	0.56	0.239667
4/7/15 20:53	3.118	0.78	0.232133
4/7/15 20:54	3.118	0.65	0.226333
4/7/15 20:55	3.033	0.72	0.221267
4/7/15 20:56	2.905	0.84	0.217333
4/7/15 20:57	2.947	0.84	0.209533
4/7/15 20:58	2.862	0.76	0.2072
4/7/15 20:59	2.862	0.73	0.2032
4/7/15 21:00	2.777	0.67	0.194133
4/7/15 21:01	2.734	0.6	0.188333
4/7/15 21:02	2.692	0.6	0.1812

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 21:03	2.734	0.7	0.171933
4/7/15 21:04	2.692	0.56	0.162867
4/7/15 21:05	2.606	0.56	0.154667
4/7/15 21:06	2.606	0.6	0.147733
4/7/15 21:07	2.478	0.56	0.142667
4/7/15 21:08	2.521	0.53	0.138333
4/7/15 21:09	2.521	0.55	0.1344
4/7/15 21:10	2.436	0.55	0.127933
4/7/15 21:11	2.351	0.54	0.123333
4/7/15 21:12	2.393	0.56	0.119933
4/7/15 21:13	2.308	0.49	0.1156
4/7/15 21:14	2.308	0.53	0.1122
4/7/15 21:15	2.308	0.53	0.109133
4/7/15 21:16	2.223	0.51	0.104933
4/7/15 21:17	2.18	0.53	0.101267
4/7/15 21:18	2.265	0.48	0.098133
4/7/15 21:19	2.138	0.44	0.094333
4/7/15 21:20	2.18	0.48	0.091467
4/7/15 21:21	2.18	0.47	0.0878
4/7/15 21:22	2.138	0.44	0.083933
4/7/15 21:23	2.095	0.45	0.081
4/7/15 21:24	2.01	0.42	0.078067
4/7/15 21:25	2.01	0.42	0.0748
4/7/15 21:26	2.01	0.42	0.072533
4/7/15 21:27	1.967	0.42	0.069333
4/7/15 21:28	1.839	0.41	0.066133
4/7/15 21:29	1.882	0.39	0.063467
4/7/15 21:30	1.797	0.39	0.0608
4/7/15 21:31	1.839	0.39	0.058467
4/7/15 21:32	1.839	0.4	0.056467
4/7/15 21:33	1.711	0.38	0.0544
4/7/15 21:34	1.754	0.36	0.052
4/7/15 21:35	1.754	0.33	0.050467
4/7/15 21:36	1.711	0.33	0.049
4/7/15 21:37	1.669	0.34	0.047533
4/7/15 21:38	1.711	0.33	0.045667
4/7/15 21:39	1.626	0.31	0.043867
4/7/15 21:40	1.711	0.32	0.042867
4/7/15 21:41	1.583	0.36	0.0414
4/7/15 21:42	1.626	0.28	0.040267
4/7/15 21:43	1.626	0.32	0.0394
4/7/15 21:44	1.626	0.31	0.0384
4/7/15 21:45	1.583	0.3	0.0372
4/7/15 21:46	1.498	0.29	0.036533
4/7/15 21:47	1.541	0.3	0.035667

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 21:48	1.541	0.32	0.034667
4/7/15 21:49	1.541	0.26	0.034067
4/7/15 21:50	1.498	0.27	0.0336
4/7/15 21:51	1.541	0.28	0.032533
4/7/15 21:52	1.498	0.27	0.0318
4/7/15 21:53	1.541	0.24	0.031267
4/7/15 21:54	1.541	0.26	0.0306
4/7/15 21:55	1.541	0.28	0.029733
4/7/15 21:56	1.456	0.26	0.029133
4/7/15 21:57	1.498	0.25	0.0286
4/7/15 21:58	1.498	0.3	0.027733
4/7/15 21:59	1.37	0.24	0.027067
4/7/15 22:00	1.456	0.25	0.0264
4/7/15 22:01	1.413	0.24	0.025467
4/7/15 22:02	1.37	0.25	0.024467
4/7/15 22:03	1.37	0.26	0.023333
4/7/15 22:04	1.328	0.22	0.022733
4/7/15 22:05	1.37	0.23	0.0214
4/7/15 22:06	1.413	0.2	0.0208
4/7/15 22:07	1.285	0.24	0.0198
4/7/15 22:08	1.328	0.2	0.018933
4/7/15 22:09	1.285	0.18	0.0182
4/7/15 22:10	1.285	0.19	0.017333
4/7/15 22:11	1.242	0.15	0.016733
4/7/15 22:12	1.37	0.19	0.016067
4/7/15 22:13	1.285	0.17	0.0154
4/7/15 22:14	1.242	0.19	0.014667
4/7/15 22:15	1.2	0.14	0.014133
4/7/15 22:16	1.285	0.14	0.013667
4/7/15 22:17	1.242	0.17	0.013267
4/7/15 22:18	1.285	0.14	0.013067
4/7/15 22:19	1.242	0.15	0.012467
4/7/15 22:20	1.242	0.16	0.0122
4/7/15 22:21	1.157	0.14	0.011733
4/7/15 22:22	1.2	0.13	0.011467
4/7/15 22:23	1.157	0.14	0.0112
4/7/15 22:24	1.2	0.12	0.0108
4/7/15 22:25	1.2	0.15	0.010467
4/7/15 22:26	1.157	0.12	0.0102
4/7/15 22:27	1.115	0.14	0.0098
4/7/15 22:28	1.2	0.14	0.0096
4/7/15 22:29	1.115	0.12	0.009467
4/7/15 22:30	1.157	0.11	0.0092
4/7/15 22:31	1.2	0.11	0.009
4/7/15 22:32	1.2	0.1	0.0086

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 22:33	1.115	0.1	0.008267
4/7/15 22:34	1.157	0.12	0.007867
4/7/15 22:35	1.072	0.11	0.007533
4/7/15 22:36	1.072	0.12	0.007333
4/7/15 22:37	1.157	0.11	0.007267
4/7/15 22:38	1.072	0.1	0.007067
4/7/15 22:39	1.115	0.09	0.0068
4/7/15 22:40	1.072	0.08	0.006667
4/7/15 22:41	1.072	0.07	0.006333
4/7/15 22:42	1.029	0.07	0.006133
4/7/15 22:43	1.157	0.07	0.005867
4/7/15 22:44	1.029	0.08	0.005533
4/7/15 22:45	1.157	0.08	0.005333
4/7/15 22:46	1.115	0.08	0.005133
4/7/15 22:47	1.115	0.07	0.005
4/7/15 22:48	1.115	0.08	0.004933
4/7/15 22:49	1.072	0.06	0.004867
4/7/15 22:50	1.115	0.06	0.004733
4/7/15 22:51	1.072	0.06	0.004533
4/7/15 22:52	0.987	0.06	0.004267
4/7/15 22:53	1.115	0.05	0.004133
4/7/15 22:54	0.987	0.06	0.004067
4/7/15 22:55	1.115	0.06	0.003933
4/7/15 22:56	1.115	0.06	0.003933
4/7/15 22:57	1.072	0.05	0.0038
4/7/15 22:58	1.072	0.06	0.0038
4/7/15 22:59	0.944	0.05	0.003733
4/7/15 23:00	0.987	0.05	0.003667
4/7/15 23:01	1.029	0.05	0.0036
4/7/15 23:02	0.944	0.07	0.003533
4/7/15 23:03	1.072	0.06	0.0034
4/7/15 23:04	1.029	0.06	0.0034
4/7/15 23:05	0.944	0.05	0.003333
4/7/15 23:06	0.987	0.06	0.003333
4/7/15 23:07	0.987	0.05	0.003333
4/7/15 23:08	0.987	0.05	0.003267
4/7/15 23:09	1.029	0.05	0.0032
4/7/15 23:10	0.987	0.06	0.003133
4/7/15 23:11	0.902	0.04	0.003133
4/7/15 23:12	1.029	0.05	0.003133
4/7/15 23:13	0.944	0.05	0.003067
4/7/15 23:14	1.029	0.05	0.003067
4/7/15 23:15	1.029	0.05	0.003067
4/7/15 23:16	0.987	0.05	0.003067
4/7/15 23:17	0.987	0.05	0.003067

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/7/15 23:18	0.987	0.05	0.003133
4/7/15 23:19	1.029	0.05	0.003067
4/7/15 23:20	0.944	0.05	0.003067
4/7/15 23:21	0.987	0.05	0.003067
4/7/15 23:22	0.987	0.04	0.003067
4/7/15 23:23	0.987	0.05	0.003
4/7/15 23:24	0.987	0.05	0.003
4/7/15 23:25	0.902	0.05	0.003
4/7/15 23:26	0.944	0.05	0.002867
4/7/15 23:27	0.944	0.05	0.0028
4/7/15 23:28	0.944	0.05	0.002733
4/7/15 23:29	0.944	0.05	0.002667
4/7/15 23:30	0.987	0.04	0.0026
4/7/15 23:31	0.944	0.04	0.002533
4/7/15 23:32	0.902	0.05	0.002467
4/7/15 23:33	0.902	0.05	0.0024
4/7/15 23:34	0.902	0.04	0.002333
4/7/15 23:35	0.944	0.04	0.002267
4/7/15 23:36	0.944	0.04	0.0022
4/7/15 23:37	0.902	0.04	0.002133
4/7/15 23:38	0.944	0.04	0.002133
4/7/15 23:39	0.859	0.04	0.002067
4/7/15 23:40	0.987	0.04	0.002
4/7/15 23:41	0.859	0.04	0.002
4/7/15 23:42	0.859	0.04	0.002
4/7/15 23:43	0.859	0.04	0.002
4/7/15 23:44	0.944	0.04	0.002
4/7/15 23:45	0.859	0.04	0.002
4/7/15 23:46	0.944	0.04	0.002
4/7/15 23:47	0.859	0.04	0.002
4/7/15 23:48	0.944	0.04	0.002
4/7/15 23:49	0.944	0.04	0.002
4/7/15 23:50	0.859	0.05	0.002
4/7/15 23:51	0.902	0.04	0.002067
4/7/15 23:52	0.902	0.04	0.002067
4/7/15 23:53	0.859	0.04	0.002067
4/7/15 23:54	0.944	0.04	0.002067
4/7/15 23:55	0.859	0.04	0.002067
4/7/15 23:56	0.902	0.04	0.002067
4/7/15 23:57	0.902	0.04	0.002067
4/7/15 23:58	0.902	0.04	0.002067
4/7/15 23:59	0.859	0.05	0.002067
4/8/15 0:00	0.902	0.04	0.002067
4/8/15 0:01	0.859	0.04	0.002067
4/8/15 0:02	0.902	0.04	0.002133

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/8/15 0:03	0.859	0.04	0.0022
4/8/15 0:04	0.859	0.04	0.002267
4/8/15 0:05	0.902	0.04	0.002333
4/8/15 0:06	0.816	0.04	0.002267
4/8/15 0:07	0.902	0.04	0.002267
4/8/15 0:08	0.859	0.04	0.002267
4/8/15 0:09	0.816	0.04	0.002333
4/8/15 0:10	0.944	0.05	0.0024
4/8/15 0:11	0.859	0.05	0.0024
4/8/15 0:12	0.902	0.05	0.0024
4/8/15 0:13	0.859	0.05	0.0024
4/8/15 0:14	0.902	0.04	0.0028
4/8/15 0:15	0.902	0.04	0.0028
4/8/15 0:16	0.859	0.04	0.002867
4/8/15 0:17	0.859	0.05	0.002867
4/8/15 0:18	0.902	0.05	0.002867
4/8/15 0:19	0.859	0.04	0.002867
4/8/15 0:20	0.902	0.04	0.002867
4/8/15 0:21	0.774	0.04	0.002933
4/8/15 0:22	0.902	0.14	0.002933
4/8/15 0:23	0.859	0.05	0.002933
4/8/15 0:24	0.816	0.07	0.002867
4/8/15 0:25	0.859	0.07	0.0028
4/8/15 0:26	0.816	0.07	0.0028
4/8/15 0:27	0.859	0.06	0.0028
4/8/15 0:28	0.902	0.05	0.0028
4/8/15 0:29	0.902	0.05	0.0024
4/8/15 0:30	0.859	0.05	0.0024
4/8/15 0:31	0.774	0.04	0.0024
4/8/15 0:32	0.816	0.04	0.0024
4/8/15 0:33	0.816	0.04	0.0024
4/8/15 0:34	0.902	0.04	0.0024
4/8/15 0:35	0.859	0.04	0.0024
4/8/15 0:36	0.816	0.05	0.0024
4/8/15 0:37	0.774	0.04	0.002467
4/8/15 0:38	0.859	0.04	0.002533
4/8/15 0:39	0.902	0.05	0.002533
4/8/15 0:40	0.859	0.05	0.002533
4/8/15 0:41	0.816	0.05	0.0026
4/8/15 0:42	0.859	0.05	0.002667
4/8/15 0:43	0.816	0.05	0.002733
4/8/15 0:44	0.859	0.05	0.0028
4/8/15 0:45	0.859	0.05	0.002867
4/8/15 0:46	0.774	0.05	0.002867
4/8/15 0:47	0.774	0.04	0.0028

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/8/15 0:48	0.816	0.04	0.002733
4/8/15 0:49	0.816	0.06	0.002667
4/8/15 0:50	0.774	0.06	0.0026
4/8/15 0:51	0.774	0.06	0.002533
4/8/15 0:52	0.774	0.06	0.002467
4/8/15 0:53	0.774	0.06	0.0024
4/8/15 0:54	0.859	0.06	0.0024
4/8/15 0:55	0.774	0.04	0.0024
4/8/15 0:56	0.774	0.05	0.0024
4/8/15 0:57	0.816	0.04	0.002333
4/8/15 0:58	0.774	0.04	0.002267
4/8/15 0:59	0.816	0.05	0.0022
4/8/15 1:00	0.774	0.04	0.002133
4/8/15 1:01	0.774	0.04	0.002067
4/8/15 1:02	0.816	0.04	0.002067
4/8/15 1:03	0.816	0.04	0.002067
4/8/15 1:04	0.859	0.06	0.002067
4/8/15 1:05	0.816	0.05	0.002067
4/8/15 1:06	0.731	0.05	0.002067
4/8/15 1:07	0.859	0.05	0.002067
4/8/15 1:08	0.816	0.05	0.002067
4/8/15 1:09	0.816	0.04	0.002067
4/8/15 1:10	0.774	0.04	0.002067
4/8/15 1:11	0.731	0.05	0.002
4/8/15 1:12	0.859	0.05	0.002
4/8/15 1:13	0.816	0.05	0.002
4/8/15 1:14	0.859	0.05	0.002
4/8/15 1:15	0.774	0.05	0.002067
4/8/15 1:16	0.774	0.05	0.002133
4/8/15 1:17	0.816	0.05	0.0022
4/8/15 1:18	0.902	0.05	0.002267
4/8/15 1:19	0.816	0.04	0.002333
4/8/15 1:20	0.816	0.04	0.0024
4/8/15 1:21	0.859	0.04	0.002467
4/8/15 1:22	0.816	0.05	0.002533
4/8/15 1:23	0.816	0.06	0.0026
4/8/15 1:24	0.816	0.06	0.002667
4/8/15 1:25	0.902	0.06	0.002733
4/8/15 1:26	0.859	0.06	0.0028
4/8/15 1:27	0.731	0.06	0.002867
4/8/15 1:28	0.731	0.06	0.003
4/8/15 1:29	0.774	0.06	0.003133
4/8/15 1:30	0.816	0.06	0.003133
4/8/15 1:31	0.859	0.06	0.003133
4/8/15 1:32	0.859	0.06	0.003133

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/8/15 1:33	0.859	0.06	0.003133
4/8/15 1:34	0.774	0.06	0.003133
4/8/15 1:35	0.774	0.06	0.003133
4/8/15 1:36	0.774	0.09	0.003133
4/8/15 1:37	0.816	0.09	0.003133
4/8/15 1:38	0.902	0.06	0.003133
4/8/15 1:39	0.816	0.07	0.003133
4/8/15 1:40	0.816	0.07	0.003133
4/8/15 1:41	0.816	0.07	0.003067
4/8/15 1:42	0.774	0.07	0.003067
4/8/15 1:43	0.859	0.07	0.002933
4/8/15 1:44	0.859	0.07	0.0028
4/8/15 1:45	0.774	0.07	0.002733
4/8/15 1:46	0.859	0.07	0.002667
4/8/15 1:47	0.774	0.07	0.0026
4/8/15 1:48	0.859	0.07	0.002533
4/8/15 1:49	0.774	0.05	0.0028
4/8/15 1:50	0.774	0.07	0.003067
4/8/15 1:51	0.859	0.04	0.003333
4/8/15 1:52	0.859	0.04	0.003333
4/8/15 1:53	0.774	0.04	0.003333
4/8/15 1:54	0.774	0.04	0.003333
4/8/15 1:55	0.774	0.04	0.003333
4/8/15 1:56	0.816	0.04	0.0034
4/8/15 1:57	0.816	0.15	0.0034
4/8/15 1:58	0.859	0.15	0.003467
4/8/15 1:59	0.774	0.15	0.003533
4/8/15 2:00	0.774	0.07	0.0036
4/8/15 2:01	0.859	0.07	0.003667
4/8/15 2:02	0.774	0.07	0.003733
4/8/15 2:03	0.774	0.07	0.0038
4/8/15 2:04	0.816	0.07	0.003533
4/8/15 2:05	0.774	0.07	0.003267
4/8/15 2:06	0.816	0.07	0.003
4/8/15 2:07	0.859	0.07	0.003
4/8/15 2:08	0.816	0.07	0.003
4/8/15 2:09	0.816	0.07	0.003
4/8/15 2:10	0.816	0.07	0.003
4/8/15 2:11	0.774	0.07	0.003
4/8/15 2:12	0.774	0.07	0.003
4/8/15 2:13	0.859	0.07	0.003
4/8/15 2:14	0.816	0.07	0.003
4/8/15 2:15	0.816	0.07	0.003
4/8/15 2:16	0.859	0.07	0.003
4/8/15 2:17	0.816	0.07	0.003

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/8/15 2:18	0.859	0.07	0.003
4/8/15 2:19	0.859	0.07	0.003
4/8/15 2:20	0.774	0.07	0.003
4/8/15 2:21	0.816	0.07	0.003
4/8/15 2:22	0.859	0.07	0.003067
4/8/15 2:23	0.816	0.07	0.003133
4/8/15 2:24	0.859	0.07	0.0032
4/8/15 2:25	0.859	0.07	0.003267
4/8/15 2:26	0.731	0.07	0.003333
4/8/15 2:27	0.859	0.07	0.0034
4/8/15 2:28	0.731	0.07	0.003467
4/8/15 2:29	0.731	0.07	0.003533
4/8/15 2:30	0.816	0.08	0.0036
4/8/15 2:31	0.859	0.08	0.003667
4/8/15 2:32	0.816	0.08	0.003733
4/8/15 2:33	0.816	0.08	0.0038
4/8/15 2:34	0.774	0.08	0.003867
4/8/15 2:35	0.731	0.08	0.003933
4/8/15 2:36	0.774	0.08	0.004
4/8/15 2:37	0.816	0.08	0.004
4/8/15 2:38	0.731	0.08	0.004
4/8/15 2:39	0.859	0.08	0.004
4/8/15 2:40	0.731	0.08	0.004
4/8/15 2:41	0.774	0.08	0.004
4/8/15 2:42	0.774	0.08	0.004
4/8/15 2:43	0.816	0.08	0.004
4/8/15 2:44	0.816	0.08	0.004
4/8/15 2:45	0.816	0.08	0.004
4/8/15 2:46	0.774	0.08	0.004
4/8/15 2:47	0.774	0.08	0.004
4/8/15 2:48	0.816	0.08	0.004
4/8/15 2:49	0.731	0.08	0.004
4/8/15 2:50	0.816	0.08	0.004
4/8/15 2:51	0.774	0.08	0.004
4/8/15 2:52	0.774	0.08	0.004
4/8/15 2:53	0.774	0.08	0.004
4/8/15 2:54	0.731	0.08	0.004
4/8/15 2:55	0.816	0.08	0.004
4/8/15 2:56	0.859	0.08	0.004
4/8/15 2:57	0.774	0.08	0.004
4/8/15 2:58	0.816	0.08	0.004
4/8/15 2:59	0.816	0.08	0.004
4/8/15 3:00	0.859	0.08	0.004
4/8/15 3:01	0.859	0.08	0.004
4/8/15 3:02	0.774	0.08	0.004

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/8/15 3:03	0.774	0.08	0.004
4/8/15 3:04	0.774	0.08	0.004
4/8/15 3:05	0.816	0.08	0.004
4/8/15 3:06	0.774	0.08	0.004
4/8/15 3:07	0.816	0.08	0.004
4/8/15 3:08	0.731	0.08	0.004
4/8/15 3:09	0.731	0.08	0.004
4/8/15 3:10	0.816	0.08	0.004
4/8/15 3:11	0.816	0.08	0.004
4/8/15 3:12	0.731	0.08	0.004
4/8/15 3:13	0.816	0.08	0.004
4/8/15 3:14	0.731	0.08	0.004
4/8/15 3:15	0.816	0.08	0.004
4/8/15 3:16	0.816	0.08	0.004
4/8/15 3:17	0.816	0.08	0.004
4/8/15 3:18	0.816	0.08	0.004
4/8/15 3:19	0.859	0.08	0.004
4/8/15 3:20	0.816	0.08	0.004
4/8/15 3:21	0.816	0.08	0.004
4/8/15 3:22	0.816	0.08	0.004
4/8/15 3:23	0.774	0.08	0.004
4/8/15 3:24	0.816	0.08	0.004
4/8/15 3:25	0.731	0.08	0.004
4/8/15 3:26	0.816	0.08	0.004
4/8/15 3:27	0.774	0.08	0.004
4/8/15 3:28	0.774	0.08	0.004
4/8/15 3:29	0.731	0.08	0.004
4/8/15 3:30	0.859	0.08	0.004
4/8/15 3:31	0.731	0.08	0.004
4/8/15 3:32	0.774	0.08	0.004
4/8/15 3:33	0.816	0.08	0.004
4/8/15 3:34	0.731	0.08	0.004
4/8/15 3:35	0.816	0.08	0.004
4/8/15 3:36	0.816	0.08	0.004
4/8/15 3:37	0.774	0.08	0.004
4/8/15 3:38	0.731	0.08	0.004
4/8/15 3:39	0.816	0.08	0.004
4/8/15 3:40	0.731	0.08	0.004
4/8/15 3:41	0.731	0.08	0.004
4/8/15 3:42	0.816	0.08	0.004
4/8/15 3:43	0.774	0.08	0.004
4/8/15 3:44	0.688	0.08	0.004
4/8/15 3:45	0.731	0.08	0.004
4/8/15 3:46	0.731	0.08	0.004
4/8/15 3:47	0.731	0.08	0.004

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/8/15 3:48	0.774	0.08	0.004
4/8/15 3:49	0.731	0.08	0.004
4/8/15 3:50	0.816	0.08	0.004
4/8/15 3:51	0.774	0.08	0.004
4/8/15 3:52	0.774	0.08	0.004
4/8/15 3:53	0.731	0.08	0.004
4/8/15 3:54	0.816	0.08	0.004
4/8/15 3:55	0.816	0.08	0.004
4/8/15 3:56	0.774	0.08	0.004
4/8/15 3:57	0.774	0.08	0.004
4/8/15 3:58	0.816	0.08	0.004
4/8/15 3:59	0.731	0.08	0.004
4/8/15 4:00	0.774	0.08	0.004
4/8/15 4:01	0.731	0.08	0.004
4/8/15 4:02	0.731	0.08	0.004
4/8/15 4:03	0.688	0.08	0.004
4/8/15 4:04	0.731	0.08	0.004
4/8/15 4:05	0.731	0.08	0.004
4/8/15 4:06	0.731	0.08	0.003933
4/8/15 4:07	0.774	0.08	0.003867
4/8/15 4:08	0.731	0.08	0.0038
4/8/15 4:09	0.731	0.11	0.003733
4/8/15 4:10	0.816	0.11	0.003667
4/8/15 4:11	0.688	0.11	0.0036
4/8/15 4:12	0.688	0.11	0.003533
4/8/15 4:13	0.731	0.11	0.003467
4/8/15 4:14	0.816	0.06	0.0034
4/8/15 4:15	0.731	0.06	0.003333
4/8/15 4:16	0.816	0.06	0.003267
4/8/15 4:17	0.731	0.06	0.0032
4/8/15 4:18	0.688	0.06	0.003133
4/8/15 4:19	0.731	0.06	0.003067
4/8/15 4:20	0.774	0.06	0.003
4/8/15 4:21	0.774	0.06	0.003
4/8/15 4:22	0.774	0.06	0.003
4/8/15 4:23	0.816	0.06	0.003
4/8/15 4:24	0.774	0.06	0.003
4/8/15 4:25	0.774	0.06	0.003
4/8/15 4:26	0.688	0.06	0.003
4/8/15 4:27	0.774	0.06	0.003
4/8/15 4:28	0.731	0.06	0.003
4/8/15 4:29	0.688	0.06	0.003
4/8/15 4:30	0.731	0.06	0.003
4/8/15 4:31	0.774	0.06	0.003
4/8/15 4:32	0.816	0.06	0.003

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/8/15 4:33	0.774	0.06	0.003
4/8/15 4:34	0.731	0.06	0.003
4/8/15 4:35	0.774	0.06	0.003
4/8/15 4:36	0.731	0.06	0.003
4/8/15 4:37	0.774	0.06	0.003
4/8/15 4:38	0.688	0.06	0.003
4/8/15 4:39	0.816	0.06	0.003
4/8/15 4:40	0.731	0.06	0.003
4/8/15 4:41	0.774	0.06	0.003
4/8/15 4:42	0.774	0.06	0.003
4/8/15 4:43	0.816	0.06	0.003
4/8/15 4:44	0.731	0.06	0.003
4/8/15 4:45	0.731	0.06	0.003
4/8/15 4:46	0.731	0.06	0.003
4/8/15 4:47	0.731	0.06	0.003
4/8/15 4:48	0.731	0.06	0.002933
4/8/15 4:49	0.774	0.06	0.002867
4/8/15 4:50	0.731	0.06	0.0028
4/8/15 4:51	0.731	0.06	0.002733
4/8/15 4:52	0.731	0.06	0.002667
4/8/15 4:53	0.774	0.06	0.0026
4/8/15 4:54	0.688	0.06	0.002533
4/8/15 4:55	0.731	0.06	0.002467
4/8/15 4:56	0.774	0.05	0.0024
4/8/15 4:57	0.688	0.05	0.002333
4/8/15 4:58	0.774	0.05	0.002267
4/8/15 4:59	0.774	0.05	0.0022
4/8/15 5:00	0.688	0.05	0.002133
4/8/15 5:01	0.731	0.05	0.002067
4/8/15 5:02	0.774	0.05	0.002
4/8/15 5:03	0.731	0.05	0.002
4/8/15 5:04	0.816	0.05	0.002
4/8/15 5:05	0.688	0.05	0.002
4/8/15 5:06	0.816	0.05	0.002
4/8/15 5:07	0.774	0.05	0.002
4/8/15 5:08	0.774	0.05	0.002
4/8/15 5:09	0.774	0.05	0.002
4/8/15 5:10	0.774	0.05	0.002
4/8/15 5:11	0.688	0.05	0.002
4/8/15 5:12	0.688	0.05	0.002
4/8/15 5:13	0.774	0.05	0.002
4/8/15 5:14	0.731	0.05	0.002
4/8/15 5:15	0.774	0.05	0.002
4/8/15 5:16	0.774	0.05	0.002
4/8/15 5:17	0.816	0.05	0.002

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/8/15 5:18	0.731	0.05	0.002
4/8/15 5:19	0.731	0.05	0.002
4/8/15 5:20	0.688	0.05	0.002
4/8/15 5:21	0.774	0.05	0.002
4/8/15 5:22	0.774	0.05	0.002
4/8/15 5:23	0.774	0.05	0.002
4/8/15 5:24	0.688	0.05	0.002
4/8/15 5:25	0.731	0.05	0.002
4/8/15 5:26	0.688	0.05	0.002
4/8/15 5:27	0.688	0.05	0.002
4/8/15 5:28	0.774	0.05	0.002
4/8/15 5:29	0.731	0.05	0.002
4/8/15 5:30	0.731	0.05	0.002
4/8/15 5:31	0.774	0.05	0.002
4/8/15 5:32	0.731	0.05	0.002
4/8/15 5:33	0.731	0.05	0.002
4/8/15 5:34	0.731	0.05	0.002
4/8/15 5:35	0.688	0.05	0.002
4/8/15 5:36	0.688	0.05	0.002
4/8/15 5:37	0.688	0.05	0.002
4/8/15 5:38	0.816	0.05	0.002
4/8/15 5:39	0.774	0.05	0.002
4/8/15 5:40	0.731	0.05	0.002
4/8/15 5:41	0.688	0.05	0.002
4/8/15 5:42	0.731	0.05	0.002
4/8/15 5:43	0.774	0.05	0.002
4/8/15 5:44	0.688	0.05	0.002
4/8/15 5:45	0.731	0.05	0.002
4/8/15 5:46	0.774	0.05	0.002
4/8/15 5:47	0.774	0.05	0.002
4/8/15 5:48	0.774	0.05	0.002
4/8/15 5:49	0.774	0.05	0.002
4/8/15 5:50	0.731	0.05	0.002
4/8/15 5:51	0.731	0.05	0.002
4/8/15 5:52	0.774	0.05	0.002
4/8/15 5:53	0.774	0.05	0.002
4/8/15 5:54	0.688	0.05	0.002
4/8/15 5:55	0.774	0.05	0.002
4/8/15 5:56	0.731	0.05	0.002
4/8/15 5:57	0.774	0.05	0.002
4/8/15 5:58	0.731	0.05	0.002
4/8/15 5:59	0.731	0.05	0.002
4/8/15 6:00	0.731	0.05	0.002
4/8/15 6:01	0.731	0.05	0.002
4/8/15 6:02	0.731	0.05	0.002

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/8/15 6:03	0.731	0.05	0.002
4/8/15 6:04	0.774	0.05	0.002
4/8/15 6:05	0.688	0.05	0.002
4/8/15 6:06	0.774	0.05	0.002
4/8/15 6:07	0.774	0.05	0.002
4/8/15 6:08	0.731	0.05	0.002
4/8/15 6:09	0.731	0.05	0.002
4/8/15 6:10	0.774	0.05	0.002
4/8/15 6:11	0.774	0.05	0.002
4/8/15 6:12	0.731	0.05	0.002
4/8/15 6:13	0.688	0.05	0.002
4/8/15 6:14	0.688	0.05	0.002
4/8/15 6:15	0.688	0.05	0.002
4/8/15 6:16	0.774	0.05	0.002
4/8/15 6:17	0.731	0.05	0.002
4/8/15 6:18	0.688	0.05	0.002
4/8/15 6:19	0.731	0.05	0.002
4/8/15 6:20	0.774	0.05	0.002
4/8/15 6:21	0.774	0.05	0.002
4/8/15 6:22	0.731	0.05	0.002
4/8/15 6:23	0.688	0.05	0.002
4/8/15 6:24	0.774	0.05	0.002
4/8/15 6:25	0.774	0.05	0.002
4/8/15 6:26	0.688	0.05	0.002
4/8/15 6:27	0.774	0.05	0.002
4/8/15 6:28	0.688	0.05	0.002
4/8/15 6:29	0.688	0.05	0.002
4/8/15 6:30	0.816	0.05	0.002
4/8/15 6:31	0.816	0.05	0.002
4/8/15 6:32	0.816	0.05	0.002
4/8/15 6:33	0.774	0.05	0.002
4/8/15 6:34	0.816	0.05	0.002
4/8/15 6:35	0.731	0.05	0.002
4/8/15 6:36	0.731	0.05	0.002
4/8/15 6:37	0.731	0.05	0.002
4/8/15 6:38	0.688	0.05	0.002
4/8/15 6:39	0.731	0.05	0.002
4/8/15 6:40	0.731	0.05	0.002
4/8/15 6:41	0.816	0.05	0.002
4/8/15 6:42	0.816	0.05	0.002
4/8/15 6:43	0.731	0.05	0.002
4/8/15 6:44	0.774	0.05	0.002
4/8/15 6:45	0.774	0.05	0.002
4/8/15 6:46	0.816	0.05	0.002
4/8/15 6:47	0.774	0.05	0.002

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/8/15 6:48	0.816	0.05	0.002
4/8/15 6:49	0.816	0.05	0.002
4/8/15 6:50	0.774	0.05	0.002
4/8/15 6:51	0.731	0.05	0.002
4/8/15 6:52	0.731	0.05	0.002
4/8/15 6:53	0.774	0.05	0.002
4/8/15 6:54	0.816	0.05	0.002
4/8/15 6:55	0.731	0.05	0.002
4/8/15 6:56	0.816	0.05	0.002
4/8/15 6:57	0.774	0.05	0.002
4/8/15 6:58	0.774	0.05	0.002
4/8/15 6:59	0.774	0.05	0.002
4/8/15 7:00	0.774	0.05	0.002
4/8/15 7:01	0.774	0.05	0.002
4/8/15 7:02	0.816	0.05	0.002
4/8/15 7:03	0.731	0.05	0.002
4/8/15 7:04	0.816	0.05	0.002
4/8/15 7:05	0.731	0.05	0.002
4/8/15 7:06	0.774	0.05	0.002
4/8/15 7:07	0.688	0.05	0.002
4/8/15 7:08	0.774	0.05	0.002
4/8/15 7:09	0.774	0.05	0.002
4/8/15 7:10	0.731	0.05	0.002
4/8/15 7:11	0.774	0.05	0.002
4/8/15 7:12	0.774	0.05	0.002
4/8/15 7:13	0.731	0.05	0.002
4/8/15 7:14	0.774	0.05	0.002
4/8/15 7:15	0.731	0.05	0.002
4/8/15 7:16	0.731	0.05	0.002
4/8/15 7:17	0.731	0.05	0.002
4/8/15 7:18	0.774	0.05	0.002
4/8/15 7:19	0.816	0.05	0.002
4/8/15 7:20	0.816	0.05	0.002
4/8/15 7:21	0.816	0.05	0.002
4/8/15 7:22	0.774	0.05	0.002
4/8/15 7:23	0.774	0.05	0.002
4/8/15 7:24	0.731	0.05	0.002
4/8/15 7:25	0.816	0.05	0.002
4/8/15 7:26	0.731	0.05	0.002
4/8/15 7:27	0.731	0.05	0.002
4/8/15 7:28	0.816	0.05	0.002
4/8/15 7:29	0.688	0.05	0.002
4/8/15 7:30	0.688	0.05	0.002
4/8/15 7:31	0.774	0.05	0.002
4/8/15 7:32	0.816	0.05	0.002

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/8/15 7:33	0.816	0.05	0.002
4/8/15 7:34	0.816	0.05	0.002
4/8/15 7:35	0.816	0.05	0.002
4/8/15 7:36	0.774	0.05	0.002
4/8/15 7:37	0.731	0.05	0.002
4/8/15 7:38	0.731	0.05	0.002
4/8/15 7:39	0.774	0.05	0.002
4/8/15 7:40	0.731	0.05	0.002
4/8/15 7:41	0.774	0.05	0.002
4/8/15 7:42	0.731	0.05	0.002
4/8/15 7:43	0.816	0.05	0.002
4/8/15 7:44	0.774	0.05	0.002
4/8/15 7:45	0.731	0.05	0.002
4/8/15 7:46	0.731	0.05	0.002
4/8/15 7:47	0.688	0.05	0.002
4/8/15 7:48	0.731	0.05	0.002
4/8/15 7:49	0.731	0.05	0.002
4/8/15 7:50	0.731	0.05	0.002
4/8/15 7:51	0.688	0.05	0.002
4/8/15 7:52	0.731	0.05	0.002
4/8/15 7:53	0.688	0.05	0.002
4/8/15 7:54	0.774	0.05	0.002
4/8/15 7:55	0.731	0.05	0.002
4/8/15 7:56	0.774	0.05	0.002
4/8/15 7:57	0.688	0.05	0.002
4/8/15 7:58	0.731	0.05	0.002
4/8/15 7:59	0.688	0.05	0.002
4/8/15 8:00	0.731	0.05	0.002
4/8/15 8:01	0.688	0.05	0.002
4/8/15 8:02	0.688	0.05	0.002
4/8/15 8:03	0.688	0.05	0.002
4/8/15 8:04	0.731	0.05	0.002
4/8/15 8:05	0.688	0.05	0.002
4/8/15 8:06	0.774	0.05	0.002
4/8/15 8:07	0.731	0.05	0.002
4/8/15 8:08	0.774	0.05	0.002
4/8/15 8:09	0.688	0.05	0.002
4/8/15 8:10	0.731	0.05	0.002
4/8/15 8:11	0.731	0.05	0.002
4/8/15 8:12	0.731	0.05	0.002
4/8/15 8:13	0.731	0.05	0.002
4/8/15 8:14	0.774	0.05	0.002
4/8/15 8:15	0.774	0.05	0.002
4/8/15 8:16	0.688	0.05	0.002
4/8/15 8:17	0.731	0.05	0.002

Date and Time	Level (inches)	Velocity (fps)	Flow (cfs)
4/8/15 8:18	0.774	0.05	0.002
4/8/15 8:19	0.731	0.05	0.002
4/8/15 8:20	0.731	0.05	0.002
4/8/15 8:21	0.816	0.05	0.002
4/8/15 8:22	0.731	0.05	0.002
4/8/15 8:23	0.816	0.05	0.002
4/8/15 8:24	0.731	0.05	0.002
4/8/15 8:25	0.774	0.05	0.002
4/8/15 8:26	0.731	0.05	0.002
4/8/15 8:27	0.688	0.05	0.002
4/8/15 8:28	0.731	0.05	0.002
4/8/15 8:29	0.731	0.05	0.002
4/8/15 8:30	0.816	0.05	0.002
4/8/15 8:31	0.731	0.05	0.002
4/8/15 8:32	0.731	0.05	0.002
4/8/15 8:33	0.731	0.05	0.002
4/8/15 8:34	0.816	0.05	0.002
4/8/15 8:35	0.646	0.05	0.002
4/8/15 8:36	0.774	0.05	0.002

APPENDIX G

IN-SITU WATER QUALITY DATA TABLES

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APPENDIX G.
SONDE DATA TABLES

Table G-1. Dry 1 DC Sonde Measurements

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
18-Feb-14 11:45	21.14	NS	6.50	0.6	25.08
18-Feb-14 12:00	21.27	NS	6.52	0.9	25.59
18-Feb-14 12:15	22.54	NS	6.78	1.0	25.44
18-Feb-14 12:30	22.68	NS	7.68	1.4	25.73
18-Feb-14 12:45	21.41	NS	7.40	0.9	26.76
18-Feb-14 13:00	21.52	NS	7.38	0.8	26.58
18-Feb-14 13:15	21.40	NS	7.20	0.9	26.61
18-Feb-14 13:30	21.37	NS	7.08	0.8	26.65
18-Feb-14 13:45	21.18	NS	7.15	0.7	25.98
18-Feb-14 14:00	21.08	NS	7.07	0.8	25.06
18-Feb-14 14:15	20.67	NS	7.06	0.7	25.28
18-Feb-14 14:30	20.11	NS	7.08	0.9	25.31
18-Feb-14 14:45	22.94	NS	9.54	1.2	22.82
18-Feb-14 15:00	19.29	NS	9.19	1.4	24.18
18-Feb-14 15:15	19.13	NS	9.17	1.0	22.67
18-Feb-14 15:30	18.79	NS	9.11	1.0	21.35
18-Feb-14 15:45	18.64	NS	8.89	2.4	19.99
18-Feb-14 16:00	18.42	NS	8.64	4.2	18.71
18-Feb-14 16:15	17.61	NS	8.48	1.0	17.81
18-Feb-14 16:30	17.39	NS	8.45	1.0	16.89
18-Feb-14 16:45	17.40	NS	8.47	0.9	15.91
18-Feb-14 17:00	17.22	NS	8.43	0.9	14.78
18-Feb-14 17:15	16.93	NS	8.26	0.9	13.54
18-Feb-14 17:30	16.87	NS	8.34	1.0	12.25
18-Feb-14 17:45	16.67	NS	8.26	0.7	10.93
18-Feb-14 18:00	16.55	NS	8.28	0.7	9.56
18-Feb-14 18:15	16.38	NS	8.27	0.7	8.41
18-Feb-14 18:30	16.04	NS	8.14	0.7	7.48
18-Feb-14 18:45	15.88	NS	8.13	0.6	6.52
18-Feb-14 19:00	15.81	NS	8.15	0.7	5.79
18-Feb-14 19:15	15.75	NS	8.20	0.8	5.27
18-Feb-14 19:30	15.72	NS	8.15	0.8	4.87
18-Feb-14 19:45	15.60	NS	8.13	0.7	4.66
18-Feb-14 20:00	15.43	NS	8.14	0.7	4.43
18-Feb-14 20:15	15.35	NS	8.10	0.7	4.24
18-Feb-14 20:30	15.22	NS	8.12	0.8	4.17
18-Feb-14 20:45	15.26	NS	8.16	0.8	3.95
18-Feb-14 21:00	15.10	NS	8.12	0.9	3.97
18-Feb-14 21:15	15.03	NS	8.12	1.0	3.94
18-Feb-14 21:30	15.09	NS	8.15	1.1	3.92
18-Feb-14 21:45	15.06	NS	8.14	1.7	3.86

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
18-Feb-14 22:00	14.99	NS	8.13	2.1	3.92
18-Feb-14 22:15	14.94	NS	8.14	1.7	3.91
18-Feb-14 22:30	14.84	NS	8.11	2.2	3.96
18-Feb-14 22:45	14.74	NS	8.12	1.5	3.94
18-Feb-14 23:00	14.82	NS	8.05	12.3	3.72
18-Feb-14 23:15	14.74	NS	7.77	5.1	4.05
18-Feb-14 23:30	14.73	NS	7.72	3.9	4.53
18-Feb-14 23:45	14.72	NS	7.74	3.1	4.78
19-Feb-14 0:00	14.68	NS	7.83	2.8	4.75
19-Feb-14 0:15	14.61	NS	7.98	3.0	4.71
19-Feb-140:30	14.50	NS	8.07	2.9	4.68
19-Feb-14 0:45	14.30	NS	8.05	6.1	4.65
19-Feb-14 1:00	13.73	NS	8.08	2.5	4.72
19-Feb-14 1:15	13.45	NS	8.13	3.8	4.71
19-Feb-14 1:30	13.78	NS	8.19	2.6	4.62
19-Feb-14 1:45	13.63	NS	8.18	3.3	4.60
19-Feb-14 2:00	13.58	NS	8.19	2.8	4.59
19-Feb-14 2:15	13.41	NS	8.20	2.8	4.60
19-Feb-14 2:30	13.33	NS	8.20	2.6	4.57
19-Feb-14 2:45	13.11	NS	8.19	1.8	4.58
19-Feb-14 3:00	13.43	NS	8.20	1.7	4.52
19-Feb-14 3:15	13.29	NS	8.18	1.4	4.52
19-Feb-14 3:30	13.15	NS	8.18	1.4	4.54
19-Feb-14 3:45	13.31	NS	8.20	1.7	4.52
19-Feb-14 4:00	13.45	NS	8.23	1.6	4.52
19-Feb-14 4:15	13.56	NS	8.24	1.6	4.52
19-Feb-14 4:30	13.80	NS	8.24	1.5	4.48
19-Feb-14 4:45	13.86	NS	8.24	1.8	4.47
19-Feb-14 5:00	13.73	NS	8.23	1.7	4.52
19-Feb-14 5:15	13.75	NS	8.23	1.7	4.51
19-Feb-14 5:30	13.91	NS	8.22	1.5	4.58
19-Feb-14 5:45	14.00	NS	8.22	1.2	4.56
19-Feb-14 6:00	13.80	NS	8.14	1.3	4.59
19-Feb-14 6:15	14.01	NS	8.11	1.2	4.56
19-Feb-14 6:30	13.90	NS	8.04	1.1	4.61
19-Feb-14 6:45	13.89	NS	8.04	1.1	4.68
19-Feb-14 7:00	13.88	NS	8.03	1.1	4.84
19-Feb-14 7:15	13.53	NS	7.97	1.1	5.20
19-Feb-14 7:30	13.69	NS	7.99	1.1	5.75
19-Feb-14 7:45	13.71	NS	7.96	1.1	6.74
19-Feb-14 8:00	13.78	NS	7.95	1.1	8.20
19-Feb-14 8:15	13.77	NS	7.90	1.0	9.45
19-Feb-14 8:30	14.13	NS	7.97	1.0	10.76
19-Feb-14 8:45	14.33	NS	7.93	1.2	12.84
19-Feb-14 9:00	14.42	NS	7.76	1.1	15.10

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
19-Feb-14 9:15	14.87	NS	7.85	1.3	16.44
19-Feb-14 9:30	15.48	NS	7.64	1.2	18.23
19-Feb-14 9:45	15.97	NS	7.54	1.2	20.80
19-Feb-14 10:00	17.16	NS	7.54	1.3	22.21
19-Feb-14 10:15	17.59	NS	7.44	1.8	23.34
19-Feb-14 10:30	18.32	NS	7.45	1.5	23.21
19-Feb-14 10:45	19.77	NS	7.33	1.4	22.59
19-Feb-14 11:00	19.76	NS	7.31	1.6	22.91
19-Feb-14 11:15	20.28	NS	7.25	1.4	22.46
19-Feb-14 11:30	22.11	NS	8.91	1.4	22.77
19-Feb-14 11:45	22.53	NS	8.97	1.4	22.68

Table G-2. Dry 1 LAR Sonde Measurements

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
2/18/2014 10:00	15.93	NS	6.36	20.7	21.23
2/18/2014 10:15	16.51	NS	6.33	20.3	22.23
2/18/2014 10:30	18.03	NS	6.24	22.8	22.48
2/18/2014 10:45	18.19	NS	6.16	24.5	23.07
2/18/2014 11:00	18.18	NS	6.20	28.9	24.66
2/18/2014 11:15	18.21	NS	6.16	33.5	25.54
2/18/2014 11:30	19.28	NS	6.14	39.0	25.19
2/18/2014 11:45	18.94	NS	6.14	33.2	25.45
2/18/2014 12:00	19.16	NS	6.17	31.5	26.04
2/18/2014 12:15	18.99	NS	6.16	27.0	25.26
2/18/2014 12:30	19.29	NS	6.20	76.2	25.10
2/18/2014 12:45	19.16	NS	6.16	34.6	25.64
2/18/2014 13:00	18.88	NS	6.20	39.7	25.46
2/18/2014 13:15	18.57	NS	6.18	32.3	25.96
2/18/2014 13:30	18.29	NS	6.21	33.4	26.26
2/18/2014 13:45	18.37	NS	6.18	51.6	26.10
2/18/2014 14:00	18.70	NS	6.18	28.8	25.81
2/18/2014 14:15	18.62	NS	6.18	31.8	25.84
2/18/2014 14:30	18.86	NS	6.19	39.2	25.22
2/18/2014 14:45	18.81	NS	6.12	172.4	25.50
2/18/2014 15:00	18.74	NS	6.11	33.5	24.51
2/18/2014 15:15	18.89	NS	6.16	31.5	23.34
2/18/2014 15:30	18.69	NS	6.14	30.5	22.14
2/18/2014 15:45	18.51	NS	6.17	30.2	21.06
2/18/2014 16:00	18.39	NS	6.17	29.7	20.15
2/18/2014 16:15	18.21	NS	6.19	30.0	19.19
2/18/2014 16:30	17.77	NS	6.18	30.7	18.21
2/18/2014 16:45	17.65	NS	6.20	30.7	17.49
2/18/2014 17:00	17.25	NS	6.22	30.5	16.64
2/18/2014 17:15	17.25	NS	6.24	30.6	15.15
2/18/2014 17:30	17.24	NS	6.23	30.2	13.66
2/18/2014 17:45	17.09	NS	6.22	30.3	12.36
2/18/2014 18:00	16.97	NS	6.23	30.2	11.09
2/18/2014 18:15	16.67	NS	6.22	31.3	10.06
2/18/2014 18:30	16.45	NS	6.25	29.2	9.23
2/18/2014 18:45	16.27	NS	6.25	30.2	8.60
2/18/2014 19:00	16.24	NS	6.28	29.2	7.99
2/18/2014 19:15	16.12	NS	6.27	29.2	7.58
2/18/2014 19:30	16.06	NS	6.26	29.8	7.17
2/18/2014 19:45	15.86	NS	6.26	41.5	6.82
2/18/2014 20:00	15.79	NS	6.26	29.6	6.56
2/18/2014 20:15	15.77	NS	6.28	29.2	6.33
2/18/2014 20:30	15.76	NS	6.29	28.9	6.11

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
2/18/2014 20:45	15.46	NS	6.28	28.6	6.02
2/18/2014 21:00	15.46	NS	6.29	28.8	5.86
2/18/2014 21:15	15.31	NS	6.29	28.4	5.81
2/18/2014 21:30	15.35	NS	6.31	28.0	5.74
2/18/2014 21:45	15.16	NS	6.29	27.7	5.67
2/18/2014 22:00	15.19	NS	6.30	27.7	5.63
2/18/2014 22:15	15.21	NS	6.30	27.8	5.52
2/18/2014 22:30	15.13	NS	6.31	27.5	5.53
2/18/2014 22:45	15.08	NS	6.32	27.9	5.51
2/18/2014 23:00	14.99	NS	6.31	28.0	5.51
2/18/2014 23:15	14.92	NS	6.33	28.0	5.54
2/18/2014 23:30	14.54	NS	6.31	27.9	5.65
2/18/2014 23:45	14.38	NS	6.34	28.0	5.59
2/19/2014 0:00	14.27	NS	6.39	27.8	5.58
2/19/2014 0:15	14.12	NS	6.37	27.6	5.67
2/19/2014 0:30	14.09	NS	6.38	27.3	5.63
2/19/2014 0:45	14.23	NS	6.39	27.4	5.60
2/19/2014 1:00	13.99	NS	6.38	27.5	5.65
2/19/2014 1:15	13.81	NS	6.39	27.1	5.70
2/19/2014 1:30	13.75	NS	6.38	26.9	5.76
2/19/2014 1:45	13.48	NS	6.39	27.0	5.84
2/19/2014 2:00	13.53	NS	6.40	25.7	5.86
2/19/2014 2:15	13.24	NS	6.40	25.4	5.93
2/19/2014 2:30	13.11	NS	6.42	25.2	6.00
2/19/2014 2:45	13.24	NS	6.43	25.3	5.97
2/19/2014 3:00	13.09	NS	6.41	24.5	6.03
2/19/2014 3:15	13.04	NS	6.41	24.5	6.09
2/19/2014 3:30	13.13	NS	6.50	24.6	6.08
2/19/2014 3:45	13.07	NS	6.48	25.0	6.16
2/19/2014 4:00	12.99	NS	6.48	25.5	6.26
2/19/2014 4:15	13.34	NS	6.42	24.1	6.21
2/19/2014 4:30	13.46	NS	6.44	26.3	6.22
2/19/2014 4:45	13.59	NS	6.41	24.9	6.27
2/19/2014 5:00	13.62	NS	6.43	25.5	6.32
2/19/2014 5:15	13.66	NS	6.41	24.9	6.33
2/19/2014 5:30	13.77	NS	6.42	28.1	6.33
2/19/2014 5:45	13.86	NS	6.39	29.2	6.32
2/19/2014 6:00	13.84	NS	6.40	27.2	6.23
2/19/2014 6:15	13.82	NS	6.40	26.1	6.24
2/19/2014 6:30	13.80	NS	6.42	25.6	6.25
2/19/2014 6:45	13.80	NS	6.40	25.3	6.30
2/19/2014 7:00	13.83	NS	6.42	23.0	6.53
2/19/2014 7:15	13.85	NS	6.40	21.5	6.77
2/19/2014 7:30	13.90	NS	6.43	19.8	7.17
2/19/2014 7:45	14.01	NS	6.42	21.3	7.94

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
2/19/2014 8:00	14.16	NS	6.41	20.9	8.65
2/19/2014 8:15	14.25	NS	6.41	19.8	9.50
2/19/2014 8:30	14.49	NS	6.37	20.6	10.39
2/19/2014 8:45	14.64	NS	6.35	20.0	11.65
2/19/2014 9:00	14.75	NS	6.32	19.8	13.11
2/19/2014 9:15	14.95	NS	6.33	19.9	14.60

Table G-3. Storm 1 DC Sonde Measurements

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
2/27/2014 1:15	16.04	391	7.27	82.8	8.27
2/27/2014 1:30	16.33	287	7.20	106.9	8.62
2/27/2014 1:45	16.86	410	7.17	176.6	8.41
2/27/2014 2:00	16.39	99	7.07	76.2	9.74
2/27/2014 2:15	16.47	152	6.98	112.4	9.34
2/27/2014 2:30	16.30	110	6.98	182.4	9.54
2/27/2014 2:45	16.16	87	6.96	89.4	9.69
2/27/2014 3:00	16.17	77	6.99	65.1	9.71
2/27/2014 3:15	16.18	67	6.90	47.7	9.77
2/27/2014 3:30	16.21	64	6.87	36.3	9.76
2/27/2014 3:45	16.19	63	6.86	36.6	9.77
2/27/2014 4:00	16.19	64	6.89	36.9	9.77
2/27/2014 4:15	16.23	63	6.88	33.1	9.74
2/27/2014 4:30	16.19	61	6.84	28.5	9.75
2/27/2014 4:45	16.19	63	6.86	23.6	9.72
2/27/2014 5:00	16.16	64	6.88	21.9	9.72
2/27/2014 5:15	16.14	65	6.86	19.9	9.71
2/27/2014 5:30	16.12	70	6.87	16.3	9.71
2/27/2014 5:45	16.10	70	6.90	15.9	9.70
2/27/2014 6:00	16.09	72	6.92	13.9	9.70
2/27/2014 6:15	16.06	76	6.92	12.9	9.70
2/27/2014 6:30	16.10	80	6.96	13.6	9.68
2/27/2014 6:45	16.09	80	6.97	13.9	9.69
2/27/2014 7:00	16.09	82	6.99	13.1	9.65
2/27/2014 7:15	16.08	82	7.00	14.0	9.63
2/27/2014 7:30	16.10	86	7.02	14.4	9.59
2/27/2014 7:45	16.12	89	7.05	17.2	9.56
2/27/2014 8:00	16.16	88	7.07	18.7	9.58
2/27/2014 8:15	16.23	95	7.12	17.2	9.63
2/27/2014 8:30	16.30	98	7.14	17.7	9.67
2/27/2014 8:45	16.40	106	7.20	17.8	9.77
2/27/2014 9:00	16.48	110	7.26	17.3	9.86
2/27/2014 9:15	16.61	112	7.31	16.1	9.95
2/27/2014 9:30	16.87	119	7.38	14.7	10.06
2/27/2014 9:45	17.18	125	7.47	15.0	10.16
2/27/2014 10:00	17.66	132	7.57	14.5	10.29
2/27/2014 10:15	18.11	137	7.71	15.8	10.39
2/27/2014 10:30	18.58	145	7.82	15.5	10.47
2/27/2014 10:45	18.89	157	7.91	15.6	10.53
2/27/2014 11:00	19.79	171	8.10	15.1	10.69
2/27/2014 11:15	19.99	181	8.18	14.9	10.76
2/27/2014 11:30	20.14	194	8.25	14.7	10.78
2/27/2014 11:45	20.54	195	8.36	13.8	10.87

Date and Time	Temperature ^{o}C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
2/27/2014 12:00	21.32	226	8.42	13.3	11.00

Table G-4. Storm 1 LAR Sonde Measurements

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
2/27/2014 3:30	15.82	535	8.48	64.4	5.52
2/27/2014 3:45	15.76	470	8.45	215.7	6.39
2/27/2014 4:00	15.69	816	8.37	139.5	6.87
2/27/2014 4:15	15.68	816	8.22	899.9	6.83
2/27/2014 4:30	15.60	534	7.50	279.6	5.43
2/27/2014 4:45	16.33	212	7.12	224.0	6.62
2/27/2014 5:00	16.30	209	7.18	177.5	5.31
2/27/2014 5:15	16.17	184	7.11	121.3	6.26
2/27/2014 5:30	15.90	149	7.09	134.4	8.18
2/27/2014 5:45	15.75	234	7.10	210.2	7.90
2/27/2014 6:00	15.69	209	7.06	235.5	8.12
2/27/2014 6:15	15.68	213	7.04	730.4	8.18
2/27/2014 6:30	15.67	213	7.05	269.5	8.29
2/27/2014 6:45	15.72	252	7.06	585.3	8.19
2/27/2014 7:00	15.75	271	7.09	170.0	7.57
2/27/2014 7:15	15.74	277	7.12	197.7	7.33
2/27/2014 7:30	15.71	276	7.11	172.9	7.17
2/27/2014 7:45	15.79	342	7.10	178.7	7.15
2/27/2014 8:00	16.01	417	7.13	196.0	7.06
2/27/2014 8:15	16.18	431	7.08	231.5	5.81
2/27/2014 8:30	16.23	417	7.00	204.2	6.93
2/27/2014 8:45	16.33	409	6.95	234.0	6.61
2/27/2014 9:00	16.32	413	6.93	227.9	5.73
2/27/2014 9:15	16.34	436	6.95	216.1	5.18
2/27/2014 9:30	16.50	490	7.00	207.2	6.83
2/27/2014 9:45	16.52	455	7.00	183.9	5.49
2/27/2014 10:00	16.63	422	7.00	180.6	5.92
2/27/2014 10:15	16.69	358	7.01	168.5	6.62
2/27/2014 10:30	16.87	301	7.01	161.0	6.24
2/27/2014 10:45	16.94	263	7.01	182.3	4.96
2/27/2014 11:00	16.97	240	7.02	260.8	4.55
2/27/2014 11:15	17.14	229	7.03	243.5	3.52
2/27/2014 11:30	17.34	225	7.05	242.5	3.68
2/27/2014 11:45	17.63	227	7.05	260.4	4.08
2/27/2014 12:00	18.06	236	7.07	249.5	2.05
2/27/2014 12:15	18.17	249	7.07	309.8	1.16
2/27/2014 12:30	18.58	265	7.10	367.1	0.28
2/27/2014 12:45	18.79	280	7.10	351.2	2.32
2/27/2014 13:00	18.74	288	7.08	387.3	1.88
2/27/2014 13:15	18.85	289	7.06	367.4	1.58
2/27/2014 13:30	18.94	291	7.06	419.5	2.25
2/27/2014 13:45	19.21	280	7.07	449.3	2.67
2/27/2014 14:00	19.45	268	7.10	378.6	2.95

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
2/27/2014 14:15	19.68	259	7.10	349.1	2.95
2/27/2014 14:30	19.96	250	7.15	527.2	1.94
2/27/2014 14:45	20.01	247	7.16	402.1	1.56
2/27/2014 15:00	20.03	247	7.13	385.1	1.56
2/27/2014 15:15	20.15	247	7.15	335.2	1.28
2/27/2014 15:30	20.23	250	7.13	303.0	1.07
2/27/2014 15:45	20.32	255	7.13	344.9	1.25
2/27/2014 16:00	20.45	261	7.11	388.6	1.01
2/27/2014 16:15	20.42	266	7.09	349.4	0.72
2/27/2014 16:30	20.38	268	7.07	383.2	0.63
2/27/2014 16:45	20.27	276	7.06	343.7	0.18
2/27/2014 17:00	20.16	272	7.07	417.4	0.32
2/27/2014 17:15	20.00	274	7.06	355.4	0.10
2/27/2014 17:30	19.85	275	7.06	348.5	0.22
2/27/2014 17:45	19.64	275	7.06	371.5	0.29
2/27/2014 18:00	19.45	278	7.04	367.1	0.43
2/27/2014 18:15	19.27	280	7.04	291.0	0.00
2/27/2014 18:30	19.06	276	7.03	332.7	0.25
2/27/2014 18:45	18.91	277	7.02	350.5	0.55
2/27/2014 19:00	18.74	275	7.02	330.0	0.13
2/27/2014 19:15	18.61	273	7.02	327.4	0.00
2/27/2014 19:30	18.44	278	7.00	395.8	0.08
2/27/2014 19:45	18.29	280	7.00	363.2	0.28
2/27/2014 20:00	18.14	278	7.01	310.0	0.00
2/27/2014 20:15	18.02	281	7.02	404.6	0.00
2/27/2014 20:30	17.92	284	7.03	331.1	0.00
2/27/2014 20:45	17.78	285	7.05	376.1	0.00
2/27/2014 21:00	17.68	289	7.06	341.7	0.00
2/27/2014 21:15	17.55	293	7.05	364.0	0.29
2/27/2014 21:30	17.46	298	7.05	299.9	0.29
2/27/2014 21:45	17.36	303	7.06	380.0	4.37
2/27/2014 22:00	17.27	309	7.04	429.9	5.14
2/27/2014 22:15	17.20	315	7.04	352.9	4.70
2/27/2014 22:30	17.13	322	7.04	290.4	4.57
2/27/2014 22:45	17.05	329	7.03	364.3	4.07
2/27/2014 23:00	16.99	335	7.03	257.6	3.72
2/27/2014 23:15	16.93	342	7.03	369.2	3.19
2/27/2014 23:30	16.87	347	7.03	416.1	0.99
2/27/2014 23:45	16.82	353	7.02	287.7	2.94

Table G-5. Storm 2 DC Sonde Measurements

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 2:00	16.5		8.4	53.2	2.25
12/12/14 2:05	16.6		8.35	116.5	2.2
12/12/14 2:10	16.5		8.42	127.1	2.16
12/12/14 2:15	16.4		8.29	200	2.14
12/12/14 2:20	16.4		8.32	212.4	2.13
12/12/14 2:25	16.3		8.24	540.4	2.16
12/12/14 2:30	16.3		8.27	72	2.18
12/12/14 2:35	16.2		8.3	62.6	2.19
12/12/14 2:40	16.2		8.31	52	2.18
12/12/14 2:45	16.2		8.29	53.4	2.18
12/12/14 2:50	16.2		8.28	106.6	2.16
12/12/14 2:55	16.6	788	8.45	49.2	0
12/12/14 3:00	16.3	758	8.35	133.1	
12/12/14 3:05	17.2	682	8.27	418.7	
12/12/14 3:10	17.4	605	8.16	200.6	
12/12/14 3:15	17.3	614	8.06	110.1	
12/12/14 3:20	17.0	550	8.05	86	
12/12/14 3:25	16.5	518	8.1	82	
12/12/14 3:30	15.8	322	8.15	171.3	
12/12/14 3:35	15.5	242	8.06	188.7	
12/12/14 3:40	15.1	160	7.99	144.4	
12/12/14 3:45	14.9	134	7.9	101.6	
12/12/14 3:50	14.9	94	7.9	121.6	
12/12/14 3:55	14.5	70	7.92	96.2	
12/12/14 4:00	14.4	64	7.79	88.9	
12/12/14 4:05	14.5	83	7.8	93.3	
12/12/14 4:10	14.6	85	7.83	85.7	
12/12/14 4:15	14.3	61	7.81	103.6	
12/12/14 4:20	14.3	64	7.75	91.2	
12/12/14 4:25	14.4	70	7.79	120	
12/12/14 4:30	14.3	64	7.89	129.3	
12/12/14 4:35	14.3	64	7.89	121.2	
12/12/14 4:40	14.3	62	7.87	105.7	
12/12/14 4:45	14.3	62	7.81	104.9	
12/12/14 4:50	14.3	64	7.81	106.7	
12/12/14 4:55	14.3	65	7.78	110.2	
12/12/14 5:00	14.3	66	7.77	98.8	
12/12/14 5:05	14.3	66	7.77	90.7	
12/12/14 5:10	14.3	66	7.74	91.7	
12/12/14 5:15	14.3	67	7.71	89.1	
12/12/14 5:20	14.3	68	7.7	80.8	
12/12/14 5:25	14.4	69	7.68	75.5	
12/12/14 5:30	14.4	70	7.67	65.3	

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 5:35	14.4	72	7.63	63.2	
12/12/14 5:40	14.4	73	7.61	58.6	
12/12/14 5:45	14.4	73	7.61	59.2	
12/12/14 5:50	14.4	74	7.59	54.5	
12/12/14 5:55	14.4	74	7.59	50.1	
12/12/14 6:00	14.4	74	7.58	45.2	
12/12/14 6:05	14.5	75	7.57	50.9	
12/12/14 6:10	14.5	75	7.57	46.8	
12/12/14 6:15	14.5	75	7.56	44.3	
12/12/14 6:20	14.5	76	7.56	40.8	
12/12/14 6:25	14.5	76	7.54	39.1	
12/12/14 6:30	14.5	75	7.55	35.9	
12/12/14 6:35	14.5	75	7.52	38.5	
12/12/14 6:40	14.5	74	7.5	36.8	
12/12/14 6:45	14.5	73	7.51	35.7	
12/12/14 6:50	14.5	73	7.52	34.9	
12/12/14 6:55	14.5	73	7.51	32.2	
12/12/14 7:00	14.5	74	7.49	32.4	
12/12/14 7:05	14.5	74	7.5	31.2	
12/12/14 7:10	14.5	74	7.49	33.1	
12/12/14 7:15	14.5	74	7.49	32.1	
12/12/14 7:20	14.5	73	7.49	32.3	
12/12/14 7:25	14.5	72	7.48	33	
12/12/14 7:30	14.5	71	7.49	31.4	
12/12/14 7:35	14.5	71	7.47	32.6	
12/12/14 7:40	14.5	71	7.49	31.6	
12/12/14 7:45	14.5	71	7.51	34.6	
12/12/14 7:50	14.5	71	7.51	31.8	
12/12/14 7:55	14.5	71	7.5	34.3	
12/12/14 8:00	14.5	71	7.48	35.2	
12/12/14 8:05	14.5	70	7.48	32.7	
12/12/14 8:10	14.4	70	7.47	33.3	
12/12/14 8:15	14.4	70	7.47	33.5	
12/12/14 8:20	14.4	69	7.47	34.1	
12/12/14 8:25	14.4	70	7.47	31	
12/12/14 8:30	14.5	71	7.47	35.8	
12/12/14 8:35	14.5	72	7.46	35	
12/12/14 8:40	14.5	73	7.46	38.3	
12/12/14 8:45	14.5	74	7.46	36.6	
12/12/14 8:50	14.5	75	7.47	36.8	
12/12/14 8:55	14.5	76	7.48	39.3	
12/12/14 9:00	14.5	76	7.48	35.9	
12/12/14 9:05	14.5	77	7.48	36.4	
12/12/14 9:10	14.6	79	7.48	37.7	
12/12/14 9:15	14.6	79	7.48	35.9	

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 9:20	14.6	80	7.49	36.9	
12/12/14 9:25	14.6	81	7.49	38.8	
12/12/14 9:30	14.6	82	7.5	36.9	
12/12/14 9:35	14.6	83	7.51	36	
12/12/14 9:40	14.7	84	7.5	36.9	
12/12/14 9:45	14.7	85	7.5	42.4	
12/12/14 9:50	14.7	85	7.51	40.7	
12/12/14 9:55	14.7	84	7.51	38	
12/12/14 10:00	14.8	85	7.5	41.4	
12/12/14 10:05	14.9	92	7.51	57.1	
12/12/14 10:10	14.9	90	7.54	68.1	
12/12/14 10:15	14.9	78	7.56	77.6	
12/12/14 10:20	14.9	73	7.55	70.5	
12/12/14 10:25	14.9	70	7.54	69.7	
12/12/14 10:30	14.9	68	7.54	69.7	
12/12/14 10:35	14.9	68	7.53	70.5	
12/12/14 10:40	14.9	70	7.52	68.6	
12/12/14 10:45	15.0	77	7.51	61.3	
12/12/14 10:50	15.1	84	7.52	62	
12/12/14 10:55	15.2	88	7.53	68.1	
12/12/14 11:00	15.3	89	7.55	60.4	
12/12/14 11:05	15.3	90	7.56	68.9	
12/12/14 11:10	15.4	91	7.58	70.9	
12/12/14 11:15	15.5	91	7.6	86.3	
12/12/14 11:20	15.6	91	7.62	99.4	
12/12/14 11:25	15.6	90	7.63	83.8	
12/12/14 11:30	15.7	89	7.63	91.6	
12/12/14 11:35	15.8	90	7.64	77.9	
12/12/14 11:40	15.8	91	7.63	77.3	
12/12/14 11:45	15.9	92	7.63	74	
12/12/14 11:50	16.1	94	7.62	73.1	
12/12/14 11:55	16.1	97	7.63	68.1	
12/12/14 12:00	16.1	102	7.62	67.6	
12/12/14 12:05	16.2	106	7.64	70.3	
12/12/14 12:10	16.3	110	7.66	69.3	
12/12/14 12:15	16.3	111	7.67	67.3	
12/12/14 12:20	16.4	114	7.67	65.6	
12/12/14 12:25	16.5	116	7.69	66.8	
12/12/14 12:30	16.6	117	7.71	66.5	
12/12/14 12:35	16.7	118	7.72	66.5	
12/12/14 12:40	16.7	120	7.73	64.1	
12/12/14 12:45	16.8	121	7.75	66.5	
12/12/14 12:50	16.9	123	7.75	63.9	
12/12/14 12:55	17.0	126	7.76	62.5	
12/12/14 13:00	17.1	130	7.78	61.4	

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 13:05	17.1	133	7.79	61.8	
12/12/14 13:10	17.2	137	7.81	62	
12/12/14 13:15	17.3	141	7.83	59.7	
12/12/14 13:20	17.3	142	7.85	61.6	
12/12/14 13:25	17.5	145	7.88	61.4	
12/12/14 13:30	17.6	148	7.91	61.2	
12/12/14 13:35	17.7	150	7.93	59.6	
12/12/14 13:40	17.7	151	7.93	58.7	
12/12/14 13:45	17.7	152	7.93	60.1	
12/12/14 13:50	17.8	155	7.95	61.2	
12/12/14 13:55	17.8	157	7.96	62	
12/12/14 14:00	17.9	159	7.97	61	
12/12/14 14:05	18.0	160	8	62.9	
12/12/14 14:10	18.1	161	8.03	59.9	
12/12/14 14:15	18.1	165	8.05	59.6	
12/12/14 14:20	18.1	168	8.07	57.9	
12/12/14 14:25	18.1	169	8.08	64.2	
12/12/14 14:30	18.1	170	8.09	58.5	
12/12/14 14:35	18.1	171	8.11	59.5	
12/12/14 14:40	18.1	178	8.12	63.4	
12/12/14 14:45	18.1	181	8.13	59.3	
12/12/14 14:50	18.1	184	8.14	60.3	
12/12/14 14:55	18.1	187	8.17	58.1	
12/12/14 15:00	18.0	190	8.19	57.3	
12/12/14 15:05	18.0	192	8.22	57	
12/12/14 15:10	17.9	193	8.24	58	
12/12/14 15:15	17.9	195	8.25	54.8	
12/12/14 15:20	17.8	198	8.27	54.6	
12/12/14 15:25	17.8	200	8.27	52.6	
12/12/14 15:30	17.8	203	8.28	55.6	
12/12/14 15:35	17.7	204	8.3	54.2	
12/12/14 15:40	17.6	207	8.28	55.1	
12/12/14 15:45	17.6	208	8.29	52.1	
12/12/14 15:50	17.6	209	8.3	52	
12/12/14 15:55	17.5	211	8.31	54.8	
12/12/14 16:00	17.5	212	8.32	56	
12/12/14 16:05	17.3	217	8.32	57.4	
12/12/14 16:10	17.3	220	8.32	57.9	
12/12/14 16:15	17.3	223	8.33	56.2	
12/12/14 16:20	17.2	223	8.34	54.5	
12/12/14 16:25	17.1	228	8.34	54.6	
12/12/14 16:30	17.1	231	8.34	57	
12/12/14 16:35	17.0	233	8.34	55.8	
12/12/14 16:40	16.9	236	8.34	52.7	
12/12/14 16:45	16.9	239	8.31	56	

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 16:50	16.8	246	8.31	62.2	
12/12/14 16:55	16.8	253	8.31	58.3	
12/12/14 17:00	16.7	255	8.3	60.8	
12/12/14 17:05	16.7	257	8.3	58.4	
12/12/14 17:10	16.6	260	8.29	57	
12/12/14 17:15	16.6	265	8.28	58.1	
12/12/14 17:20	16.5	272	8.27	57.9	
12/12/14 17:25	16.4	276	8.25	58.2	
12/12/14 17:30	16.4	277	8.24	59.3	
12/12/14 17:35	16.4	278	8.23	58.4	
12/12/14 17:40	16.3	281	8.21	55.6	
12/12/14 17:45	16.1	290	8.2	52.7	
12/12/14 17:50	16.1	294	8.19	52.2	
12/12/14 17:55	16.0	296	8.17	53.9	
12/12/14 18:00	16.0	297	8.16	52.3	

amec foster wheeler

Table G-6. Storm 2 LAR Sonde Measurements

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 2:00	16.0		7.02		9.8
12/12/14 2:05	16.0		7.01		9.79
12/12/14 2:10	16.1		7.01		9.77
12/12/14 2:15	16.2		7.01		9.74
12/12/14 2:20	16.3		7.01		9.73
12/12/14 2:25	16.3		7.02		9.72
12/12/14 2:30	16.3		7.02		9.72
12/12/14 2:35	16.3		7.02		9.72
12/12/14 2:40	16.2		7.03		9.73
12/12/14 2:45	16.2		7.03		9.73
12/12/14 2:50	16.1		7.02		9.73
12/12/14 2:55	16.1		7.02		9.74
12/12/14 3:00	16.1		7.02		9.74
12/12/14 3:05	16.1		7.02		9.74
12/12/14 3:10	16.1		7.02		9.73
12/12/14 3:15	16.1		7.02		9.73
12/12/14 3:20	16.1		7.03		9.72
12/12/14 3:25	16.1		7.04		9.72
12/12/14 3:30	16.0		7.05		9.72
12/12/14 3:35	15.9		7.07		9.74
12/12/14 3:40	15.5		7.07	1.4	9.83
12/12/14 3:45	14.6		7.11	3.6	10.01
12/12/14 3:50	14.2		7.19	6.5	10.09
12/12/14 3:55	14.2		7.16	8.6	10.09
12/12/14 4:00	14.1		7.18	26.8	10.09
12/12/14 4:05	14.0		7.17	35.2	10.13
12/12/14 4:10	13.9		7.18	32.8	10.14
12/12/14 4:15	13.9		7.18	38.5	10.15
12/12/14 4:20	13.8		7.22	32.9	10.18
12/12/14 4:25	13.7		7.2	21.1	10.2
12/12/14 4:30	13.7		7.21	20.3	10.2
12/12/14 4:35	13.5		7.22	17.2	10.23
12/12/14 4:40	13.4		7.2	13.5	10.26
12/12/14 4:45	13.4		7.22	11.2	10.25
12/12/14 4:50	13.4		7.25	9.7	10.26
12/12/14 4:55	13.4		7.27	9.3	10.27
12/12/14 5:00	13.3		7.26	9.4	10.27
12/12/14 5:05	13.3		7.3	9.5	10.29
12/12/14 5:10	13.2		7.28	10.2	10.29
12/12/14 5:15	13.2		7.32	14.1	10.31
12/12/14 5:20	14.4		7.44	404.4	7.67
12/12/14 5:25	14.1	209	7.43	546.7	8.25

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 5:30	14.0	146	7.54	440.9	8.71
12/12/14 5:35	14.1	124	7.66	374.6	9.12
12/12/14 5:40	14.2	108	7.78	317.1	9.63
12/12/14 5:45	14.1	206	7.71	204.7	10.22
12/12/14 5:50	14.2	169	7.75	155.3	10.43
12/12/14 5:55	14.1	131	7.74	129	10.48
12/12/14 6:00	14.0	110	7.73	101.3	10.64
12/12/14 6:05	13.9	176	7.64	101	10.63
12/12/14 6:10	13.9	173	7.69	153.4	10.69
12/12/14 6:15	13.8	183	7.68	148.7	10.66
12/12/14 6:20	13.9	179	7.7	135.5	10.64
12/12/14 6:25	13.8	155	7.73	144.1	10.62
12/12/14 6:30	13.8	135	7.77	171.4	10.67
12/12/14 6:35	13.8	130	7.79	159.9	10.65
12/12/14 6:40	13.8	123	7.8	182.4	10.62
12/12/14 6:45	13.7	124	7.87	226.3	10.68
12/12/14 6:50	13.7	146	7.98	325.5	10.63
12/12/14 6:55	13.8	217	7.92	282.5	10.59
12/12/14 7:00	14.2	376	7.77	251.7	10.49
12/12/14 7:05	14.4	438	7.73	220.9	10.42
12/12/14 7:10	14.4	377	7.7	236.7	10.46
12/12/14 7:15	14.3	353	7.66	211.1	10.45
12/12/14 7:20	14.4	313	7.63	178.3	10.43
12/12/14 7:25	14.3	267	7.6	212.7	10.35
12/12/14 7:30	14.3	257	7.6	219.5	10.35
12/12/14 7:35	14.2	243	7.6	247.6	10.35
12/12/14 7:40	14.1	228	7.6	249.6	10.25
12/12/14 7:45	14.1	218	7.61	247.8	10.34
12/12/14 7:50	14.0	214	7.61	263.1	10.34
12/12/14 7:55	14.0	211	7.61	245.1	10.37
12/12/14 8:00	13.9	205	7.62	229.8	10.46
12/12/14 8:05	13.9	186	7.65	243.1	10.5
12/12/14 8:10	13.8	170	7.68	246.3	10.65
12/12/14 8:15	13.8	160	7.69	242.7	10.61
12/12/14 8:20	13.8	154	7.71	225.4	10.61
12/12/14 8:25	13.8	152	7.71	191.7	10.59
12/12/14 8:30	13.8	153	7.69	203.5	10.6
12/12/14 8:35	13.8	153	7.69	204.2	10.52
12/12/14 8:40	13.8	154	7.7	201.7	10.46
12/12/14 8:45	13.8	152	7.71	211.5	10.47
12/12/14 8:50	13.8	148	7.72	206.4	10.46
12/12/14 8:55	13.8	145	7.74	190.8	10.49
12/12/14 9:00	13.7	139	7.75	191.2	10.57
12/12/14 9:05	13.7	132	7.77	189.4	10.54

Date and Time	Temperature ^{o}C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 9:10	13.7	123	7.79	179.2	10.52
12/12/14 9:15	13.6	117	7.81	175.9	10.48
12/12/14 9:20	13.6	112	7.82	186	10.46
12/12/14 9:25	13.6	108	7.83	176.2	10.47
12/12/14 9:30	13.5	106	7.85	175.2	10.48
12/12/14 9:35	13.5	103	7.86	170.8	10.55
12/12/14 9:40	13.5	101	7.85	165.6	10.54
12/12/14 9:45	13.5	99	7.84	159.6	10.55
12/12/14 9:50	13.4	97	7.84	153.1	10.56
12/12/14 9:55	13.4	97	7.82	140	10.52
12/12/14 10:00	13.4	97	7.8	142.5	10.5
12/12/14 10:05	13.4	96	7.8	140.9	10.49
12/12/14 10:10	13.3	97	7.78	138.4	10.46
12/12/14 10:15	13.3	98	7.77	142.5	10.47
12/12/14 10:20	13.3	99	7.76	150.6	10.47
12/12/14 10:25	13.3	101	7.74	155.7	10.47
12/12/14 10:30	13.3	103	7.73	180.1	10.49
12/12/14 10:35	13.3	105	7.72	181.7	10.5
12/12/14 10:40	13.3	108	7.72	176.9	10.51
12/12/14 10:45	13.2	111	7.71	191.1	10.53
12/12/14 10:50	13.2	113	7.7	205.2	10.53
12/12/14 10:55	13.2	116	7.7	206.6	10.55
12/12/14 11:00	13.2	119	7.69	225.3	10.53
12/12/14 11:05	13.2	121	7.69	241.3	10.59
12/12/14 11:10	13.2	123	7.69	221.6	10.6
12/12/14 11:15	13.2	123	7.67	226.5	10.6
12/12/14 11:20	13.2	122	7.66	223.3	10.62
12/12/14 11:25	13.3	121	7.66	210.9	10.61
12/12/14 11:30	13.3	119	7.65	214.9	10.64
12/12/14 11:35	13.3	115	7.66	211.7	10.65
12/12/14 11:40	13.3	114	7.65	186.6	10.65
12/12/14 11:45	13.4	112	7.65	182.5	10.64
12/12/14 11:50	13.4	110	7.66	193	10.57
12/12/14 11:55	13.3	109	7.66	173.4	10.6
12/12/14 12:00	13.3	109	7.65	173.3	10.6
12/12/14 12:05	13.3	110	7.66	164	10.61
12/12/14 12:10	13.3	111	7.66	167.2	10.64
12/12/14 12:15	13.3	113	7.69	177.7	10.61
12/12/14 12:20	13.3	114	7.71	162.1	10.59
12/12/14 12:25	13.3	116	7.7	157.4	10.51
12/12/14 12:30	13.3	117	7.68	167.1	10.51
12/12/14 12:35	13.3	119	7.66	167.7	10.49
12/12/14 12:40	13.4	121	7.66	160	10.52
12/12/14 12:45	13.4	124	7.66	163.5	10.52

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 12:50	13.4	132	7.65	165	10.52
12/12/14 12:55	13.4	135	7.65	166.8	10.62
12/12/14 13:00	13.4	138	7.66	179.8	10.7
12/12/14 13:05	13.4	141	7.68	190.4	10.65
12/12/14 13:10	13.4	143	7.7	195.6	10.6
12/12/14 13:15	13.4	144	7.72	192.2	10.59
12/12/14 13:20	13.4	145	7.74	208.3	10.61
12/12/14 13:25	13.4	144	7.76	215	10.59
12/12/14 13:30	13.4	144	7.78	218.3	10.54
12/12/14 13:35	13.5	144	7.79	200.8	10.58
12/12/14 13:40	13.6	144	7.81	205.2	10.55
12/12/14 13:45	13.6	143	7.82	220.5	10.52
12/12/14 13:50	13.6	140	7.83	211.6	10.51
12/12/14 13:55	13.6	136	7.84	219.1	10.5
12/12/14 14:00	13.6	135	7.85	242.6	10.54
12/12/14 14:05	13.7	133	7.85	216.1	10.48
12/12/14 14:10	13.7	132	7.86	208	10.49
12/12/14 14:15	13.8	131	7.85	216.3	10.44
12/12/14 14:20	13.8	131	7.85	207.7	10.41
12/12/14 14:25	13.8	130	7.84	207.9	10.39
12/12/14 14:30	13.8	131	7.84	201.7	10.39
12/12/14 14:35	13.7	132	7.83	201.9	10.37
12/12/14 14:40	13.7	133	7.83	207.4	10.34
12/12/14 14:45	13.7	134	7.82	206.6	10.33
12/12/14 14:50	13.8	136	7.81	215.2	10.31
12/12/14 14:55	13.8	137	7.8	206.4	10.31
12/12/14 15:00	13.8	139	7.8	208.3	10.3
12/12/14 15:05	13.8	141	7.79	204.4	10.28
12/12/14 15:10	13.8	143	7.79	220.4	10.27
12/12/14 15:15	13.8	145	7.78	223.9	10.27
12/12/14 15:20	13.9	147	7.77	220.8	10.24
12/12/14 15:25	13.9	148	7.76	223.5	10.22
12/12/14 15:30	13.9	150	7.76	224.1	10.21
12/12/14 15:35	13.9	151	7.76	227.8	10.19
12/12/14 15:40	13.9	153	7.76	229.3	10.17
12/12/14 15:45	14.0	154	7.75	224.3	10.16
12/12/14 15:50	14.0	155	7.75	234	10.14
12/12/14 15:55	14.0	157	7.75	230.7	10.13
12/12/14 16:00	14.0	159	7.74	234	10.11
12/12/14 16:05	14.1	161	7.74	235.2	10.1
12/12/14 16:10	14.1	162	7.74	247.3	10.1
12/12/14 16:15	14.1	164	7.73	249.1	10.08
12/12/14 16:20	14.1	166	7.72	260.6	10.06
12/12/14 16:25	14.1	167	7.71	247.9	10.05

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 16:30	14.1	169	7.7	278.4	10.04
12/12/14 16:35	14.1	170	7.69	323.2	10.02
12/12/14 16:40	14.1	172	7.69	322	10.01
12/12/14 16:45	14.1	173	7.68	283.5	9.99
12/12/14 16:50	14.1	174	7.68	314	9.97
12/12/14 16:55	14.1	174	7.67	306.2	9.95
12/12/14 17:00	14.0	175	7.66	303.6	9.91
12/12/14 17:05	14.0	176	7.65	303.9	9.92
12/12/14 17:10	14.0	178	7.65	629.3	9.91
12/12/14 17:15	14.0	180	7.65	312.5	9.96
12/12/14 17:20	13.9	181	7.65	307	9.97
12/12/14 17:25	13.9	182	7.65	285.8	9.94
12/12/14 17:30	13.9	183	7.65	316.2	9.94
12/12/14 17:35	13.9	183	7.65	319.5	9.94
12/12/14 17:40	13.9	184	7.65	285.8	9.93
12/12/14 17:45	13.9	184	7.65	274.2	9.86
12/12/14 17:50	13.9	183	7.63	274.5	9.66
12/12/14 17:55	13.9	183	7.63	275.1	9.82
12/12/14 18:00	13.8	184	7.63	263.3	9.83
12/12/14 18:05	13.8	187	7.62	252.1	9.88
12/12/14 18:10	13.8	191	7.62	294.6	9.9
12/12/14 18:15	13.8	190	7.63	264.1	9.84
12/12/14 18:20	13.8	194	7.64	273.2	9.84
12/12/14 18:25	13.8	196	7.64	270.5	9.88
12/12/14 18:30	13.8	197	7.63	271.4	9.88
12/12/14 18:35	13.7	198	7.64	260.2	9.88
12/12/14 18:40	13.7	199	7.64	276.9	9.88
12/12/14 18:45	13.7	199	7.64	269.1	9.87
12/12/14 18:50	13.7	213	7.65	288.4	9.89
12/12/14 18:55	13.7	202	7.65	266.6	9.87
12/12/14 19:00	13.7	202	7.65	266.1	9.85
12/12/14 19:05	13.7	202	7.65	261.6	9.85
12/12/14 19:10	13.7	205	7.65	249.7	9.86
12/12/14 19:15	13.7	210	7.65	254.2	9.87
12/12/14 19:20	13.7	207	7.66	255.4	9.86
12/12/14 19:25	13.7	208	7.66	264.2	9.86
12/12/14 19:30	13.6	222	7.66	257.6	9.87
12/12/14 19:35	13.6	230	7.67	256.6	9.87
12/12/14 19:40	13.6	245	7.67	260.4	9.88
12/12/14 19:45	13.6	243	7.68	269.6	9.87
12/12/14 19:50	13.6	239	7.68	262.8	9.86
12/12/14 19:55	13.6	249	7.68	291.6	9.87
12/12/14 20:00	13.6	242	7.68	253.1	9.87
12/12/14 20:05	13.6	253	7.68	284.4	9.86

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 20:10	13.6	257	7.68	276.3	9.87
12/12/14 20:15	13.6	256	7.68	282.2	9.87
12/12/14 20:20	13.6	269	7.68	284.7	9.86
12/12/14 20:25	13.6	270	7.68	279.4	9.86
12/12/14 20:30	13.6	270	7.68	275	9.86
12/12/14 20:35	13.6	270	7.68	254.3	9.85
12/12/14 20:40	13.6	275	7.68	280.2	9.85
12/12/14 20:45	13.6	269	7.68	290.2	9.85
12/12/14 20:50	13.5	282	7.68	285.2	9.85
12/12/14 20:55	13.5	286	7.68	302.6	9.86
12/12/14 21:00	13.5	289	7.67	274	9.86
12/12/14 21:05	13.5	293	7.68	288.2	9.86
12/12/14 21:10	13.5	297	7.67	289.3	9.85
12/12/14 21:15	13.5	293	7.68	257.7	9.85
12/12/14 21:20	13.5	300	7.68	281.7	9.85
12/12/14 21:25	13.5	293	7.67	296.7	9.85
12/12/14 21:30	13.5	301	7.68	316.9	9.85
12/12/14 21:35	13.5	302	7.68	287.4	9.85
12/12/14 21:40	13.5	277	7.67	278.5	9.85
12/12/14 21:45	13.5	292	7.67	310.6	9.84
12/12/14 21:50	13.5	308	7.67	322.2	9.84
12/12/14 21:55	13.5	300	7.67	277.5	9.83
12/12/14 22:00	13.5	311	7.67	309.6	9.84
12/12/14 22:05	13.5	313	7.67	315.8	9.84
12/12/14 22:10	13.5	306	7.67	299.2	9.84
12/12/14 22:15	13.5	299	7.67	296.8	9.83
12/12/14 22:20	13.5	296	7.67	294.2	9.84
12/12/14 22:25	13.5	264	7.67	301.5	9.82
12/12/14 22:30	13.5	264	7.67	322.5	9.83
12/12/14 22:35	13.5	268	7.67	299	9.84
12/12/14 22:40	13.4	291	7.67	297.3	9.85
12/12/14 22:45	13.4	290	7.67	309.1	9.85
12/12/14 22:50	13.4	286	7.67	296.9	9.84
12/12/14 22:55	13.4	265	7.68	348.9	9.84
12/12/14 23:00	13.4	272	7.66	309.9	9.85
12/12/14 23:05	13.4	282	7.66	340.6	9.85
12/12/14 23:10	13.3	279	7.66	316.1	9.85
12/12/14 23:15	13.3	308	7.65	310	9.85
12/12/14 23:20	13.3	291	7.67	331.8	9.85
12/12/14 23:25	13.3	325	7.66	329.7	9.87
12/12/14 23:30	13.3	350	7.66	340.8	9.87
12/12/14 23:35	13.3	372	7.67	343.5	9.9
12/12/14 23:40	13.2	383	7.68	312.1	9.89
12/12/14 23:45	13.2	389	7.68	334.1	9.91

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 23:50	13.2	393	7.69	327.2	9.91
12/12/14 23:55	13.2	397	7.69	340.9	9.92
12/13/14 0:00	13.2	401	7.69	327.2	9.91
12/13/14 0:05	13.2	404	7.7	341	9.92
12/13/14 0:10	13.2	408	7.7	349.3	9.93
12/13/14 0:15	13.2	411	7.7	299.9	9.93
12/13/14 0:20	13.2	415	7.7	321.4	9.93
12/13/14 0:25	13.2	418	7.7	310.6	9.93
12/13/14 0:30	13.1	422	7.7	320.1	9.94
12/13/14 0:35	13.1	426	7.7	314.3	9.94
12/13/14 0:40	13.1	429	7.71	323.1	9.94
12/13/14 0:45	13.1	404	7.71	331	9.93
12/13/14 0:50	13.1	434	7.71	329.2	9.94
12/13/14 0:55	13.1	434	7.71	323.9	9.95
12/13/14 1:00	13.1	438	7.71	320	9.95
12/13/14 1:05	13.0	434	7.71	312	9.94
12/13/14 1:10	13.0		7.71	319.3	9.96
12/13/14 1:15	13.0		7.72	327.3	9.95
12/13/14 1:20	13.0		7.72	317.5	9.95
12/13/14 1:25	13.0		7.72	309	9.95
12/13/14 1:30	13.0		7.72	317.9	9.96
12/13/14 1:35	13.0		7.72	299	9.96
12/13/14 1:40	13.0		7.72	303.5	9.97
12/13/14 1:45	12.9		7.72	312.3	9.96
12/13/14 1:50	12.9		7.72	312.1	9.97
12/13/14 1:55	12.9		7.73	309.6	9.98
12/13/14 2:00	12.9		7.73	306.7	9.76
12/13/14 2:05	12.9		7.73	303.1	9.98
12/13/14 2:10	12.9		7.73	314	9.99
12/13/14 2:15	12.9		7.73	321.9	9.89
12/13/14 2:20	12.9		7.73	331.8	10.02
12/13/14 2:25	12.8		7.73	299.6	9.58
12/13/14 2:30	12.8		7.74	301	9.82
12/13/14 2:35	12.8		7.74	303.1	9.92
12/13/14 2:40	12.8		7.75	298.1	9.67
12/13/14 2:45	12.8		7.75	286.2	9.99
12/13/14 2:50	12.7		7.75	284.3	9.61
12/13/14 2:55	12.7		7.76	262.6	9.57
12/13/14 3:00	12.7		7.76	286.5	9.58
12/13/14 3:05	12.7		7.75	275.4	9.67
12/13/14 3:10	12.7		7.76	264.6	9.57
12/13/14 3:15	12.7		7.76	271.3	9.54
12/13/14 3:20	12.7		7.76	263.8	9.52
12/13/14 3:25	12.7		7.76	267.2	9.51

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/13/14 3:30	12.7		7.76	267.1	9.56
12/13/14 3:35	12.6		7.77	257.5	9.53
12/13/14 3:40	12.6		7.76	262.5	9.53
12/13/14 3:45	12.6		7.77	248.8	9.52
12/13/14 3:50	12.6		7.77	252.3	9.54
12/13/14 3:55	12.5		7.77	247.7	9.59
12/13/14 4:00	12.5		7.79	246.5	9.56
12/13/14 4:05	12.5		7.81	244.8	9.57
12/13/14 4:10	12.4		7.79	246.5	9.6
12/13/14 4:15	12.3		7.82	235.4	9.6
12/13/14 4:20	12.3		7.79	235.9	9.58
12/13/14 4:25	12.2		7.79	229.8	9.64
12/13/14 4:30	12.2		7.78	242.7	9.62
12/13/14 4:35	12.1		7.78	230.9	9.68
12/13/14 4:40	12.1		7.8	216.9	9.71
12/13/14 4:45	12.0		7.79	217.7	9.71
12/13/14 4:50	12.0		7.8	211.7	9.75
12/13/14 4:55	11.9		7.8	221.6	9.78
12/13/14 5:00	11.8		7.79	211.6	9.85
12/13/14 5:05	11.8		7.79	208.7	9.84
12/13/14 5:10	11.7		7.79	204.2	9.83
12/13/14 5:15	11.7		7.78	211.9	9.91
12/13/14 5:20	11.7		7.78	203.4	10.04
12/13/14 5:25	11.6		7.78	200.2	10.05
12/13/14 5:30	11.6		7.78	202.5	10.08
12/13/14 5:35	11.5		7.78	207.5	9.96
12/13/14 5:40	11.5		7.78	212.2	10.13
12/13/14 5:45	11.5		7.78	204.8	10.14
12/13/14 5:50	11.4		7.77	191.7	10.12
12/13/14 5:55	11.4		7.77	193.1	10.08
12/13/14 6:00	11.3		7.77	189	10.15
12/13/14 6:05	11.3		7.77	185.2	10.17
12/13/14 6:10	11.2		7.77	188.3	10.18
12/13/14 6:15	11.2		7.76	192.8	10.18
12/13/14 6:20	11.2		7.76	197.8	10.18
12/13/14 6:25	11.1		7.76	174.7	10.2
12/13/14 6:30	11.1		7.76	238.1	10.21
12/13/14 6:35	11.1		7.75	201.5	10.22
12/13/14 6:40	11.0		7.75	165.3	10.23
12/13/14 6:45	11.0		7.75	186.5	10.23
12/13/14 6:50	10.9		7.75	186.5	10.24
12/13/14 6:55	10.9		7.75	169.6	10.24
12/13/14 7:00	10.9		7.75	158.5	10.25
12/13/14 7:05	10.8		7.75	170	10.25

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/13/14 7:10	10.8		7.75	170	10.25
12/13/14 7:15	10.8		7.75	170	10.25
12/13/14 7:20	10.8		7.75	153.6	10.25
12/13/14 7:25	10.8		7.75	135.7	10.25
12/13/14 7:30	10.8		7.75	117.8	10.25
12/13/14 7:35	10.8		7.75	99.9	10.25
12/13/14 7:40	10.8		7.76	99.9	10.23
12/13/14 7:45	10.9		7.76	99.9	10.2
12/13/14 7:50	11.7		7.78	99.9	9.98
12/13/14 7:55	12.7		7.81	109.4	9.75
12/13/14 8:00	13.5		7.82	109.4	9.6
12/13/14 8:05	14.1		7.81	109.4	9.45
12/13/14 8:10	14.7		7.8	109.4	9.34
12/13/14 8:15	15.2		7.77	164	9.24
12/13/14 8:20	15.5		7.74	164	9.18
12/13/14 8:25	15.9		7.71	130	9.12
12/13/14 8:30	16.2		7.7	130	9.06

Table G-7. Storm 2 TL Sonde Measurements

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 2:00	15.5		6.76		10.1
12/12/14 2:05	15.5		6.75		10.1
12/12/14 2:10	15.6		6.76		10.1
12/12/14 2:15	15.6		6.76		10.1
12/12/14 2:20	15.6		6.77		10.1
12/12/14 2:25	15.5		6.77		10.1
12/12/14 2:30	15.5		6.79		10.1
12/12/14 2:35	15.5		6.8		10.1
12/12/14 2:40	15.4		6.79		10.1
12/12/14 2:45	15.3		6.81		10.2
12/12/14 2:50	15.3		6.81		10.2
12/12/14 2:55	15.2		6.79		10.2
12/12/14 3:00	15.2		6.8		10.2
12/12/14 3:05	15.3		6.78		10.2
12/12/14 3:10	15.3		6.78	0.2	10.2
12/12/14 3:15	15.2		6.8	4.2	10.2
12/12/14 3:20	15.1		6.8	15.8	10.2
12/12/14 3:25	15.1		6.8	49.5	10.2
12/12/14 3:30	15.0		6.86	106.9	10.3
12/12/14 3:35	14.4		6.82	651.1	10.5
12/12/14 3:40	13.8	14	7.88	94.1	9.6
12/12/14 3:45	12.8	28	7.08	158.6	11.1
12/12/14 3:50	12.6	100	7.13	1299.3	11.8
12/12/14 3:55	12.8	120	6.89	123.4	11.9
12/12/14 4:00	12.7	75	6.87	99	11.8
12/12/14 4:05	12.6	67	6.8	101.4	11.8
12/12/14 4:10	12.6	66	6.75	100	11.7
12/12/14 4:15	12.6	58	6.73	93.8	11.7
12/12/14 4:20	12.5	57	6.74	98	11.7
12/12/14 4:25	12.5	59	6.9	121.2	11.6
12/12/14 4:30	12.6	64	7.17	127.3	11.6
12/12/14 4:35	12.6	68	7.27	133.5	11.6
12/12/14 4:40	12.7	69	7.31	125.8	11.6
12/12/14 4:45	12.7	69	7.37	123.2	11.6
12/12/14 4:50	12.7	66	7.39	115.7	11.6
12/12/14 4:55	12.7	68	7.38	113	11.6
12/12/14 5:00	12.7	93	7.37	115.5	11.6
12/12/14 5:05	12.7	120	7.4	107.4	11.6
12/12/14 5:10	12.7	111	7.44	104.3	11.6
12/12/14 5:15	12.7	99	7.44	94.6	11.6
12/12/14 5:20	12.7	95	7.4	85	11.6
12/12/14 5:25	12.7	91	7.37	71.3	11.6

Date and Time	Temperature ^{o}C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 5:30	12.7	87	7.33	61.2	11.6
12/12/14 5:35	12.7	82	7.29	52.2	11.6
12/12/14 5:40	12.7	80	7.21	45.9	11.6
12/12/14 5:45	12.7	77	7.17	40.5	11.6
12/12/14 5:50	12.7	75	7.16	35.8	11.6
12/12/14 5:55	12.6	73	7.13	35	11.6
12/12/14 6:00	12.6	72	7.1	35.5	11.6
12/12/14 6:05	12.6	73	7.1	33.8	11.6
12/12/14 6:10	12.7	74	7.09	32.6	11.6
12/12/14 6:15	12.7	74	7.1	30	11.6
12/12/14 6:20	12.6	74	7.09	29.1	11.6
12/12/14 6:25	12.6	75	7.08	26.7	11.6
12/12/14 6:30	12.6	74	7.07	26.3	11.6
12/12/14 6:35	12.6	75	7.06	25.5	11.6
12/12/14 6:40	12.6	75	7.06	26.9	11.6
12/12/14 6:45	12.6	74	7.06	23.8	11.6
12/12/14 6:50	12.6	75	7.06	24	11.6
12/12/14 6:55	12.6	103	6.71	25.1	11.3
12/12/14 7:00	12.6	153	6.17	25.2	10.4
12/12/14 7:05	12.6	120	6.21	26.2	10.6
12/12/14 7:10	12.6	98	6.36	24.1	11.1
12/12/14 7:15	12.6	91	6.48	25.2	11.3
12/12/14 7:20	12.6	86	6.57	25	11.4
12/12/14 7:25	12.6	83	6.64	23.7	11.5
12/12/14 7:30	12.5	80	6.71	23.9	11.5
12/12/14 7:35	12.5	78	6.77	23.6	11.6
12/12/14 7:40	12.5	78	6.8	23.7	11.6
12/12/14 7:45	12.6	79	6.86	23.1	11.6
12/12/14 7:50	12.6	79	6.89	24.5	11.6
12/12/14 7:55	12.6	79	6.91	25.5	11.6
12/12/14 8:00	12.6	81	6.94	27.6	11.6
12/12/14 8:05	12.6	82	6.96	26.6	11.6
12/12/14 8:10	12.6	83	6.98	27.8	11.6
12/12/14 8:15	12.6	86	7	26.1	11.6
12/12/14 8:20	12.6	86	7.02	26.7	11.6
12/12/14 8:25	12.7	89	7.03	29.6	11.5
12/12/14 8:30	12.7	89	7.05	30.9	11.5
12/12/14 8:35	12.7	92	7.06	27.7	11.5
12/12/14 8:40	12.7	95	7.08	28.2	11.5
12/12/14 8:45	12.7	97	7.1	28.9	11.5
12/12/14 8:50	12.7	100	7.11	29.6	11.4
12/12/14 8:55	12.8	105	7.12	31.2	11.4
12/12/14 9:00	12.8	110	7.13	30.7	11.4
12/12/14 9:05	12.9	122	7.15	32	11.4

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 9:10	12.9	125	7.17	34.6	11.4
12/12/14 9:15	12.9	125	7.19	34.9	11.3
12/12/14 9:20	12.9	120	7.19	36.3	11.4
12/12/14 9:25	13.0	118	7.18	38.8	11.4
12/12/14 9:30	13.1	127	7.17	57.3	11.4
12/12/14 9:35	13.1	93	7.2	106.3	11.4
12/12/14 9:40	13.2	84	7.17	82.7	11.4
12/12/14 9:45	13.2	79	7.18	76.8	11.5
12/12/14 9:50	13.1	70	7.09	74.5	11.5
12/12/14 9:55	13.2	64	7.05	67.8	11.5
12/12/14 10:00	13.2	64	7.06	67.1	11.4
12/12/14 10:05	13.2	66	6.97	58.3	11.4
12/12/14 10:10	13.3	67	7.01	57.5	11.4
12/12/14 10:15	13.3	69	7.03	61.8	11.4
12/12/14 10:20	13.4	70	7.04	65.7	11.4
12/12/14 10:25	13.4	71	7.07	65.4	11.4
12/12/14 10:30	13.5	77	7.17	59.3	11.3
12/12/14 10:35	13.5	84	7.26	55.9	11.3
12/12/14 10:40	13.6	87	7.36	58.8	11.3
12/12/14 10:45	13.6	93	7.41	60.7	11.3
12/12/14 10:50	13.7	98	7.46	53.6	11.3
12/12/14 10:55	13.7	105	7.46	54.5	11.2
12/12/14 11:00	13.8	117	7.45	57.2	11.2
12/12/14 11:05	13.8	133	7.46	59.7	11.2
12/12/14 11:10	14.0	151	7.48	62.9	11.1
12/12/14 11:15	14.1	164	7.48	62.9	11.1
12/12/14 11:20	14.3	174	7.49	58.5	11.1
12/12/14 11:25	14.3	187	7.52	58.4	11.0
12/12/14 11:30	14.5	199	7.5	61.2	11.0
12/12/14 11:35	14.6	227	7.54	66.1	11.0
12/12/14 11:40	14.7	247	7.53	65.7	10.9
12/12/14 11:45	14.9	259	7.55	63.7	10.9
12/12/14 11:50	15.0	259	7.58	63.9	10.9
12/12/14 11:55	15.1	267	7.59	62.4	10.9
12/12/14 12:00	15.2	276	7.59	62.1	10.9
12/12/14 12:05	15.3	284	7.6	60.1	10.9
12/12/14 12:10	15.4	162	7.6	57.6	10.9
12/12/14 12:15	15.5	158	7.62	54.9	10.9
12/12/14 12:20	15.6	161	7.63	55.3	10.9
12/12/14 12:25	15.7		7.65	55	10.8
12/12/14 12:30	15.7		7.66	52.4	10.7
12/12/14 12:35	15.8		7.67	54	10.7
12/12/14 12:40	15.7		7.67	53.7	10.8
12/12/14 12:45	15.2		7.52	52.3	10.9

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 12:50	14.6		7.41	51.8	11.1
12/12/14 12:55	14.8		7.45	48.5	11.1
12/12/14 13:00	14.7		7.39	45.7	11.1
12/12/14 13:05	14.6		7.29	45	10.9
12/12/14 13:10	14.6		7.32	45.4	10.8
12/12/14 13:15	14.5		7.23	44.6	10.8
12/12/14 13:20	14.5		7.19	41.9	10.8
12/12/14 13:25	14.6		7.16	42.4	10.8
12/12/14 13:30	14.6		7.11	43.6	10.8
12/12/14 13:35	14.6		7.1	43.2	10.8
12/12/14 13:40	14.5		7.03	40.7	10.8
12/12/14 13:45	14.5		7.02	40.7	10.8
12/12/14 13:50	14.6		7.02	39.6	10.8
12/12/14 13:55	14.5		7	40.8	10.8
12/12/14 14:00	14.5		6.97	1113	10.8
12/12/14 14:05	14.5		6.92	1012.4	10.8
12/12/14 14:10	14.3		6.89	774.4	10.8
12/12/14 14:15	14.2		6.87	692	10.9
12/12/14 14:20	14.3		6.87	557.4	10.8
12/12/14 14:25	14.3		6.87	156.9	10.8
12/12/14 14:30	14.3		6.87	148.7	10.8
12/12/14 14:35	14.3		6.89	111.3	10.8
12/12/14 14:40	14.3		6.84	87.7	10.8
12/12/14 14:45	14.2		6.87	60.3	10.8
12/12/14 14:50	14.3		6.87	47.9	10.8
12/12/14 14:55	14.3		6.86	42.4	10.8
12/12/14 15:00	14.3		6.86	58.2	10.8
12/12/14 15:05	14.3		6.85	110.4	10.8
12/12/14 15:10	14.3		6.85	105.1	10.8
12/12/14 15:15	14.3		6.87	59.4	10.8
12/12/14 15:20	14.3		6.84	36.3	10.8
12/12/14 15:25	14.3		6.84	17.5	10.8
12/12/14 15:30	14.3		6.85	11.7	10.8
12/12/14 15:35	14.3		6.83	11	10.8
12/12/14 15:40	14.3		6.81	9.4	10.8
12/12/14 15:45	14.3		6.87	10.9	10.8
12/12/14 15:50	14.2		6.81	7.1	10.8
12/12/14 15:55	14.2		6.84	6.4	10.8
12/12/14 16:00	14.2		6.81	7.3	10.8

amec foster wheeler

Table G-8. Storm 2 PLU Sonde Measurements

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 3:00	17.4	838	7.02	10.1	2.14
12/12/14 3:05	17.4	838	7.02	9.6	2.14
12/12/14 3:10	17.4	838	7.02	9.7	2.12
12/12/14 3:15	17.4	839	7.02	9.5	2.11
12/12/14 3:20	17.4	839	7.02	10.3	2.12
12/12/14 3:25	17.4	840	7.02	9.8	2.12
12/12/14 3:30	17.4	840	7.02	9.4	2.13
12/12/14 3:35	15.3	309	7.01	150.2	6.39
12/12/14 3:40	14.4	226	6.82	184.7	9.8
12/12/14 3:45	14.4	98	6.87	186.6	10.43
12/12/14 3:50	14.6	88	6.87	124.2	10.47
12/12/14 3:55	14.7	90	6.86	105.5	10.45
12/12/14 4:00	14.8	95	6.87	78	10.45
12/12/14 4:05	14.9	101	6.89	64	10.45
12/12/14 4:10	15.0	107	6.91	52.3	10.41
12/12/14 4:15	15.0	113	6.93	46.2	10.4
12/12/14 4:20	15.1	119	6.94	42.4	10.39
12/12/14 4:25	15.1	125	6.95	35.9	10.37
12/12/14 4:30	15.2	129	6.96	36.4	10.35
12/12/14 4:35	15.2	131	6.98	34.6	10.34
12/12/14 4:40	15.3	133	6.98	29.8	10.32
12/12/14 4:45	15.2	128	7	29.6	10.34
12/12/14 4:50	15.2	121	7.03	25.5	10.39
12/12/14 4:55	15.2	111	7.04	20.9	10.42
12/12/14 5:00	15.1	102	7.04	16.8	10.43
12/12/14 5:05	15.1	97	7.04	15.8	10.45
12/12/14 5:10	15.2	93	7.04	13.1	10.44
12/12/14 5:15	15.2	92	7.03	12.2	10.43
12/12/14 5:20	15.2	90	7.03	12.2	10.44
12/12/14 5:25	15.2	87	7.03	11.4	10.45
12/12/14 5:30	15.2	84	7.02	9.6	10.45
12/12/14 5:35	15.2	81	7.02	9.9	10.47
12/12/14 5:40	15.2	80	7.02	9	10.47
12/12/14 5:45	15.2	79	7.02	9.6	10.46
12/12/14 5:50	15.2	79	7.02	9.2	10.43
12/12/14 5:55	15.2	80	7.03	9.5	10.44
12/12/14 6:00	15.3	81	7.04	8.3	10.43
12/12/14 6:05	15.3	81	7.04	7	10.43
12/12/14 6:10	15.3	81	7.05	6.5	10.44
12/12/14 6:15	15.3	81	7.06	7.8	10.43
12/12/14 6:20	15.3	81	7.06	7.6	10.44
12/12/14 6:25	15.3	80	7.06	7.4	10.45

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 6:30	15.2	80	7.06	7.3	10.45
12/12/14 6:35	15.2	79	7.06	7.3	10.44
12/12/14 6:40	15.2	78	7.06	6.8	10.45
12/12/14 6:45	15.2	77	7.06	7.6	10.47
12/12/14 6:50	15.2	77	7.06	7	10.46
12/12/14 6:55	15.2	77	7.06	8.3	10.47
12/12/14 7:00	15.2	77	7.06	7.5	10.47
12/12/14 7:05	15.2	78	7.06	7.7	10.46
12/12/14 7:10	15.2	79	7.07	6.5	10.47
12/12/14 7:15	15.2	80	7.07	6.7	10.46
12/12/14 7:20	15.2	82	7.07	6.8	10.44
12/12/14 7:25	15.2	80	7.08	7.1	10.46
12/12/14 7:30	15.1	75	7.08	9	10.47
12/12/14 7:35	15.1	71	7.07	8.5	10.5
12/12/14 7:40	15.1	68	7.06	8.8	10.53
12/12/14 7:45	15.1	69	7.05	9.4	10.53
12/12/14 7:50	15.1	71	7.05	10.2	10.5
12/12/14 7:55	15.1	75	7.05	14.4	10.48
12/12/14 8:00	15.2	79	7.05	14.2	10.45
12/12/14 8:05	15.2	83	7.06	13.9	10.42
12/12/14 8:10	15.3	87	7.07	12.5	10.39
12/12/14 8:15	15.3	90	7.07	12.5	10.37
12/12/14 8:20	15.3	92	7.07	15.8	10.33
12/12/14 8:25	15.4	100	7.06	13.4	10.29
12/12/14 8:30	15.4	103	7.06	15	10.29
12/12/14 8:35	15.4	104	7.07	16.1	10.31
12/12/14 8:40	15.4	108	7.08	18.9	10.3
12/12/14 8:45	15.5	112	7.1	22	10.29
12/12/14 8:50	15.5	116	7.11	26.7	10.26
12/12/14 8:55	15.5	118	7.12	36.5	10.27
12/12/14 9:00	15.5	126	7.12	27.8	10.24
12/12/14 9:05	15.6	129	7.14	25.3	10.23
12/12/14 9:10	15.6	130	7.14	29.5	10.2
12/12/14 9:15	15.6	131	7.14	29.1	10.16
12/12/14 9:20	15.6	134	7.14	28.7	10.15
12/12/14 9:25	15.6	135	7.14	28.6	10.16
12/12/14 9:30	15.6	138	7.14	49.9	10.14
12/12/14 9:35	15.6	138	7.16	34.1	10.13
12/12/14 9:40	15.7	138	7.16	34.7	10.1
12/12/14 9:45	15.7	142	7.15	36	10.12
12/12/14 9:50	15.8	146	7.15	36.1	10.09
12/12/14 9:55	15.7	146	7.15	33.2	10.09
12/12/14 10:00	15.8	148	7.16	37.8	10.07
12/12/14 10:05	15.8	153	7.16	41	10.03

Date and Time	Temperature °C	Conductivity (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12/12/14 10:10	15.9	158	7.17	45.4	10.02
12/12/14 10:15	16.0	161	7.17	45.2	9.99
12/12/14 10:20	16.0	165	7.18	41.4	9.97
12/12/14 10:25	16.1	172	7.18	46.3	9.93
12/12/14 10:30	16.2	174	7.2	46.5	9.89
12/12/14 10:35	16.2	176	7.2	46.2	9.88
12/12/14 10:40	16.3	183	7.21	52	9.88
12/12/14 10:45	16.6	193	7.23	56.6	9.83
12/12/14 10:50	16.6	200	7.23	55.9	9.78
12/12/14 10:55	16.8	203	7.29	57.4	9.77
12/12/14 11:00	16.9	210	7.31	58.4	9.73
12/12/14 11:05	17.0	214	7.35	60.9	9.67
12/12/14 11:10	17.1	221	7.36	60.5	9.67
12/12/14 11:15	17.2	228	7.34	64.3	9.64
12/12/14 11:20	17.3	234	7.38	62.3	9.6
12/12/14 11:25	17.3	240	7.4	64.5	9.58
12/12/14 11:30	17.5	245	7.39	63.4	9.54
12/12/14 11:35	17.6	254	7.36	64.5	9.5
12/12/14 11:40	17.6	261	7.35	62.1	9.46
12/12/14 11:45	17.7	264	7.36	59.4	9.43
12/12/14 11:50	17.7	269	7.41	59.9	9.41
12/12/14 11:55	17.7	270	7.44	59.2	9.4
12/12/14 12:00	17.8	275	7.44	60.1	9.37

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APPENDIX H

SONDE CALIBRATION LOGS

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MEASUREMENT CONVERSIONS

S. to METRIC	METRIC to U.S.
x 2.54 = centimeter	centimeter x 0.394 = inch
x 0.3048 = meter	meter x 3.28 = foot
ls x 0.914 = meter	meter x 1.094 = yards
x 1.609 = kilometer	kilometer x 0.621 = mile
rt x 0.946 = liter	liter x 1.057 = quarts
on x 3.785 = liter	liter x 0.264 = gallon
ce x 28.349 = grams	grams x 0.035 = ounce
x 0.454 = kg	kg x 2.205 = lbs
x 0.245 = km/ltr	km/ltr x 2.354 = mpg
x 1.609 = km/hr	km/hr x 0.621 = mph
o °C (F - 32) x .555	°C to °F (C x 1.8) + 32

NGLISH LINEAR MEASUREMENTS

12 inches = 1 foot
36 inches = 1 yard
3 feet = 1 yard
1,760 yards = 1 mile statute
2,026.8 yards = 1 mile nautical
5,280 feet = 1 mile statute
6,060.4 feet = 1 mile nautical
63,360 inches = 1 mile statute
72,963 inches = 1 mile nautical

IAP SCALES—ENGLISH & METRIC

SCALE	1 INCH =	1 CENTIMETER =
1:10,000	833.33 feet 254 meters	328.1 feet 100 meters
1:25,000	2,083.3 feet 635 meters	820.2 feet 250 meters
1:50,000	4,166.7 feet 1,270 meters	1,640.4 feet 500 meters
1:63,360	5,280 feet 1,609.3 meters	2,078 feet 633.6 meters
1:100,000	8,333.3 feet 2,540 meters	3,280.8 feet 1,000 meters
1:250,000	20,833 feet 6,350 meters	8,202 feet 2,500 meters
1:500,000	41,667 feet 12,700 meters	16,404 feet 5,000 meters

LA River

YSI 6920 V2

SN 0001A2C9 - Circut ID

2/12/14

DO % sat @ 760 mmHg

EC 1,000 uS/cm = 1,000

10,000 uS/cm = 10.01 mS

pH 4, 7, 10

pH 7 = 6.90

Turb 0, 126, 1,000 NTU

1000 NTU = 1000 NTU

0 NTU = 3.1 NTU

MEASUREMENT CONVERSIONS

S. to METRIC	METRIC to U.S.
x 2.54 = centimeter	centimeter x 0.394 = inch
x 0.3048 = meter	meter x 3.28 = foot
ls x 0.914 = meter	meter x 1.094 = yards
x 1.609 = kilometer	kilometer x 0.621 = mile
rt x 0.946 = liter	liter x 1.057 = quarts
on x 3.785 = liter	liter x 0.264 = gallon
ce x 28.349 = grams	grams x 0.035 = ounce
x 0.454 = kg	kg x 2.205 = lbs
x 0.245 = km/ltr	km/ltr x 2.354 = mpg
x 1.609 = km/hr	km/hr x 0.621 = mph
°C (F - 32) x .555	°C to °F (C x 1.8) + 32

NGLISH LINEAR MEASUREMENTS

12 inches = 1 foot
36 inches = 1 yard
3 feet = 1 yard
1,760 yards = 1 mile statute
2,026.8 yards = 1 mile nautical
5,280 feet = 1 mile statute
6,060.4 feet = 1 mile nautical
63,360 inches = 1 mile statute
72,963 inches = 1 mile nautical

AP SCALES—ENGLISH & METRIC

CALE	1 INCH =	1 CENTIMETER =
10,000	833.33 feet 254 meters	328.1 feet 100 meters

DC

YSI 6920 V2

Circut ID = SN 0001 8A16

2/17/14

DO % sat @ 760 mm Hg

EC 1,000 uS/cm = 1.00 mS/cm

10,000 uS/cm = 10.01 mS/cm

pH 4, 7, 10

pH 7 = 6.91

Turb 0, 126, 1,000 NTU

1000 NTU = 999.8 NTU

LA River

YSI 6920 V2

SN 0001A2C9 - Circuit ID

2/24/14

DO % saturation @ 760 mmHg

EC 1,000 uS/cm = 1.00 mS/cm

10,000 uS/cm = 10.00 mS/cm

pH 4,7,10

pH 7 = 6.89

Turb Ø, 126, 1,000 NTU

Ø = 0.1 NTU

1,000 = 1,000 NTU

DC

YSI 6920 V2

Circuit ID = SD/ØØØ18A16

2/24/14

DO % saturation @ 76Ø mmHg

EC 1000 uS/cm = 1.00 mS/cm

10,000 uS/cm = 10.00 mS/cm

pH 4,7,10

pH 7 = 6.86

Turb Ø, 126, 1,000

Ø = Ø.Ø NTU

3/31/14

DO % Sat @ 760 mm Hg
EC 1,000 uS @ 25°C 1. mS/cm
10,000 uS @ 25°C 10.18 mS/cm
pH 4, 7, 10
pH 7 = 6.94

Turs 0, 126, 1,000
0 = 0
1,000 = 1,001

3/31/14
DO % Sat @ 760 mm Hg
EC 1,000 uS @ 25°C - 1.003 mS/cm
10,000 uS @ 25°C 10. mS/cm
pH 4, 7, 10
pH 7 = 6.72
Turs 0, 126, 1,000

LAR

YSI 6920 V2
Circut ID= SN 000165B0
12/9/14
Turb 0, 126, 1,000 NTU
1000 NTU = 999.7
0 NTU = 0.0
EC 1,000 uS = 1,001
10,000 uS = 10,000
pH 4, 7, 10
pH 7 = 6.96
DO % sat 760mm HG

Rite in the Rain.

DC

YSI 6920 V2
Circut ID= SN 000191F3
12/9/14
Turb 0, 126, 1000 NTU
1000 = 1,000
0 NTU = 0.0
EC 1,000 uS = 1,000
10,000 uS = 9,999
pH 4, 7, 10
pH 7 = 7.03
DO % sat 760mm HG

IEASUREMENT CONVERSIONS

ı. to METRIC	METRIC to U.S.
x 2.54 = centimeter	centimeter x 0.394 = inch
x 0.3048 = meter	meter x 3.28 = foot
s x 0.914 = meter	meter x 1.094 = yards
x 1.609 = kilometer	kilometer x 0.621 = mile
t x 0.946 = liter	liter x 1.057 = quarts
ın x 3.785 = liter	liter x 0.264 = gallon
:e x 28.349 = grams	grams x 0.035 = ounce
0.454 = kg	kg x 2.205 = lbs
x 0.245 = km/ltr	km/ltr x 2.354 = mpg
x 1.609 = km/hr	km/hr x 0.621 = mph
ı °C (F - 32) x .555	°C to °F (C x 1.8) + 32

IGLISH LINEAR MEASUREMENTS

12 inches = 1 foot
36 inches = 1 yard
3 feet = 1 yard
1,760 yards = 1 mile statute
2,026.8 yards = 1 mile nautical
5,280 feet = 1 mile statute
6,060.4 feet = 1 mile nautical
63,360 inches = 1 mile statute
72,963 inches = 1 mile nautical

:AP SCALES—ENGLISH & METRIC

CALE	1 INCH =	1 CENTIMETER =
10,000	833.33 feet 254 meters	328.1 feet 100 meters
25,000	2,083.3 feet 635 meters	820.2 feet 250 meters
50,000	4,166.7 feet 1,270 meters	1,640.4 feet 500 meters
63,360	5,280 feet 1,609.3 meters	2,078 feet 633.6 meters
100,000	8,333.3 feet 2,540 meters	3,280.8 feet 1,000 meters
250,000	20,833 feet 6,350 meters	8,202 feet 2,500 meters
500,000	41,667 feet 12,700 meters	16,404 feet 5,000 meters

TL

YSI 6920 V2

circuit ID SN 0001653B

3/31/14

DO % Sat @ 760mmHg

EC 1,000 uS cm @ 25°C = 1.001 mS cm

10,000 uS cm @ 25°C = 10.01 mS cm

pH 4,7,10

pH 7 = 6.74

Turb 0, 126, 1,000

0 = 0.2

1,000 = 1,000

IEASUREMENT CONVERSIONS

;. to METRIC	METRIC to U.S.
x 2.54 = centimeter	centimeter x 0.394 = inch
x 0.3048 = meter	meter x 3.28 = foot
ls x 0.914 = meter	meter x 1.094 = yards
x 1.609 = kilometer	kilometer x 0.621 = mile
rt x 0.946 = liter	liter x 1.057 = quarts
on x 3.785 = liter	liter x 0.264 = gallon
ce x 28.349 = grams	grams x 0.035 = ounce
‹ 0.454 = kg	kg x 2.205 = lbs
ı x 0.245 = km/ltr	km/ltr x 2.354 = mpg
ı x 1.609 = km/hr	km/hr x 0.621 = mph
o °C (F - 32) x .555	°C to °F (C x 1.8) + 32

NGLISH LINEAR MEASUREMENTS

12 inches = 1 foot
36 inches = 1 yard
3 feet = 1 yard
1,760 yards = 1 mile statute
2,026.8 yards = 1 mile nautical
5,280 feet = 1 mile statute
6,060.4 feet = 1 mile nautical
63,360 inches = 1 mile statute
72,963 inches = 1 mile nautical

IAP SCALES—ENGLISH & METRIC

SCALE	1 INCH =	1 CENTIMETER =
1:10,000	833.33 feet 254 meters	328.1 feet 100 meters

PLU

YSI 6280 V1

circuit ID 00014A26

3/31/14

DO % Sat @ 760 mmHg

EC 1,000 uS cm @ 25°C = 1.000 mS cm

10,000 uS cm @ 25°C = 10.01 mS cm

pH 4,7,10

pH 7 = 6.75

Turb 0, 126, 1,000

TL

YSI 6920 V2
Circut ID = SN 00019F2D
12/9/14
Turb 0, 126, 1000
1000 NTU = 1,000
0 NTU = 0.0
EC 1,000uS = 1,000
EC 10,000uS = 10,000
pH 4, 7, 10
pH 7 = 6.97
DO % sat 760 mmHG

Rite in the Rain.

PLU

YSI 6820 V2
Circut ID - NA
12/9/14
- Pine delivered incorrect style sonde, not capable of logging.
- Unit was rush returned & replacement unit sent. Due to time constraints, Pine calibrated the replacement sonde, a YSI 6920V2 &

APPENDIX I

ANALYTICAL LABORATORY REPORTS
(PROVIDED ON A CD)

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