



SFPP, L.P.
Operating Partnership

November 11, 2016

California Regional Water Quality Control Board
Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, California 90013

Re: Effluent Monitoring Report
July through September 2016
SFPP, L.P. Norwalk Pump Station
15306 Norwalk Boulevard, Norwalk, California
(NPDES No. CA0063509, CI No. 7497)

Attention: Information Technology Unit

In reference to the subject National Pollutant Discharge Elimination System (NPDES) permit, please find enclosed the Third Quarter 2016 Effluent Monitoring Report for the subject discharge.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on the 11th day of November 2016.
at 10:46 a.m.

A handwritten signature in blue ink, appearing to read 'Stephen Defibaugh', is written over a horizontal line.

_____ (signature)

Stephen T. Defibaugh (printed name)

Remediation Project Manager (title)



CH2M
6 Hutton Centre Drive
Suite 700
Santa Ana, CA 92707
O +1 714 429 2000
F +1 714 429 2050
www.ch2m.com

Mr. Stephen Defibaugh
Kinder Morgan Energy Partners, L.P.
1100 Town and Country Road
Orange, California 92868

November 15, 2016

Subject: Effluent Monitoring Report, July 1 to September 30, 2016 (Third Quarter 2016)
SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California
(NPDES No. CA0063509, CI No. 7497)

Dear Mr. Defibaugh,

This report has been prepared by CH2M HILL Engineers, Inc. (CH2M), on behalf of SFPP, L.P. (SFPP), an operating partnership of Kinder Morgan Energy Partners, L.P. (Kinder Morgan), to summarize National Pollutant Discharge Elimination System (NPDES) monitoring related to the discharge of treated groundwater from SFPP's product recovery and groundwater extraction (GWE) system. This system is installed at the SFPP Norwalk Pump Station located within the Defense Fuel Support Point Norwalk, at 15306 Norwalk Boulevard, Norwalk, California (the site; Figure 1).

SFPP performed certain operations, maintenance, and monitoring tasks on the product recovery and GWE systems. SFPP retained CH2M to prepare this report based on the NPDES monitoring performed by SFPP. This report describes NPDES monitoring activities during the period of July 1 to September 30, 2016.

Remediation Systems

SFPP operates remediation systems consisting of soil vapor extraction (SVE), total fluids extraction (TFE; extraction of free product and/or groundwater using a top-loading pump), GWE (extraction of groundwater using a bottom-loading pump), and treatment of extracted soil vapors and groundwater to address the south-central and southeastern areas of the site. Biosparging is also employed in the south-central area to enhance natural attenuation of hydrocarbon constituents.

Operation of the West Side Barrier (WSB) GWE system (WSB system) for remediation of the western offsite area was discontinued in August 2008 based on the reduced lateral extent and low concentrations of volatile organic compounds (VOCs) west of the site.

The objectives of the remediation systems are to contain and control the migration of hydrocarbon constituents in groundwater and soil vapor and to remove hydrocarbon mass from soil and groundwater. The remediation system includes the following wells:

- South-Central Area
 - 20 TFE wells
 - 24 onsite and 6 offsite SVE wells (most collocated with TFE wells)
 - 2 horizontal SVE wells
 - 1 horizontal biosparge well

- Southeastern Area (24-inch Block Valve Area)
 - 4 TFE wells (GMW-O-15, GMW-O-18, GMW-36, and GMW-SF-9)
 - 3 SVE wells (collocated with TFE wells)
 - 1 GWE well (GMW-SF-10)

The remediation system layout is shown on Figure 2. A brief description of each system is provided below.

SVE System

SVE is performed using a blower to remove soil vapors from the south-central and southeastern areas. The extracted vapors are conveyed to a knock-out tank that separates entrained moisture from the soil vapors. Accumulated moisture in the knock-out tank is treated by the main groundwater treatment system (GWTS) described below. The soil vapors are then treated in a regenerative thermal oxidizer (RTO) where VOCs are converted to carbon dioxide and water prior to being discharged to the atmosphere. Operation of the GWTS and SVE system is conducted in accordance with Permits to Construct (Application Nos. 569588 and 567723, respectively; ID 110835) issued by the South Coast Air Quality Management District (SCAQMD).

Groundwater Treatment System

The main GWTS handles free product and groundwater recovered from the south-central and southeastern parts of the site. Free product and groundwater recovered by pneumatically operated top-loading total fluid pumps and bottom-loading groundwater pumps are piped to an oil-water separator (OWS). Free product, if any, from the OWS is collected in a storage tank and recycled at an offsite location. Water from the OWS is treated using liquid-phase granular activated carbon (LGAC). Treated water is routed through an onsite 3,000-gallon equalization tank. Two fluidized bed bioreactors (FBBRs) installed downstream of the equalization tank treat fuel oxygenates such as tertiary butyl alcohol (TBA) and methyl tertiary butyl ether (MTBE). The treated groundwater then passes through polishing LGAC units prior to discharge to a storm drain that leads to Coyote Creek. Discharge to Coyote Creek is performed in accordance with a National Pollutant Discharge Elimination System permit (No. CA0063509; Order R4-2016-0309).

Horizontal Biosparge System

SFPP recently completed installation of a horizontal biosparge system in the south-central area of the site. The biosparge well is constructed of 4-inch-diameter Schedule 80 polyvinyl chloride (PVC) casing and screen completed to a vertical depth of approximately 45 feet below ground surface. The lateral distance of the screen interval is 600 feet, which is centered below the central portion of the south-central area hydrocarbon plume. Further details regarding the construction of the biosparge well is documented in the report titled, *Horizontal Biosparge Well and Soil Vapor Monitoring Probe Completion Report, SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California* (CH2M, February 8, 2015).

The compressor used to deliver ambient air to the biosparge well has a maximum design rate of approximately 500 standard cubic feet per minute (scfm). SFPP's SVE system has an interlock that ensures the biosparge system cannot operate unless the SVE system is operating. Operation of the SVE system reduces the potential for offgassing of VOCs during biosparge operations. Pilot testing of the biosparge system commenced on January 6, 2016, and is anticipated to continue for approximately 1 year in order to evaluate the feasibility of system expansion.

A summary of the GWTS operations is presented below. Operations of the SVE and biosparge systems are presented separately in quarterly remediation progress reports that are provided to the Regional Water Quality Control Board.

Summary of Quarterly GWTS Operations

A total of 217,956 gallons of groundwater were extracted from the south-central and southeastern areas during the third quarter 2016. Wells that were in operation included GMW-9 and GMW-25 in the south-central area and GMW-O-15 and GMW-SF-9 in the southeastern area. No groundwater was extracted from the WSB area during this period. Table 1 summarizes the average daily flow rate during the reporting period. The GWTS operated throughout the quarter, with the following exceptions:

- The GWTS was turned off on June 24, 2016, to facilitate groundwater sampling activities associated with biosparge pilot testing. The system remained offline during July and August 2016 to facilitate installation of a new OWS. The system was restarted on September 7, 2016, after installation of the OWS was complete.
- The GWTS was turned off on September 27, 2016, to facilitate gauging and sampling activities for the second semiannual groundwater monitoring event. The system was restarted on October 11, 2016, and will continue to operate during the fourth quarter 2016 for hydraulic control and product recovery in the south-central and southeastern areas.

No free product accumulated in the product holding tank of the GWTS during the third quarter 2016. Hand bailing of free product (from wells not equipped for TFE) was not performed in the third quarter 2016.

Routine Effluent Monitoring

Effluent water samples were collected pursuant to the Waste Discharge Requirements (WDRs) under Order No. R4-2011-0095. Samples were collected at the Order-designated monitoring point EFF-001 (Remediation System Effluent). Samples were transported to Asset Laboratories (formerly Advanced Technology Laboratories) in Las Vegas, Nevada, for analysis. Asset Laboratories is certified by the National Environmental Laboratory Accreditation Program and the California Department of Public Health Environmental Laboratory Accreditation Program. The samples were analyzed in accordance with current U.S. Environmental Protection Agency guidelines or as specified in the WDRs for the site. Analytical results for the monthly and quarterly effluent monitoring are summarized in Table 2. Laboratory analytical reports and chain-of-custody documents are included in Appendix A.

Summary of Compliance Results

As shown in Tables 1 and 2, the results of the monthly and quarterly effluent monitoring indicate that all discharge limitations were met during the reporting period.

Waste Hauling

No waste was generated or removed from the site during the third quarter 2016.

Should you require any further information, please contact me at (714) 435-6255.

Regards,
CH2M HILL Engineers, Inc.

A handwritten signature in black ink that reads "V. Cortes". The signature is written in a cursive style with a large, stylized "V" and "C".

Vidal Cortes
Project Engineer

Attachments:

- Table 1 – Effluent Flow Rate Measurements, Third Quarter 2016
- Table 2 – NPDES Effluent Monitoring, Third Quarter 2016
- Figure 1 – Site Location Map
- Figure 2 – Remediation System Layout
- Appendix A – Laboratory Analytical Reports and Chain-of-Custody Documents

Tables

Table 1. Effluent Flow Rate Measurements, Third Quarter 2016*SFPP Norwalk Pump Station, Norwalk, California*

Date	Average Flow Rate (gpd)
	(Maximum Daily Discharge Limit = 150,000 gpd ^a)
07/01/16	0
07/02/16	0
07/03/16	0
07/04/16	0
07/05/16	0
07/06/16	0
07/07/16	0
07/08/16	0
07/09/16	0
07/10/16	0
07/11/16	0
07/12/16	0
07/13/16	0
07/14/16	0
07/15/16	0
07/16/16	0
07/17/16	0
07/18/16	0
07/19/16	0
07/20/16	0
07/21/16	0
07/22/16	0
07/23/16	0
07/24/16	0
07/25/16	0
07/26/16	0
07/27/16	0
07/28/16	0
07/29/16	0
07/30/16	0
07/31/16	0
08/01/16	0
08/02/16	0
08/03/16	0
08/04/16	0
08/05/16	0
08/06/16	0
08/07/16	0
08/08/16	0
08/09/16	0
08/10/16	0
08/11/16	0
08/12/16	0
08/13/16	0
08/14/16	0
08/15/16	0
08/16/16	0
08/17/16	0
08/18/16	0
08/19/16	0
08/20/16	0
08/21/16	0
08/22/16	0
08/23/16	0
08/24/16	0
08/25/16	0
08/26/16	0
08/27/16	0

Table 1. Effluent Flow Rate Measurements, Third Quarter 2016

SFPP Norwalk Pump Station, Norwalk, California

Date	Average Flow Rate (gpd) (Maximum Daily Discharge Limit = 150,000 gpd ^a)
08/28/16	0
08/29/16	0
08/30/16	0
08/31/16	0
09/01/16	0
09/02/16	0
09/03/16	0
09/04/16	0
09/05/16	0
09/06/16	0
09/07/16	1,452
09/08/16	7,500
09/09/16	9,398
09/10/16	8,751
09/11/16	8,572
09/12/16	6,461
09/13/16	7,884
09/14/16	15,252
09/15/16	13,971
09/16/16	13,640
09/17/16	12,723
09/18/16	12,156
09/19/16	12,387
09/20/16	10,771
09/21/16	12,609
09/22/16	11,929
09/23/16	11,324
09/24/16	11,093
09/25/16	11,405
09/26/16	10,943
09/27/16	7,735
09/28/16	0
09/29/16	0
09/30/16	0

Notes:

^a California Regional Water Quality Control Board Waste Discharge Requirements

gpd = gallons per day

Table 2. NPDES Effluent Monitoring, Third Quarter 2016

SFPD Norwalk Pump Station, Norwalk, California

Analyte	Sampling Frequency	Analytical Method	Units	MDL ^c	RL ^c	ML ^a	9/20/2016	9/22/2016	Discharge Limits ^b	
									Monthly Average	Daily Maximum
Temperature	Monthly	--	°F	--	--	NE	--	85.0	--	86
Oil and Grease	Monthly	EPA 1664A	mg/L	0.76	5	NE	1.5 J	--	10	15
TPH as Gasoline (C4-C12)	Monthly	EPA 8015B	µg/L	16	50	NE	<16	--	--	--
TPH as Diesel (C13-C22)	Monthly	EPA 8015B	µg/L	16	26	NE	<16	--	--	--
TPH as Oil (C23+)	Monthly	EPA 8015B	µg/L	14	26	NE	18 J	--	--	--
Total TPH	Monthly	EPA 8015B	µg/L	16	50	NE	18 J	--	NE	100
Settleable Solids	Monthly	SM 2540F	mL/L/hr	0.091	0.091	NE	<0.10	--	0.1	0.3
Total Suspended Solids	Monthly	SM 2540D	mg/L	10	10	NE	<10	--	50	75
Phenol	Monthly	EPA 8270C	µg/L	0.33	2	1	<0.33	--	300	NE
Benzene	Monthly	EPA 8260B	µg/L	0.036	1.0	2.0	<0.036	--	1	NE
1,1-Dichloroethane	Monthly	EPA 8260B	µg/L	0.022	0.50	1.0	<0.022	--	5	NE
1,2-Dichloroethane	Monthly	EPA 8260B	µg/L	0.064	0.50	2.0	<0.064	--	0.5	NE
Ethylbenzene	Monthly	EPA 8260B	µg/L	0.036	1.0	2.0	<0.036	--	10	NE
Toluene	Monthly	EPA 8260B	µg/L	0.042	2.0	2.0	<0.042	--	10	NE
Methyl tertiary butyl ether	Monthly	EPA 8260B	µg/L	0.062	1.0	NE	<0.062	--	NE	5.0
Tertiary butyl alcohol	Monthly	EPA 8260B	µg/L	0.30	5.0	NE	<0.30	--	NE	12
Total Xylenes	Monthly	EPA 8260B	µg/L	1.5	2.0	NE	<1.5	--	10	NE
Copper (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.26	0.50	0.5	<0.26	--	16	33
Copper (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.26	0.50	0.5	<0.26	--	13	27
Lead (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.053	0.50	0.5	<0.053	--	8.2	15
Lead (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.053	0.50	0.5	<0.053	--	34	106
Mercury (total recoverable)	Monthly	EPA 245.1	µg/L	0.018	0.050	0.2	<0.018	--	0.051	0.14
Selenium (total recoverable)	Monthly	EPA 200.8	µg/L	0.070	0.50	2.0	0.11 J	--	3.4	9.2
Thallium (total recoverable)	Monthly	EPA 200.8	µg/L	0.034	0.50	1.0	0.081 J	--	6.3	13
Zinc (total recoverable) (wet weather) ^d	Monthly	EPA 200.8	µg/L	0.039	10	1.0	1.3 J	--	79	158
Chromium VI	Monthly	EPA 7199	µg/L	0.066	0.20	0.5	<0.066	--	8.1	16
pH	Quarterly	--	s.u.	--	--	NE	--	6.6	--	6.5/8.5
Ammonia Nitrogen (as N)	Quarterly	SM 4500 NH3C	mg/L	0.030	0.13	NE	<0.060	--	NE	NE
Di-isopropyl Ether	Quarterly	EPA 8260B	µg/L	0.017	1.0	NE	<0.017	--	NE	NE
Methylene Blue Active Substances	Quarterly	EPA 425.1	mg/L	0.015	0.10	NE	<0.015	--	NE	NE
Tert-amyl-methyl Ether	Quarterly	EPA 8260B	µg/L	0.039	1.0	NE	<0.039	--	NE	NE
Turbidity	Quarterly	SM 2130B	NTU	0.10	0.10	NE	0.43	--	50	75
Methyl ethyl ketone	Quarterly	EPA 8260B	µg/L	0.48	10	NE	<0.48	--	50	NE
Other Priority Pollutants	Quarterly ^e	--	--	--	--	--	--	--	NE	NE

Notes:

^a ML is the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. It is also the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method-specified sample weights, volumes, and processing steps have been followed.

^b California Regional Water Quality Control Board Waste Discharge Requirements (WDRs).

^c The highest MDL and RL during this reporting period are shown.

^d There are no dry weather limitations for zinc.

^e Effluent monitoring will occur quarterly for the first 2 years after the Order is adopted. After the first 2 years, effluent will be monitored once per year.

-- = not measured or not analyzed

< = not detected above the MDL

° F = degrees Fahrenheit

µg/L = micrograms per liter

J = detected at a concentration below the RL and above the MDL.

Reported value is estimated.

MDL = laboratory method detection limit

mg/L = milligrams per liter

ML = minimum level. See note a.

mL/L/hr = milliliters per liter per hour

NE = not established

Figures

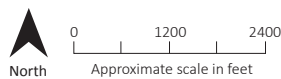
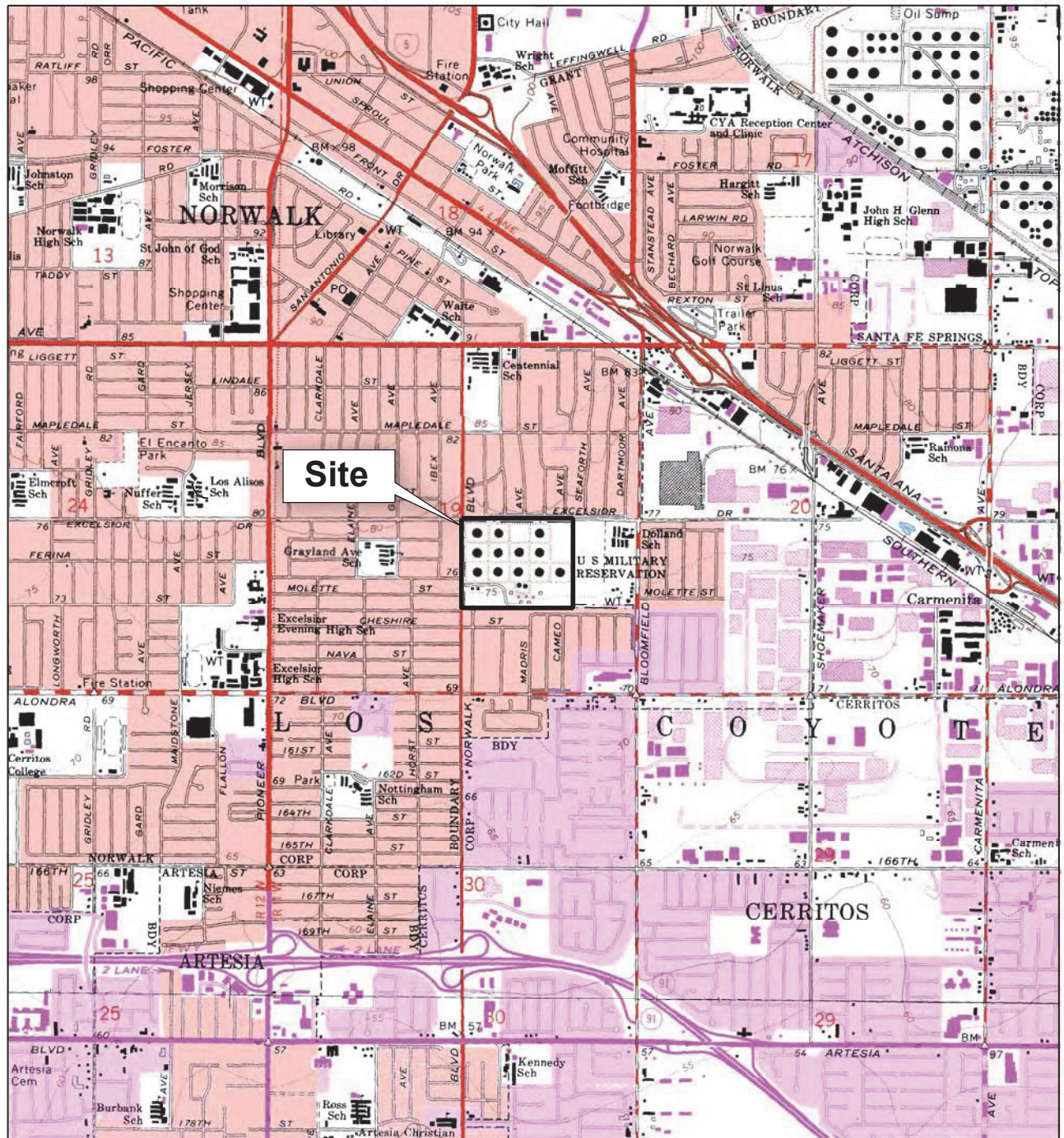
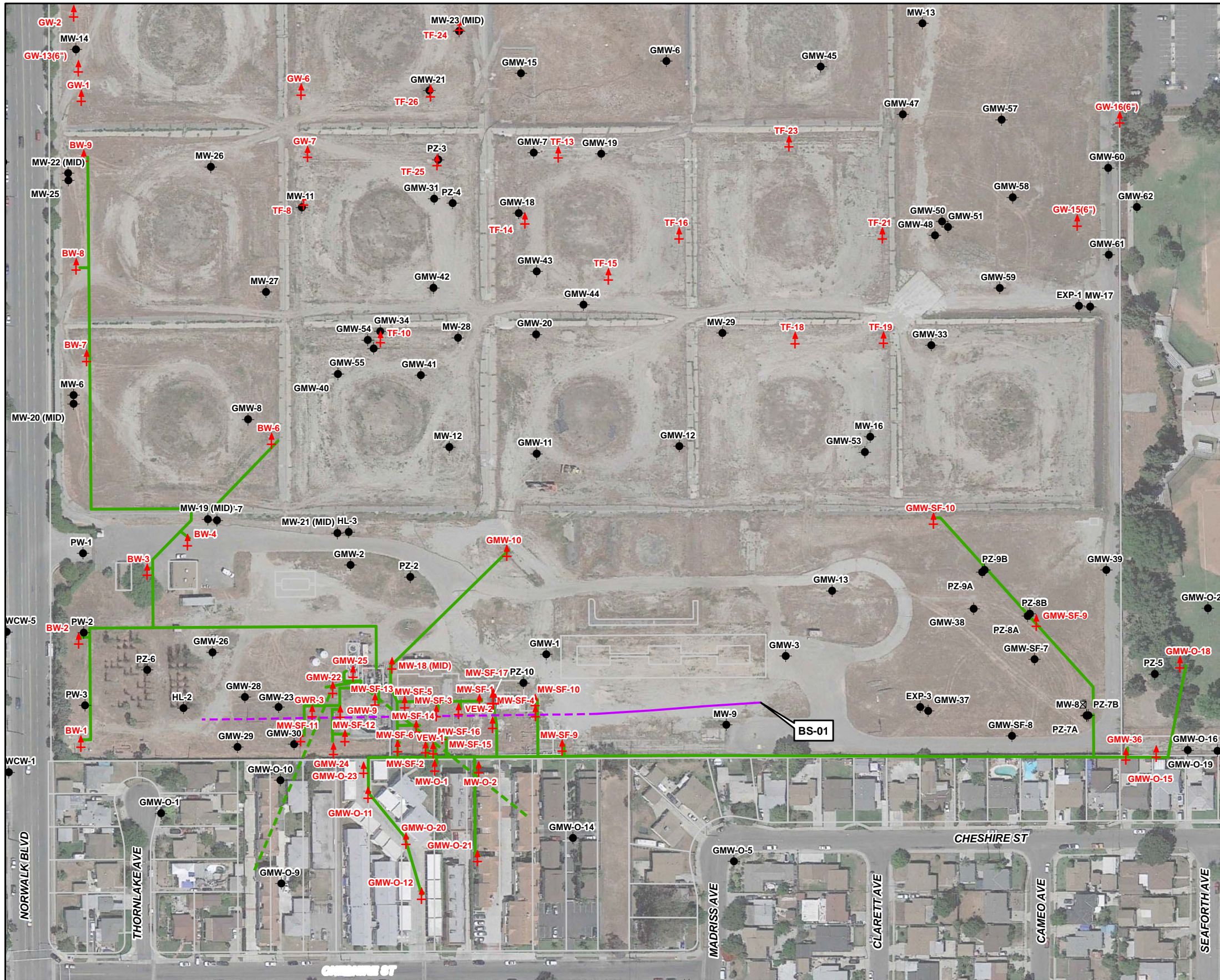


Figure 1
Site Location Map
SFPP Norwalk Pump Station
Norwalk, California

BASEMAP MODIFIED FROM U.S.G.S. 7.5 MINUTE QUADRANGLE MAP
 LOS ALAMITOS 1964, CALIFORNIA. PHOTO-REVISED 1981.
 WHITTIER 1965, CALIFORNIA. PHOTO-REVISED 1981.



Legend

- Existing Groundwater Monitoring Well
- ⊕ Existing Remediation Well
- Horizontal Biosparge Well
(dashed line depicts approximate lateral extent of well screen)
- KMEP Remediation Piping Layout
(above ground and below ground)
- - - Horizontal Vapor Extraction Well Piping

Imagery Source:
Google Earth April 17, 2013.

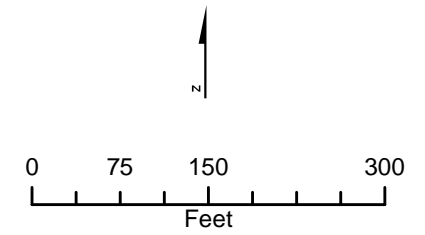


Figure 2
Remediation System Layout
SFPP Norwalk Pump Station
Norwalk, California



Appendix A
Laboratory Analytical Reports and
Chain-of-Custody Documents

September 27, 2016

Dan Jablonski
CH2MHill
1000 Wilshire Blvd.
Los Angeles, CA 90017

TEL:

FAX:

Workorder No.: N020998

RE: SFPP - Norwalk Site

Attention: Dan Jablonski

Enclosed are the results for sample(s) received on September 20, 2016 by ASSET Laboratories .
The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in
accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Nancy Sibucaw for

Puri Romualdo
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in
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ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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CALIFORNIA | P:562.219.7435 F:562.219.7436
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
ELAP Cert 2921
EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2676 | NV Cert NV00922
ORELAP/NELAP Cert 4046

CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N020998

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Subcontracted Analyses:

Ammonia and MBAS were subcontracted to BC Labs- Bakersfield,CA.

Analytical Comments for EPA 200.8:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N020998-001H-MS and N020998-001H-MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 8260B:

RPD for Laboratory Control Sample (LCS)/Laboratory Control Sample (LCSD) is outside criteria for Tert-Butanol. Analyte recoveries on both met acceptance criteria.



CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N020998
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N020998-001A	EFF-09-20	Wastewater	9/20/2016 12:00:00 PM	9/20/2016	9/27/2016
N020998-001B	EFF-09-20	Wastewater	9/20/2016 12:00:00 PM	9/20/2016	9/27/2016
N020998-001C	EFF-09-20	Wastewater	9/20/2016 12:00:00 PM	9/20/2016	9/27/2016
N020998-001D	EFF-09-20	Wastewater	9/20/2016 12:00:00 PM	9/20/2016	9/27/2016
N020998-001E	EFF-09-20	Wastewater	9/20/2016 12:00:00 PM	9/20/2016	9/27/2016
N020998-001F	EFF-09-20	Wastewater	9/20/2016 12:00:00 PM	9/20/2016	9/27/2016
N020998-001G	EFF-09-20	Wastewater	9/20/2016 12:00:00 PM	9/20/2016	9/27/2016
N020998-001H	EFF-09-20	Wastewater	9/20/2016 12:00:00 PM	9/20/2016	9/27/2016
N020998-001I	EFF-09-20	Wastewater	9/20/2016 12:00:00 PM	9/20/2016	9/27/2016
N020998-001J	EFF-09-20	Wastewater	9/20/2016 12:00:00 PM	9/20/2016	9/27/2016
N020998-001K	EFF-09-20	Wastewater	9/20/2016 12:00:00 PM	9/20/2016	9/27/2016
N020998-001L	EFF-09-20	Wastewater	9/20/2016 12:00:00 PM	9/20/2016	9/27/2016



ANALYTICAL RESULTS

Print Date: 27-Sep-16

ASSET Laboratories

CLIENT: CH2MHill
Lab Order: N020998
Project: SFPP - Norwalk Site
Lab ID: N020998-001

Client Sample ID: EFF-09-20
Collection Date: 9/20/2016 12:00:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TOTAL NON-FILTERABLE RESIDUE

SM2540D

RunID: CA01638-WC01_160921A	QC Batch: 59718	PrepDate: 9/21/2016	Analyst: RB
Suspended Solids (Residue, Non-Filterable)	ND 10	10	mg/L 1
			9/21/2016

SETTLABLE MATTER

SM2540F

RunID: CA01638-WC01_160921B	QC Batch: 59719	PrepDate: 9/21/2016	Analyst: RB
Settleable Matter	ND 0.10	0.10	ml/L 1
			9/21/2016

HEXANE EXTRACTABLE MATERIAL (HEM)

EPA 1664 _HEM REV B

RunID: WETCHEM_160926F	QC Batch: 59766	PrepDate: 9/26/2016	Analyst: LR
Oil & Grease	1.5 0.70	4.3	J mg/L 1
			9/26/2016 01:07 PM

TURBIDITY

SM 2130B

RunID: WETCHEM_160921B	QC Batch: R110629	PrepDate:	Analyst: LR
Turbidity	0.43 0.10	0.10	NTU 1
			9/21/2016 09:15 AM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3510C

EPA 8270C

RunID: MS9_160926A	QC Batch: 59763	PrepDate: 9/26/2016	Analyst: MDM
Phenol	ND 0.33	2.0	µg/L 1
Surr: 1,2-Dichlorobenzene-d4	62.0 0	16-120	%REC 1
Surr: 2-Fluorobiphenyl	61.0 0	25-120	%REC 1
Surr: 4-Terphenyl-d14	93.0 0	46-132	%REC 1
Surr: Phenol-d5	41.0 0	15-120	%REC 1

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: CA01638-MS08_160920A	QC Batch: CA16VW008	PrepDate:	Analyst: RB
1,1-Dichloroethane	ND 0.022	0.50	ug/L 1
1,2-Dichloroethane	ND 0.064	0.50	ug/L 1
2-Butanone	ND 0.48	10	ug/L 1
Benzene	ND 0.036	1.0	ug/L 1
Di-isopropyl ether	ND 0.017	1.0	ug/L 1
Ethylbenzene	ND 0.036	1.0	ug/L 1
m,p-Xylene	0.070 0.024	1.0	J ug/L 1

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Results are wet unless otherwise specified	E Value above quantitation range J Analyte detected below quantitation limits S Spike/Surrogate outside of limits due to matrix interference DO Surrogate Diluted Out
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ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P:562.219.7435 F:562.219.7436
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691
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"Servina Clients with Passion and Professionalism"

ANALYTICAL RESULTS

Print Date: 27-Sep-16

ASSET Laboratories

CLIENT: CH2MHill
Lab Order: N020998
Project: SFPP - Norwalk Site
Lab ID: N020998-001

Client Sample ID: EFF-09-20
Collection Date: 9/20/2016 12:00:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: CA01638-MS08_160920A	QC Batch: CA16VW008	PrepDate:	Analyst: RB			
MTBE	ND	0.062	1.0	ug/L	1	9/20/2016 09:45 PM
o-Xylene	ND	0.042	1.0	ug/L	1	9/20/2016 09:45 PM
Tert-amyl methyl ether	ND	0.039	1.0	ug/L	1	9/20/2016 09:45 PM
Tert-Butanol	ND	0.30	5.0	ug/L	1	9/20/2016 09:45 PM
Toluene	ND	0.042	2.0	ug/L	1	9/20/2016 09:45 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	9/20/2016 09:45 PM
Surr: 1,2-Dichloroethane-d4	102	0	72-119	%REC	1	9/20/2016 09:45 PM
Surr: 4-Bromofluorobenzene	99.8	0	76-119	%REC	1	9/20/2016 09:45 PM
Surr: Dibromofluoromethane	101	0	85-115	%REC	1	9/20/2016 09:45 PM
Surr: Toluene-d8	103	0	81-120	%REC	1	9/20/2016 09:45 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: GC3_160922C	QC Batch: 59728	PrepDate: 9/22/2016	Analyst: FJ			
TPH-Diesel (C13-C22)	ND	16	26	ug/L	1	9/22/2016 11:12 PM
TPH-Oil (C23-C36)	18	14	26	J	1	9/22/2016 11:12 PM
Surr: Octacosane	77.6	0	26-152	%REC	1	9/22/2016 11:12 PM
Surr: p-Terphenyl	82.7	0	57-132	%REC	1	9/22/2016 11:12 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_160923A	QC Batch: E16VW061	PrepDate:	Analyst: QBM			
TPH-Gasoline (C4-C12)	ND	16	50	ug/L	1	9/23/2016 11:53 AM
Surr: Chlorobenzene - d5	120	0	74-138	%REC	1	9/23/2016 11:53 AM

HEXAVALENT CHROMIUM BY IC

EPA 7199

RunID: IC7_160921A	QC Batch: R110661	PrepDate:	Analyst: QBM			
Hexavalent Chromium	ND	0.066	0.20	µg/L	1	9/21/2016 10:09 AM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 245.1

RunID: AA1_160921A	QC Batch: 59701	PrepDate: 9/21/2016	Analyst: CEI			
Mercury	ND	0.018	0.050	µg/L	1	9/21/2016 02:35 PM

<p>Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Results are wet unless otherwise specified</p>	<p>E Value above quantitation range J Analyte detected below quantitation limits S Spike/Surrogate outside of limits due to matrix interference DO Surrogate Diluted Out</p>
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ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 27-Sep-16

CLIENT: CH2MHill
Lab Order: N020998
Project: SFPP - Norwalk Site
Lab ID: N020998-001

Client Sample ID: EFF-09-20
Collection Date: 9/20/2016 12:00:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TOTAL METALS BY COLLISION/REACTION CELL ICPMS

EPA 200.8

RunID: ICP7_160921B	QC Batch: 59704				PrepDate: 9/21/2016		Analyst: CEI
Selenium	0.11	0.070	0.50	J	µg/L	1	9/21/2016 03:47 PM

TOTAL METALS BY ICPMS

EPA 200.8

RunID: ICP7_160921B	QC Batch: 59704				PrepDate: 9/21/2016		Analyst: CEI
Copper	ND	0.26	0.50		µg/L	1	9/21/2016 03:47 PM
Lead	ND	0.053	0.50		µg/L	1	9/21/2016 03:47 PM
Thallium	0.091	0.034	0.50	J	µg/L	1	9/21/2016 03:47 PM
Zinc	1.3	0.039	10	J	µg/L	1	9/21/2016 03:47 PM

TOTAL TPH

EPA 8015B

RunID: GC3_160922C	QC Batch: R110692				PrepDate:		Analyst: FJ
Total TPH	18	16	50	J	ug/L	1	9/22/2016

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out



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"Servina Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: MB-59718	SampType: MBLK	TestCode: 160.2_2540D_ Units: mg/L	Prep Date: 9/21/2016	RunNo: 110637							
Client ID: PBW	Batch ID: 59718	TestNo: SM2540D	Analysis Date: 9/21/2016	SeqNo: 2430443							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Sample ID: LCS-59718	SampType: LCS	TestCode: 160.2_2540D_ Units: mg/L	Prep Date: 9/21/2016	RunNo: 110637							
Client ID: LCSW	Batch ID: 59718	TestNo: SM2540D	Analysis Date: 9/21/2016	SeqNo: 2430447							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	1009.000	10	1000	0	101	80	120				

Sample ID: N021020-001ADUP	SampType: DUP	TestCode: 160.2_2540D_ Units: mg/L	Prep Date: 9/21/2016	RunNo: 110637							
Client ID: ZZZZZ	Batch ID: 59718	TestNo: SM2540D	Analysis Date: 9/21/2016	SeqNo: 2430450							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10						0	0	5	

Qualifiers:

- B Analyte detected in the associated Method Blank
 - J Analyte detected below quantitation limits
 - S Spike/Surrogate outside of limits due to matrix interference
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - H Holding times for preparation or analysis exceeded
 - R RPD outside accepted recovery limits
- Calculations are based on raw values



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 EPA ID CA01638

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 3151 W. Post Rd., Las Vegas, NV 89118
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CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.5_2540F_W

Sample ID: MB-59719	SampType: MBLK	TestCode: 160.5_2540F_ Units: m/L	Prep Date: 9/21/2016	RunNo: 110638							
Client ID: PBW	Batch ID: 59719	TestNo: SM2540F	Analysis Date: 9/21/2016	SeqNo: 2430455							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Settleable Matter	ND	0.10									

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

[NEVADA](#) | P: 702.307.2659 | F: 702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
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CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_HEM_W

Sample ID: MB-59766	SampType: MBLK	TestCode: 1664_HEM_W Units: mg/L	Prep Date: 9/26/2016	RunNo: 110756							
Client ID: PBW	Batch ID: 59766	TestNo: EPA 1664_H	Analysis Date: 9/26/2016	SeqNo: 2433438							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	ND	4.0									
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Sample ID: LCS-59766	SampType: LCS	TestCode: 1664_HEM_W Units: mg/L	Prep Date: 9/26/2016	RunNo: 110756							
Client ID: LCSW	Batch ID: 59766	TestNo: EPA 1664_H	Analysis Date: 9/26/2016	SeqNo: 2433439							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	32.100	4.0	40.00	0	80.3	78	114				
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Sample ID: N020998-001AMS	SampType: MS	TestCode: 1664_HEM_W Units: mg/L	Prep Date: 9/26/2016	RunNo: 110756							
Client ID: ZZZZZ	Batch ID: 59766	TestNo: EPA 1664_H	Analysis Date: 9/26/2016	SeqNo: 2433441							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	36.413	4.3	43.48	1.505	80.3	78	114				
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Sample ID: N020998-001AMSD	SampType: MSD	TestCode: 1664_HEM_W Units: mg/L	Prep Date: 9/26/2016	RunNo: 110756							
Client ID: ZZZZZ	Batch ID: 59766	TestNo: EPA 1664_H	Analysis Date: 9/26/2016	SeqNo: 2433442							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	37.065	4.3	43.48	1.505	81.8	78	114	36.41	1.78	18	
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Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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CALIFORNIA | P: 562.219.7435 | F: 562.219.7436
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
ELAP Cert 2921
EPA ID CA01638

NEVADA | P: 702.307.2659 | F: 702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_DRC

Sample ID: MB-59704	SampType: MBLK	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 9/21/2016	RunNo: 110644						
Client ID: PBW	Batch ID: 59704	TestNo: EPA 200.8		Analysis Date: 9/21/2016	SeqNo: 2429911						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	ND	0.50									
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Sample ID: LCS-59704	SampType: LCS	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 9/21/2016	RunNo: 110644						
Client ID: LCSW	Batch ID: 59704	TestNo: EPA 200.8		Analysis Date: 9/21/2016	SeqNo: 2429912						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	9.950	0.50	10.00	0	99.5	85	115				
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Sample ID: N020998-001H-MS	SampType: MS	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 9/21/2016	RunNo: 110644						
Client ID: ZZZZZ	Batch ID: 59704	TestNo: EPA 200.8		Analysis Date: 9/21/2016	SeqNo: 2429916						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	7.350	0.50	10.00	0.1133	72.4	75	125				S
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Sample ID: N020998-001H-MSD	SampType: MSD	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 9/21/2016	RunNo: 110644						
Client ID: ZZZZZ	Batch ID: 59704	TestNo: EPA 200.8		Analysis Date: 9/21/2016	SeqNo: 2429919						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	7.947	0.50	10.00	0.1133	78.3	75	125	7.350	7.80	20	
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Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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CALIFORNIA | P:562.219.7435 | F:562.219.7436
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 ELAP Cert 2921
 EPA ID CA01638

NEVADA | P:702.307.2659 | F:702.307.2691
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: MB-59704	SampType: MBLK	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 9/21/2016	RunNo: 110644							
Client ID: PBW	Batch ID: 59704	TestNo: EPA 200.8	Analysis Date: 9/21/2016	SeqNo: 2429947							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.50									
Lead	ND	0.50									
Thallium	ND	0.50									
Zinc	ND	10									

Sample ID: LCS-59704	SampType: LCS	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 9/21/2016	RunNo: 110644							
Client ID: LCSW	Batch ID: 59704	TestNo: EPA 200.8	Analysis Date: 9/21/2016	SeqNo: 2429948							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	10.328	0.50	10.00	0	103	85	115				
Lead	10.456	0.50	10.00	0	105	85	115				
Thallium	10.099	0.50	10.00	0	101	85	115				
Zinc	106.765	10	100.0	0	107	85	115				

Sample ID: N020998-001H-MS	SampType: MS	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 9/21/2016	RunNo: 110644							
Client ID: ZZZZZ	Batch ID: 59704	TestNo: EPA 200.8	Analysis Date: 9/21/2016	SeqNo: 2429952							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	6.364	0.50	10.00	0	63.6	75	125				S
Lead	8.200	0.50	10.00	0	82.0	75	125				
Thallium	8.374	0.50	10.00	0.09120	82.8	75	125				
Zinc	72.078	10	100.0	1.254	70.8	75	125				S

Sample ID: N020998-001H-MSD	SampType: MSD	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 9/21/2016	RunNo: 110644							
Client ID: ZZZZZ	Batch ID: 59704	TestNo: EPA 200.8	Analysis Date: 9/21/2016	SeqNo: 2429955							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	6.261	0.50	10.00	0	62.6	75	125	6.364	1.64	20	S
Lead	8.219	0.50	10.00	0	82.2	75	125	8.200	0.230	20	

Qualifiers:

- | | | |
|--|--|--|
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| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: N020998-001H-MSD		SampType: MSD		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 9/21/2016		RunNo: 110644		
Client ID: ZZZZZZ		Batch ID: 59704		TestNo: EPA 200.8			Analysis Date: 9/21/2016		SeqNo: 2429955		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	8.285	0.50	10.00	0.09120	81.9	75	125	8.374	1.07	20	
Zinc	72.149	10	100.0	1.254	70.9	75	125	72.08	0.0982	20	S

Qualifiers:

- | | | |
|--|--|--|
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 2130_W

Sample ID: MB-R110629	SampType: MBLK	TestCode: 2130_W	Units: NTU	Prep Date:	RunNo: 110629						
Client ID: PBW	Batch ID: R110629	TestNo: SM 2130B		Analysis Date: 9/21/2016	SeqNo: 2429655						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	ND	0.10									

Sample ID: N020998-001EDUP	SampType: DUP	TestCode: 2130_W	Units: NTU	Prep Date:	RunNo: 110629						
Client ID: ZZZZZ	Batch ID: R110629	TestNo: SM 2130B		Analysis Date: 9/21/2016	SeqNo: 2429657						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	0.420	0.10						0.4300	2.35	30	

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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 EPA ID CA01638

[NEVADA](#) | P: 702.307.2659 | F: 702.307.2691
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: MB-59701	SampType: MBLK	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 9/21/2016	RunNo: 110632						
Client ID: PBW	Batch ID: 59701	TestNo: EPA 245.1		Analysis Date: 9/21/2016	SeqNo: 2429689						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050

Sample ID: LCS-59701	SampType: LCS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 9/21/2016	RunNo: 110632						
Client ID: LCSW	Batch ID: 59701	TestNo: EPA 245.1		Analysis Date: 9/21/2016	SeqNo: 2429690						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 5.137 0.050 5.000 0 103 85 115

Sample ID: N020998-001H-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 9/21/2016	RunNo: 110632						
Client ID: ZZZZZ	Batch ID: 59701	TestNo: EPA 245.1		Analysis Date: 9/21/2016	SeqNo: 2429691						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 5.313 0.050 5.000 0 106 75 125

Sample ID: N020998-001H-MSD	SampType: MSD	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 9/21/2016	RunNo: 110632						
Client ID: ZZZZZ	Batch ID: 59701	TestNo: EPA 245.1		Analysis Date: 9/21/2016	SeqNo: 2429692						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 5.204 0.050 5.000 0 104 75 125 5.313 2.07 20

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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CALIFORNIA | P:562.219.7435 F:562.219.7436
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_WPGE

Sample ID: MB-R110661	SampType: MBLK	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 110661						
Client ID: PBW	Batch ID: R110661	TestNo: EPA 7199		Analysis Date: 9/21/2016	SeqNo: 2430502						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.20									
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Sample ID: LCS-R110661	SampType: LCS	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 110661						
Client ID: LCSW	Batch ID: R110661	TestNo: EPA 7199		Analysis Date: 9/21/2016	SeqNo: 2430503						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.031	0.20	5.000	0	101	90	110				
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Sample ID: N020998-001DUP	SampType: DUP	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 110661						
Client ID: ZZZZZ	Batch ID: R110661	TestNo: EPA 7199		Analysis Date: 9/21/2016	SeqNo: 2430505						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.20						0	0	20	
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Sample ID: N020998-001IMS	SampType: MS	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 110661						
Client ID: ZZZZZ	Batch ID: R110661	TestNo: EPA 7199		Analysis Date: 9/21/2016	SeqNo: 2430506						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.014	0.20	1.000	0	101	85	115				
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Sample ID: N020998-001IMSD	SampType: MSD	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 110661						
Client ID: ZZZZZ	Batch ID: R110661	TestNo: EPA 7199		Analysis Date: 9/21/2016	SeqNo: 2430507						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.005	0.20	1.000	0	100	85	115	1.014	0.921	20	
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Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

NEVADA | P:702.307.2659 | F:702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
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CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-59728	SampType: MBLK	TestCode: 8015_W_FP_ Units: ug/L	Prep Date: 9/22/2016	RunNo: 110692							
Client ID: PBW	Batch ID: 59728	TestNo: EPA 8015B EPA 3510C	Analysis Date: 9/22/2016	SeqNo: 2431487							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	24.608	25									J
Surr: Octacosane	61.997		80.00		77.5	26	152				
Surr: p-Terphenyl	63.450		80.00		79.3	57	132				

Qualifiers:

- | | | |
|--|--|--|
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 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

[NEVADA](#) | P: 702.307.2659 | F: 702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NVO0922
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CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: E160923LCS	SampType: LCS	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 110712							
Client ID: LCSW	Batch ID: E16VW061	TestNo: EPA 8015B	Analysis Date: 9/23/2016	SeqNo: 2431943							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	967.000	50	1000	0	96.7	67	136				
Surr: Chlorobenzene - d5	52138.000		50000		104	74	138				

Sample ID: E160923MB2	SampType: MBLK	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 110712							
Client ID: PBW	Batch ID: E16VW061	TestNo: EPA 8015B	Analysis Date: 9/23/2016	SeqNo: 2431945							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	ND	50									
Surr: Chlorobenzene - d5	57927.000		50000		116	74	138				

Sample ID: N020998-001BDUP	SampType: DUP	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 110712							
Client ID: ZZZZZ	Batch ID: E16VW061	TestNo: EPA 8015B	Analysis Date: 9/23/2016	SeqNo: 2431947							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	ND	50						0	0	0	
Surr: Chlorobenzene - d5	60344.000		50000		121	74	138		0	0	

Sample ID: N020998-001BMS	SampType: MS	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 110712							
Client ID: ZZZZZ	Batch ID: E16VW061	TestNo: EPA 8015B	Analysis Date: 9/23/2016	SeqNo: 2431949							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	915.000	50	1000	0	91.5	67	136				
Surr: Chlorobenzene - d5	54459.000		50000		109	74	138				

Sample ID: N020998-001BMSD	SampType: MSD	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 110712							
Client ID: ZZZZZ	Batch ID: E16VW061	TestNo: EPA 8015B	Analysis Date: 9/23/2016	SeqNo: 2431950							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	932.000	50	1000	0	93.2	67	136	915.0	1.84	30	
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Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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CALIFORNIA | P: 562.219.7435 | F: 562.219.7436
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

NEVADA | P: 702.307.2659 | F: 702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
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CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: N020998-001BMSD	SampType: MSD	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 110712						
Client ID: ZZZZZZ	Batch ID: E16VW061	TestNo: EPA 8015B		Analysis Date: 9/23/2016	SeqNo: 2431950						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	55652.000		50000		111	74	138		0	0	

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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 EPA ID CA01638

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CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: CA160920LCS		SampType: LCS		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 110595		
Client ID: LCSW		Batch ID: CA16VW008		TestNo: EPA 8260B				Analysis Date: 9/20/2016		SeqNo: 2429081		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethane	19.670	0.50	20.00	0	98.4	69	133					
1,2-Dichloroethane	20.170	0.50	20.00	0	101	69	132					
2-Butanone	205.180	10	200.0	0	103	49	136					
Benzene	20.530	1.0	20.00	0	103	81	122					
Di-isopropyl ether	20.710	1.0	20.00	0	104	70	130					
Ethylbenzene	20.500	1.0	20.00	0	103	73	127					
m,p-Xylene	43.020	1.0	40.00	0	108	76	128					
MTBE	19.280	1.0	20.00	0	96.4	65	123					
o-Xylene	21.420	1.0	20.00	0	107	80	121					
Tert-amyl methyl ether	20.690	1.0	20.00	0	103	70	130					
Tert-Butanol	105.430	5.0	100.0	0	105	70	130					
Toluene	20.070	2.0	20.00	0	100	77	122					
Xylenes, Total	64.440	2.0	60.00	0	107	75	125					
Surr: 1,2-Dichloroethane-d4	24.200		25.00		96.8	72	119					
Surr: 4-Bromofluorobenzene	26.360		25.00		105	76	119					
Surr: Dibromofluoromethane	23.940		25.00		95.8	85	115					
Surr: Toluene-d8	25.340		25.00		101	81	120					

Sample ID: CA160920LCS D		SampType: LCS D		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 110595		
Client ID: LCS S02		Batch ID: CA16VW008		TestNo: EPA 8260B				Analysis Date: 9/20/2016		SeqNo: 2429082		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethane	19.720	0.50	20.00	0	98.6	69	133	19.67	0.254	20		
1,2-Dichloroethane	19.950	0.50	20.00	0	99.8	69	132	20.17	1.10	20		
2-Butanone	214.560	10	200.0	0	107	49	136	205.2	4.47	20		
Benzene	20.240	1.0	20.00	0	101	81	122	20.53	1.42	20		
Di-isopropyl ether	20.760	1.0	20.00	0	104	70	130	20.71	0.241	20		
Ethylbenzene	20.310	1.0	20.00	0	102	73	127	20.50	0.931	20		
m,p-Xylene	42.060	1.0	40.00	0	105	76	128	43.02	2.26	20		
MTBE	19.220	1.0	20.00	0	96.1	65	123	19.28	0.312	20		

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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11110 Artesia Blvd., Ste B, Cerritos, CA 90703
ELAP Cert 2921
EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
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CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: CA160920LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 110595						
Client ID: LCSS02	Batch ID: CA16VW008	TestNo: EPA 8260B		Analysis Date: 9/20/2016	SeqNo: 2429082						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	20.750	1.0	20.00	0	104	80	121	21.42	3.18	20	
Tert-amyl methyl ether	20.590	1.0	20.00	0	103	70	130	20.69	0.484	20	
Tert-Butanol	79.400	5.0	100.0	0	79.4	70	130	105.4	28.2	20	R
Toluene	19.790	2.0	20.00	0	99.0	77	122	20.07	1.40	20	
Xylenes, Total	62.810	2.0	60.00	0	105	75	125	64.44	2.56	20	
Surr: 1,2-Dichloroethane-d4	24.250		25.00		97.0	72	119		0		
Surr: 4-Bromofluorobenzene	26.510		25.00		106	76	119		0		
Surr: Dibromofluoromethane	23.920		25.00		95.7	85	115		0		
Surr: Toluene-d8	25.470		25.00		102	81	120		0		

Sample ID: CA160920MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 110595						
Client ID: PBW	Batch ID: CA16VW008	TestNo: EPA 8260B		Analysis Date: 9/20/2016	SeqNo: 2429085						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	ND	0.50									
1,2-Dichloroethane	ND	0.50									
2-Butanone	ND	10									
Benzene	ND	1.0									
Di-isopropyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
m,p-Xylene	0.150	1.0									J
MTBE	ND	1.0									
o-Xylene	0.090	1.0									J
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
Toluene	0.110	2.0									J
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	25.420		25.00		102	72	119				
Surr: 4-Bromofluorobenzene	24.990		25.00		100	76	119				
Surr: Dibromofluoromethane	24.440		25.00		97.8	85	115				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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Work Order: N020998
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: CA160920MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 110595						
Client ID: PBW	Batch ID: CA16VW008	TestNo: EPA 8260B		Analysis Date: 9/20/2016	SeqNo: 2429085						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	25.380		25.00		102	81	120				

Qualifiers:

- | | | |
|--|--|--|
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[CALIFORNIA](#) | P: 562.219.7435 | F: 562.219.7436
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

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CLIENT: CH2MHill
Work Order: N020998
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID: LCS-59763		SampType: LCS		TestCode: 8270WATER_ Units: µg/L		Prep Date: 9/26/2016		RunNo: 110746			
Client ID: LCSW		Batch ID: 59763		TestNo: EPA 8270C EPA 3510C		Analysis Date: 9/26/2016		SeqNo: 2433130			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	1.710	2.0	4.000	0	42.8	24	120				J
Surr: 1,2-Dichlorobenzene-d4	0.570		1.000		57.0	16	120				
Surr: 2-Fluorobiphenyl	0.580		1.000		58.0	25	120				
Surr: 4-Terphenyl-d14	1.020		1.000		102	46	132				
Surr: Phenol-d5	0.530		1.000		53.0	15	120				

Sample ID: LCSD-59763		SampType: LCSD		TestCode: 8270WATER_ Units: µg/L		Prep Date: 9/26/2016		RunNo: 110746			
Client ID: LCSS02		Batch ID: 59763		TestNo: EPA 8270C EPA 3510C		Analysis Date: 9/26/2016		SeqNo: 2433131			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	1.620	2.0	4.000	0	40.5	24	120	1.710	0	20	J
Surr: 1,2-Dichlorobenzene-d4	0.560		1.000		56.0	16	120		0		
Surr: 2-Fluorobiphenyl	0.640		1.000		64.0	25	120		0		
Surr: 4-Terphenyl-d14	1.010		1.000		101	46	132		0		
Surr: Phenol-d5	0.550		1.000		55.0	15	120		0		

Sample ID: MB-59763		SampType: MBLK		TestCode: 8270WATER_ Units: µg/L		Prep Date: 9/26/2016		RunNo: 110746			
Client ID: PBW		Batch ID: 59763		TestNo: EPA 8270C EPA 3510C		Analysis Date: 9/26/2016		SeqNo: 2433132			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	2.0									
Surr: 1,2-Dichlorobenzene-d4	0.420		1.000		42.0	16	120				
Surr: 2-Fluorobiphenyl	0.430		1.000		43.0	25	120				
Surr: 4-Terphenyl-d14	0.730		1.000		73.0	46	132				
Surr: Phenol-d5	0.380		1.000		38.0	15	120				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENTAL INDUSTRY

CALIFORNIA | P: 562.219.7435 F: 562.219.7436
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
ELAP Cert 2921
EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2676 | NV Cert NVO0922
ORELAP/NELAP Cert 4046

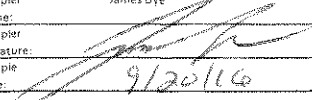
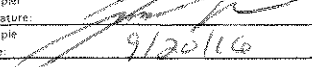
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N020998

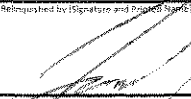
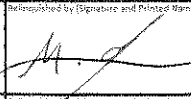
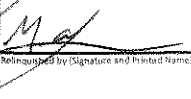

Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
Tel: 702-307-2659 Fax: 702-307-2691
Marlon Cartin (marlon@atl-labs.com)

CHAIN OF CUSTODY RECORD

DATE: 9/20/16
PAGE: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Section D Sampler Information:	
Company: Kinder Morgan Energy Partners Attention: Steve Defibaugh		Report To: Dan Jablonski		Attention: Steve Defibaugh - Ref. AFER 81195		Sampler: James Dye	
Address: 1100 Town & Country Road Orange, CA 92868		Copy To: Steve Defibaugh		Company Name: Kinder Morgan Energy Partners		Name: 	
Email To: steve.defibaugh@kindermorgan.com dan.jablonski@atl-labs.com		Purchase Order No.:		Address: 1100 Town & Country Road Orange, CA 92868		Sampler Signature: 	
Phone: 714-560-4802 Fax: 714-560-4801		Project Name: SFPP Norwalk		ATL Project Manager: Marlon Cartin		Sample Date: 9/20/16	

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G-GARB, C-COMP)	CONTAINER TYPE		TOTAL # OF CONTAINERS	SAMPLE TEMPERATURE (°F)	Analysis Test																Comments					
					# OF CONTAINERS	PRESERVATIVE			J	A	P	P	A	V	V	P	P	P	V	P	P									
					VOLUME (mL)	VOLUME (mL)			1000	1000	1000	1000	1000	40	40	500	500	250	500	40	1000	1000								
					DATE	TIME			Oil & Grease (1664)	TPH-g, TPH-d, and TPH-oil (80156)	Settleable Solids (867546F)	Total Suspended Solids (SW2540D)	Phenol (8270)	BTEX, 1,1-DCA, 1,2-DCA (8260B)	MTBE and TBA, (8260B); 48HR TAT	Cu, Pb, Se, B, and Zn (206.8); 48 Hr TAT	Hg (245.1); 48 Hr TAT	C-VI (7199)	Ammonia Nitrogen (as N) (SM-950 NH3C)	DIPE, TAME, and MEK (8260B)	NBAK (SM 5340C)	Turbidity (SM21.90B)								
1	EFF- 01-52	EFFLUENT	WW	G			9/20/16 12:00	19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
																40c 2.2°C @ LV Lab.														
																N020998 - 01														
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Requisitioned by (Signature and Printed Name):  Date / Time: 9/20/16 12:59	Requisitioned by (Signature and Printed Name):  Date / Time: 9/20/16 15:15	Turn Around Time (TAT): <input type="checkbox"/> A = Same Day <input type="checkbox"/> B = 24 Hours <input checked="" type="checkbox"/> C = 48 Hours <input type="checkbox"/> D = 72 Hours <input checked="" type="checkbox"/> E = 5 Workdays <input type="checkbox"/> F = 10 Workdays TAT Starts at 8 AM the following day if samples received after 3:00 PM.	Special instruction:
Requisitioned by (Signature and Printed Name):  Date / Time: 9/20/16 15:42	Requisitioned by (Signature and Printed Name):  Date / Time: 9/21/16 7:43		

Matrix:			Preservatives:				Container Type:		
W = Water	WW = Wastewater		H = HCl	N = HNO3	S = H2SO4	T = Tube	V = VOA	P = Pint	
O = Oil	P = Product	S = Soil	Z = Zn(AC)2	D = NaOH	T = Na2S2O3	A = Amber Glass	B = Tedlar	J = Jar	
Others/Specify:			Others/Specify:				M = Metal	P = Plastic	C = Can

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 9/20/2016 Workorder: N020998
 Rep sample Temp (Deg C): 4/2.2 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 3392 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/>
Yes <input type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>
NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: YR YR 9/21/2016

Reviewed By: [Signature] 9/21/2016

ASSET Laboratories

WORK ORDER Summary

21-Sep-16

WorkOrder: N020998

Client ID: CH2HI03

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 9/20/2016

Comments: Report to D. Jablonski/CH2M HILL, cc:KMEP

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N020998-001A	EFF-09-20	9/20/2016 12:00:00 PM	9/27/2016	Wastewater		Oil and Grease Sample Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/27/2016		EPA 1664 _HEM Dov. P.	Hexane Extractable Material (HEM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N020998-001B			9/27/2016		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N020998-001C			9/27/2016		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/27/2016		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/27/2016		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N020998-001D			9/27/2016		SM2540F	SETTLEABLE MATTER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/27/2016			Setteable Matter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N020998-001E			9/27/2016		SM2540D	TOTAL NON-FILTERABLE RESIDUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/27/2016			Total Suspended Solids Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/27/2016		SM 2130B	TURBIDITY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N020998-001F			9/27/2016		EPA 420.4	PHENOLICS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N020998-001G			9/22/2016		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N020998-001H			9/22/2016			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/22/2016		EPA 200.8	TOTAL METALS BY COLLISION/REACTION CELL ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/22/2016		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/22/2016		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/22/2016			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N020998-001I			9/27/2016		EPA 7199	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N020998-001J			9/27/2016		SM4500-NH3C	AMMONIA-N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB

ASSET Laboratories

WORK ORDER Summary

21-Sep-16

WorkOrder: N020998

Client ID: CH2HI03

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 9/20/2016

Comments: Report to D. Jablonski/CH2M HILL, cc:KMEP

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N020998-001K	EFF-09-20	9/20/2016 12:00:00 PM	9/27/2016	Wastewater	SM 5540 C	SURFACTANTS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N020998-001L			9/22/2016		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/22/2016		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N020998-002A	FOLDER		9/22/2016		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



ASSET Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118

www.atl-labs.com

TEL: 7023072659

FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

BC Labs
4100 Atlas Court
Bakersfield, CA 93308

TEL: (661) 327-4911
FAX: (661) 327-1918
Acct #:

Field Sampler: James Dye

21-Sep-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				SM 5540 C	SM4500-NH3C
N020998-001J / EFF-09-20	Wastewater	9/20/2016 12:00:00 PM	16OZP		1
N020998-001K / EFF-09-20	Wastewater	9/20/2016 12:00:00 PM	32OZP	1	

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N20998A Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Molky at (562)-219-7435. Please e-mail results to reports@assetlaboratories.com by: Normal TAT.

Please analyze for Ammonia and MBAs. CH2M Hill Samples

	Date/Time		Date/Time
Relinquished by: _____	9/21/2016	Received by: _____	
Relinquished by: _____		Received by: _____	



CHAIN OF CUSTODY RECORD

Page 1 of 1

Client: Asset Labs		Report to:		Bill to:		EDD Requirement		QA/QC		Sample Receipt Condition							
Address:		Company:		Address:		Excel EDD <input type="checkbox"/>		RTNE <input type="checkbox"/>		Y N							
Address:		Email:		Address:		Geotracker <input type="checkbox"/>		RWQCB <input type="checkbox"/>		1. Chilled <input type="checkbox"/>							
Phone: Fax:		Address:		Email to: PO#		Labspec <input type="checkbox"/>		CalTrans <input type="checkbox"/>		2. Headspace <input type="checkbox"/>							
Submitted By: Molky Bar		Address:		Phone: Fax:		Others <input type="checkbox"/>		Level III <input type="checkbox"/>		3. Container Intact <input type="checkbox"/>							
Title:		Phone: Fax:		Email to: PO#		Specify:		LEVEL IV <input type="checkbox"/>		4. Seal Present <input type="checkbox"/>							
Signature: Date:		Sampler's Signature and Date:		Phone: Fax:		Global ID:		Regulatory <input type="checkbox"/>		5. IR number							
I hereby authorize ASSET Labs to perform the tests indicated below:		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.		Matrix		Analyses Requested						Specify State: 6. Method of Cooling					
Project Name: SFPP Norwalk		Sampler's Name:		Ground <input type="checkbox"/> Sediment <input type="checkbox"/>		Phenol (8270) Ammonia MRAs						Sample Temp:					
Project Number:				Potable <input type="checkbox"/> Soil <input type="checkbox"/>								Turn Around Time		No. of container		Courier:	
				NPDES <input type="checkbox"/> Other Solid <input type="checkbox"/>								Container Type		PRESERVATION		Tracking No.	
				Surface <input type="checkbox"/>													

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	Remarks
1		EFF-09-20	9/20/16	1200	✓		X X X	E 3 P G
2								
3								
4								
5								
6								
7								
8								
9								
10								

Relinquished by (Signature and Printed Name): M.g. Date / Time: 9/20/16 15:50		Received by (Signature and Printed Name):		Date / Time:		Turn Around Time (TAT)		Special instruction:	
Relinquished by (Signature and Printed Name):		Received by (Signature and Printed Name):		Date / Time:		<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays TAT Starts at 8 AM the following day if samples received after 3:00 PM.			
Relinquished by (Signature and Printed Name):		Received by (Signature and Printed Name):		Date / Time:					

<p>Terms</p> <p>1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.</p> <p>2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis</p> <p>3. Custom EDD formats will be an additional 3% of the total project price.</p> <p>4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.</p>	<p>5. Trip Blanks and Equipment Blanks are billable sample.</p> <p>6. ASSET Laboratories is not responsible for samples collected using incorrect methodology.</p> <p>7. Terms are net 30 Days.</p> <p>8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.</p> <p>9. For subcontract analysis. TAT and Surcharges will vary.</p>	<p>Preservatives:</p> <p>H = HCl N = HNO3 S = H2SO4 C = 4°C</p> <p>Z = Zn(AC)2 O = NaOH T = Na2S2O3</p> <p>Others/Specify:</p>
<p>White = Laboratory Copy</p> <p>Yellow = Customer's Copy</p>		<p>Container Type:</p> <p>T = Tube V = VOA P = Pint</p> <p>J = Jar B = Tedlar G = Glass</p> <p>M = Metal P = Plastic C = Can</p>



800-322-5555 www.gso.com

Ship From
ASSET LABORATORIES
MOLKY BRAR
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Tracking #: 533353392

CPS



Ship To
ATL INC
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

LVS
LAS VEGAS

A

COD: \$0.00
Weight: 0 lb(s)
Reference:

C89102A

Delivery Instructions:
HOLD FOR PICK UP
Signature Type: REQUIRED



56747913

Print Date: 9/20/2016 4:16 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.

2.2⁰
JR #2



Date of Report: 09/27/2016

Molky Brar

ASSET Laboratories

3151-3153 W. Post Rd

Las Vegas, NV 89118

Client Project: SFPP Norwalk

BCL Project: Water Analysis

BCL Work Order: 1626388

Invoice ID: B247298

Enclosed are the results of analyses for samples received by the laboratory on 9/21/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



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1626388-01 - EFF-09-20

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Quality Control Reports

Water Analysis (General Chemistry)

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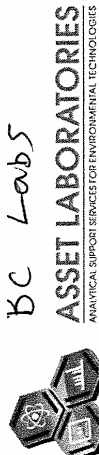
Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1626388 Page 1 of 2

Contact us: 3151 W. Post Road, Las Vegas, NV 89118 Nevada: P: 702.307.2659 F: 702.307.2691 California: 11110 Artesia Blvd. Ste. B • Cerritos, CA 90703 P: 562.219.7435 F: 562.219.7436 www.assetlaboratories.com

CHAIN OF CUSTODY RECORD



Main form area containing client information (Asset Labs), project details (EFF-09-20), sample analysis table with handwritten entries (Phenol, MRAs), and signature fields for sampler and receiver.

Container Type and Preservation options table with checkboxes for various materials and conditions.

Special Instructions, Turn Around Time (TAT) options, and a note about the chain of custody document.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party.



BC LABORATORIES INC. COOLER RECEIPT FORM Page Of

Submission #: 16-26388

SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input type="checkbox"/> Other <input checked="" type="checkbox"/> (Specify) <u>GSO</u>		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> <u>W</u> S
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 97 Container: Apple Thermometer ID: 208 Date/Time: 9-21-16
 Temperature: (A) 3.6 °C (C) 39 °C Analyst Init: AD10:10

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	A									
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS	B									
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PT PHENOLICS <u>Q+</u>	C									
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: RJA Date/Time: 9-21-16 1200 Rev 21 05/23/2016
 A = Actual / C = Corrected



ASSET Laboratories
3151-3153 W. Post Rd
Las Vegas, NV 89118

Reported: 09/27/2016 10:44
Project: Water Analysis
Project Number: SFPP Norwalk
Project Manager: Molky Brar

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1626388-01	COC Number:	---	Receive Date:	09/21/2016 10:10
	Project Number:	---	Sampling Date:	09/20/2016 12:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	EFF-09-20	Lab Matrix:	Water
	Sampled By:	Molky Brar	Sample Type:	Water

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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ASSET Laboratories
3151-3153 W. Post Rd
Las Vegas, NV 89118

Reported: 09/27/2016 10:44
Project: Water Analysis
Project Number: SFPP Norwalk
Project Manager: Molky Brar

Water Analysis (General Chemistry)

BCL Sample ID: 1626388-01	Client Sample Name: EFF-09-20, 9/20/2016 12:00:00PM, Molky Brar
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		1
Ammonia as NH3	ND	mg/L	0.26	0.060	EPA-350.1	ND	A07	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-425.1	09/21/16	09/21/16 14:00	JMN	MANUAL	1	BZ11749
2	EPA-350.1	09/26/16	09/26/16 13:54	JMH	SC-1	2	BZ12257

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Reported: 09/27/2016 10:44
Project: Water Analysis
Project Number: SFPP Norwalk
Project Manager: Molky Brar

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZI1749						
MBAS	BZI1749-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BZI2257						
Ammonia as NH3	BZI2257-BLK1	ND	mg/L	0.13	0.030	

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ASSET Laboratories
3151-3153 W. Post Rd
Las Vegas, NV 89118

Reported: 09/27/2016 10:44
Project: Water Analysis
Project Number: SFPP Norwalk
Project Manager: Molky Brar

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BZI1749										
MBAS	BZI1749-BS1	LCS	0.20260	0.20000	mg/L	101		85 - 115		
QC Batch ID: BZI2257										
Ammonia as NH3	BZI2257-BS1	LCS	1.1446	1.2160	mg/L	94.1		90 - 110		

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ASSET Laboratories
3151-3153 W. Post Rd
Las Vegas, NV 89118

Reported: 09/27/2016 10:44
Project: Water Analysis
Project Number: SFPP Norwalk
Project Manager: Molky Brar

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BZI1749		Used client sample: N								
MBAS	DUP	1626062-01	0.035200	0.035200		mg/L	0		20	J
	MS	1626062-01	0.035200	0.44600	0.40000	mg/L		103	80 - 120	
	MSD	1626062-01	0.035200	0.44100	0.40000	mg/L	1.1	101	20 80 - 120	
QC Batch ID: BZI2257		Used client sample: N								
Ammonia as NH3	DUP	1625735-01	ND	ND		mg/L			10	
	MS	1625735-01	ND	1.3406	1.3511	mg/L		99.2	90 - 110	
	MSD	1625735-01	ND	1.3180	1.3511	mg/L	1.7	97.6	10 90 - 110	

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Las Vegas, NV 89118

Reported: 09/27/2016 10:44
Project: Water Analysis
Project Number: SFPP Norwalk
Project Manager: Molky Brar

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.