



SFPP, L.P.
Operating Partnership

May 14, 2018

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

Re: Effluent Monitoring Report
January through March 2018
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 First Quarter 2018 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 14th day of May 2018.
at 9:08 p.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**

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

May 14, 2018

Subject: Effluent Monitoring Report, January 1 to March 31, 2018 (First Quarter 2018)
SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California
(NPDES No. CA0063509, CI No. 7497, Order No. R4-2016-0309)

Dear Mr. Defibaugh,

This report has been prepared by CH2M HILL Engineers, Inc. (CH2M), on behalf 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 Kinder Morgan's product recovery and groundwater extraction (GWE) system. This system is located at the SFPP, L.P. (SFPP) Norwalk Pump Station within the Defense Fuel Support Point Norwalk, at 15306 Norwalk Boulevard, Norwalk, California (the site; Figure 1).

This report describes NPDES monitoring activities during the period of January 1 to March 31, 2018. Kinder Morgan performed operations, maintenance, and monitoring tasks on the product recovery and GWE systems. Kinder Morgan retained CH2M to prepare this report based on the NPDES monitoring performed by Kinder Morgan.

Remediation Systems

Kinder Morgan operates remediation systems consisting of soil vapor extraction (SVE), total fluids extraction (TFE) of free product and/or groundwater using a top-loading pump, GWE 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 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 remedial objectives 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)
 - 1 horizontal biosparge well

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 vapor. 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 Operate (Permit Numbers [Nos.] G46188 A/N 578779 and G46187 A/N 578777, respectively; ID 110835) issued by the South Coast Air Quality Management District.

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 a dissolved air floatation oil-water separator (DAF/OWS). Free product, if any, from the DAF/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 installed downstream of the equalization tank treat fuel oxygenates such as tertiary butyl alcohol and methyl tertiary butyl ether. 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 the NPDES permit (Permit No. CA0063509; Order No. R4-2016-0309), which was adopted on September 7, 2016, and became effective on November 1, 2016.

Horizontal Biosparge System

Kinder Morgan completed installation of a horizontal biosparge system in the south-central area of the site in 2014. 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 (bgs). The lateral distance of the screen interval is 600 feet; the screen interval is situated below the central portion of the south-central area hydrocarbon plume. Further details regarding the construction of the biosparge well are 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, 2015¹).

Biosparging involves introducing air into the groundwater in situ to enhance biodegradation of VOCs present in product and groundwater. The biosparge compressor delivers ambient air to the biosparge well at a maximum design rate of approximately 500 standard cubic feet per minute. Vapors generated by the biosparge well are captured by the SVE system. The SVE system has an interlock that prevents the biosparge system from turning on unless the SVE system is operating. Operation of the SVE system reduces the potential for off-gassing of VOCs during biosparge operations. Pilot testing of the biosparge system commenced in early January 2016, and continued through October 2016. A comprehensive pilot test evaluation report that incorporates soil vapor and groundwater data was submitted to the Regional Water Quality Control Board (Water Board) in August 2017 (CH2M, 2017²). The biosparge system was restarted on June 27, 2017, after installation and startup of the new RTO system.

Based on the positive results of the pilot study, a second horizontal biosparge well was installed in the southeastern area of the site in November 2017. The design of the second biosparge well is similar to the south-central biosparge well: 4-inch-diameter Schedule 80 PVC casing and screen completed to a depth of approximately 45 feet bgs. The lateral distance of the screen interval is 240 feet centered below the southeastern area hydrocarbon plume. A construction completion report documenting construction activities and specifications will be submitted to the Water Board during the summer 2018. A second biosparge compressor will be installed in 2018 to deliver ambient air to the new biosparge well, which will be appropriately sized to allow for future system expansion.

A summary of the GWTS operations during the reporting period is presented below. Operations of the SVE and biosparge systems are presented separately in quarterly remediation progress reports that are provided to the Water Board and Restoration Advisory Board (RAB).

Summary of Quarterly GWTS Operations

A total of 708,746 gallons of groundwater was extracted from the south-central and southeastern areas, treated, and discharged to Coyote Creek during the first quarter 2018. Wells that were in operation included MW-SF-3, MW-SF-15, GMW-9, GMW-10, GMW-O-11, GMW-O-20, and GMW-O-23 in the south-central area, and GMW-O-15, GMW-O-18, GMW-36, 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 off from January 10 through January 22, 2018, to facilitate the removal and replacement of a Southern California Edison (SCE) power pole in the south-central area of the site, and for relocation of the GWTS control panel. The system was on briefly on January 12 and 19, 2018, to test the GWTS. The GWTS was restarted for normal operation on January 22, 2018.
- The GWTS was also off from January 30 through February 6, 2018 for routine maintenance of the OWS and GWTS. The GWTS was turned on briefly on February 2, 2018 to test the GWTS and returned to normal operation on February 6, 2018.

No free product accumulated in the product holding tank of the GWTS during the first quarter 2018.

¹ CH2M HILL (CH2M). 2015. *Horizontal Biosparge Well and Soil Vapor Monitoring Probe Completion Report, SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California*. February 18.

² CH2M HILL (CH2M). 2017. *Evaluation Report for the South-Central Area Horizontal Biosparge Pilot Test; SFPP Norwalk Pump Station, Norwalk, California*. August.

In addition, hand bailing of free product (from wells not equipped for TFE) was not performed during this reporting period because free product was not detected in the wells.

Routine Effluent Monitoring

During the first quarter 2018, effluent water samples were collected pursuant to the Waste Discharge Requirements (WDRs) under Order No. R4-2016-0309. Samples were collected at the Order-designated monitoring point EFF-001 (Remediation System Effluent) for monthly and quarterly analyses.

All compliance samples were shipped to Asset Laboratories in Las Vegas, Nevada, for analysis. Asset Laboratories sent samples to BC Laboratories, Inc. in Bakersfield, California for biochemical oxygen demand and ammonia as nitrogen analysis. The samples were analyzed in accordance with current U.S. Environmental Protection Agency (EPA) guidelines or as specified in the WDRs for the site. The laboratory reports are included in Attachment A. A data quality assurance/quality control evaluation conducted by CH2M is included in Attachment B.

Summary of Compliance Results

Monthly and Quarterly Sampling

Effluent daily flow rates are presented in Table 1. Analytical results for the January, February, and March 2018 effluent sampling events are summarized in Table 2. The daily flow rate in Coyote Creek, which is based on data from the Los Angeles County Department of Public Works flow gauge station F354-R, is presented in Table 3. The results were compared with the maximum daily and average monthly discharge limits under Order No. R4-2016-0309. As shown in Table 2, all discharge limits for the treatment system effluent were met during the reporting period. Laboratory analytical reports and chain-of-custody documents are included in Attachment A. The mass emission (in pounds per day) is calculated by multiplying the daily effluent flow measured during the day of the sampling event (million gallons per day) by the concentration of the analyte (milligrams per liter) and the conversion factor of 8.34, as required by the discharge permit. If the analyte was not detected in the sample, the concentration used is half of the method detection limit.

Under NPDES Order No. R4-2016-0306, a wet weather condition is present when the maximum daily flow in Coyote Creek is equal to or greater than 156 cubic feet per second (cfs) as measured at the Los Angeles County Department of Public Works flow gauge station F354-R, located at the bottom of the creek just above the Long Beach Water Reclamation Plant. Based on the data, the January 2018 sampling event (with maximum daily flows of 7,100 cfs) occurred during wet weather conditions. Therefore, analytical results for January 2018 are compared to the wet weather discharge limit, and analytical results for February and March 2018 are compared to the dry weather discharge limit.

Waste Hauling

On January 30, 2018, approximately 2,300 gallons of hazardous waste liquid (rinsate water from cleaning of the OWS) were removed from the site by Patriot Environmental Services of 508 East E. Street, Unit A, Wilmington, California 90744. The waste was transported to DeMenno Kerdoon at 2000 North Alameda Street, Compton, California 90222.

On March 19, 2018, approximately 280 pounds of non-Resource Conservation and Recovery Act (RCRA) hazardous waste (spent bag filters) were removed from the site by Clean Harbors Environmental Service Inc. of 1737 East Denni Street, Wilmington, California 90744. The waste was transported to Clean Harbors Wilmington LLC. at 1737 East Denni Street, Wilmington, California 90744.

Copies of the waste manifests are included in Attachment C.

Should you require any further information, please contact Vladimir Carino at (949) 224-7548.

Regards,
CH2M HILL Engineers, Inc.

A handwritten signature in dark ink, appearing to read "Vladimir Carino", written in a cursive style.

Vladimir Carino
Project Engineer

CH2M HILL is now part of Jacobs Engineering Group Inc.

Attachments:

- Table 1 – Effluent Flow Rate Measurements, First Quarter 2018
- Table 2 – NPDES Effluent Monitoring, First Quarter 2018
- Table 3 – Maximum Daily Flow in Coyote Creek, First Quarter 2018
- Figure 1 – Site Location Map
- Figure 2 – Remediation System Layout
- Attachment A – Laboratory Analytical Reports and Chain-of-Custody Documents
- Attachment B – Data Quality Assurance/Quality Control
- Attachment C – Waste Manifests

Tables

Table 1. Effluent Flow Rate Measurements, First Quarter 2018*SFPP Norwalk Pump Station, Norwalk, California*

Date	Average Flow Rate (gpd)
	(Maximum Daily Discharge Limit = 150,000 gpd ^a)
01/01/18	9,122
01/02/18	9,938
01/03/18	11,254
01/04/18	11,090
01/05/18	11,030
01/06/18	11,184
01/07/18	10,898
01/08/18	11,314
01/09/18	10,224
01/10/18	1,812
01/11/18	0
01/12/18	62
01/13/18	0
01/14/18	0
01/15/18	0
01/16/18	0
01/17/18	0
01/18/18	0
01/19/18	818
01/20/18	0
01/21/18	0
01/22/18	0
01/23/18	6,920
01/24/18	8,208
01/25/18	6,078
01/26/18	5,782
01/27/18	5,920
01/28/18	5,660
01/29/18	5,060
01/30/18	2,720
01/31/18	0
02/01/18	0
02/02/18	666
02/03/18	0
02/04/18	0
02/05/18	0
02/06/18	7,110
02/07/18	15,888
02/08/18	18,060
02/09/18	14,340
02/10/18	12,860
02/11/18	12,436
02/12/18	12,434
02/13/18	11,720
02/14/18	11,142
02/15/18	11,732
02/16/18	11,110
02/17/18	11,016
02/18/18	11,034
02/19/18	10,856
02/20/18	11,016
02/21/18	11,160
02/22/18	13,044
02/23/18	11,404
02/24/18	8,032
02/25/18	11,108
02/26/18	11,324

Table 1. Effluent Flow Rate Measurements, First Quarter 2018*SFPP Norwalk Pump Station, Norwalk, California*

Date	Average Flow Rate (gpd)
	(Maximum Daily Discharge Limit = 150,000 gpd ^a)
02/27/18	11,820
02/28/18	9,636
03/01/18	9,010
03/02/18	9,351
03/03/18	9,351
03/04/18	9,351
03/05/18	9,351
03/06/18	5,477
03/07/18	4,635
03/08/18	3,891
03/09/18	1,520
03/10/18	5,312
03/11/18	6,076
03/12/18	4,900
03/13/18	8,768
03/14/18	11,774
03/15/18	9,454
03/16/18	11,668
03/17/18	12,380
03/18/18	11,920
03/19/18	12,050
03/20/18	11,090
03/21/18	11,600
03/22/18	12,016
03/23/18	11,612
03/24/18	11,560
03/25/18	11,616
03/26/18	11,472
03/27/18	11,420
03/28/18	11,150
03/29/18	11,150
03/30/18	11,094
03/31/18	10,686

Notes:

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

gpd = gallons per day

Table 2. NPDES Effluent Monitoring, First Quarter 2018
SFPD Norwalk Pump Station, Norwalk, California

Analyte	Sampling Frequency	Analytical Method	Units	MDL ^c	RL ^c	ML ^a	1/9/2018	2/6/2018	3/6/2018	Discharge Limits ^b	
										Monthly Average	Daily Maximum
Flow	Daily	--	gpd	--	--	--	10,224	7,110	5,447	--	150,000
TPH as gas (C4-C12)	Monthly	EPA 8015B	µg/L	16	50	NE	<16	<16	<16	--	--
TPH as Diesel (C13-C22)	Monthly	EPA 8015B	µg/L	16	26	NE	<16	<16	<15	--	--
TPH as Oil (C23+)	Monthly	EPA 8015B	µg/L	14	26	NE	<14	14 J	<19	--	--
Total TPH	Monthly	EPA 8015B	µg/L	16	50	NE	<16	<16	<19	--	100
Total TPH	Monthly	Calculated	lbs/day	--	--	--	0.000682	0.000474	0.000432	--	0.13
Benzene	Monthly	EPA 8260B	µg/L	0.34	1	2.0	<0.34	<0.34	<0.34	--	--
1,1-Dichloroethane	Monthly	EPA 8260B	µg/L	0.45	0.5	1.0	<0.45	<0.45	<0.45	--	--
1,2-Dichloroethane	Monthly	EPA 8260B	µg/L	0.29	0.5	2.0	<0.29	<0.29	<0.29	--	--
Ethylbenzene	Monthly	EPA 8260B	µg/L	0.31	1.0	2.0	<0.31	<0.31	<0.31	--	--
Phenol	Monthly	EPA 8270C	µg/L	0.33	1.0	1	<0.33	<0.33	<0.33	--	--
Toluene	Monthly	EPA 8260B	µg/L	0.46	2.0	2.0	<0.46	<0.46	<0.46	--	--
Methyl tertiary-butyl ether	Monthly	EPA 8260B	µg/L	0.34	1.0	NE	<0.34	<0.34	<0.34	--	--
Tertiary butyl alcohol	Monthly	EPA 8260B	µg/L	2.4	5.0	NE	<2.4	<2.4	<2.4	--	--
Total Xylenes	Monthly	EPA 8260B	µg/L	1.5	2.0	NE	<1.5	<1.5	<1.5	--	--
Copper (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.26	0.5	0.5	--	<0.26	<0.26	9.7	32
Copper (total recoverable) (dry weather)	Monthly	Calculated	lbs/day	--	--	--	--	0.000008	0.000006	0.012	0.04
Copper (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.26	0.5	0.5	<0.26	--	--	8.3	27
Copper (total recoverable) (wet weather)	Monthly	Calculated	lbs/day	--	--	--	0.000011	--	--	0.010	0.034
Lead (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.13	0.5	0.5	<0.037	--	--	33	106
Lead (total recoverable) (wet weather)	Monthly	Calculated	lbs/day	--	--	--	0.000002	--	--	0.041	0.13
Mercury (total recoverable)	Monthly	EPA 245.1	µg/L	0.018	0.1	0.2	<0.018	<0.018	<0.018	0.051	0.10
Mercury (total recoverable)	Monthly	Calculated	lbs/day	--	--	--	0.000001	0.000001	0	6.4E-05	1.3E-04
Zinc (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.27	1.0	1.0	--	1.1	<0.27	64	220
Zinc (total recoverable) (dry weather)	Monthly	Calculated	lbs/day	--	--	--	--	0.000065	0.000006	0.080	0.28
Zinc (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.27	1.0	1.0	<0.27	--	--	46	158
Zinc (total recoverable) (wet weather)	Monthly	Calculated	lbs/day	--	--	--	0.000012	--	--	0.058	0.2
BOD	Quarterly	SM 5210B	mg/L	1.5	1.5	NE	1.8	--	--	20	30
BOD	Quarterly	Calculated	lbs/day	--	--	--	0.153483	--	--	25	38
Total Suspended Solids	Quarterly	SM 2540D	mg/L	10	10.00	NE	<10	--	--	50	75
Total Suspended Solids	Quarterly	Calculated	lbs/day	--	--	--	0.426341	--	--	63	94
pH	Quarterly	--	s.u.	--	--	NE	7.2	--	--	--	6.5/8.5
Oil and Grease	Quarterly	EPA 1664A	mg/L	0.74	4.50	NE	<0.74	--	--	10	15
Oil and Grease	Quarterly	Calculated	lbs/day	--	--	--	0.031549	--	--	13	19
Ammonia Nitrogen (as N)	Quarterly	SM 4500 NH3G	mg/L	0.078	0.20	NE	<0.078	--	--	--	--
Settleable Solids	Quarterly	SM 2540F	mL/L/hr	0.096	0.10	NE	<0.096	--	--	0.1	0.3
Temperature	Quarterly	Temperature	°F	--	--	NE	65.8	--	--	--	86
Turbidity	Quarterly	SM 2130B	NTU	0.1	0.10	NE	0.36	--	--	50	75
Salinity	2x/year	SM 2520B	ppt	--	--	NE	--	--	--	--	--
Chronic Toxicity	2x/year	--	PASS/FAIL	--	--	NE	--	--	--	Pass	Pass and % Effect <50
Di-isopropyl Ether	Annually	EPA 8260B	µg/L	--	--	NE	--	--	--	--	--
Methyl ethyl ketone	Annually	EPA 8260B	µg/L	--	--	NE	--	--	--	--	--
Methylene Blue Active Substances	Annually	SM 5540C	mg/L	--	--	NE	--	--	--	--	--
Nitrate + Nitrite as N	Annually	EPA 300.0	mg/L	--	--	NE	--	--	--	--	--
Sulfides	Annually	SM 4500 SD	mg/L	--	--	NE	--	--	--	--	--
Tert-amyl-methyl Ether	Annually	EPA 8260B	µg/L	--	--	NE	--	--	--	--	--
TCDD Equivalents	Annually	EPA 8290	pg/L	--	--	NE	--	--	--	--	--
Other Priority Pollutants	Annually	--	See Table 3	--	--	--	--	--	--	--	--

Table 2. NPDES Effluent Monitoring, First Quarter 2018

SFPP Norwalk Pump Station, Norwalk, California

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) under Order No. R4-2016-0309.

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

Abbreviations:

-- = 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

Table 3. Maximum Daily Flow in Coyote Creek, First Quarter 2018*SFPP Norwalk Pump Station, Norwalk, California*

Date	Maximum Daily Flow Rate (cfs)^a	Comments
01/01/18	4.4	
01/02/18	5.0	
01/03/18	5.7	
01/04/18	5.6	
01/05/18	12.1	
01/06/18	4.1	
01/07/18	3.8	
1/8/2018 ^a	1,300	
1/9/2018 ^a	7,100	January 2018 sampling conducted
1/10/2018 ^a	366	
01/11/18	16.2	
01/12/18	11.6	
01/13/18	7.9	
01/14/18	9.1	
01/15/18	5.9	
01/16/18	8.2	
01/17/18	9.4	
01/18/18	8.6	
01/19/18	10.5	
01/20/18	23.4	
01/21/18	9.5	
01/22/18	5.8	
01/23/18	8.5	
01/24/18	16.6	
01/25/18	30.3	
01/26/18	68.6	
01/27/18	13.4	
01/28/18	38.9	
01/29/18	15.1	
01/30/18	34.8	
01/31/18	37.7	
02/01/18	45.3	
02/02/18	4.8	
02/03/18	4.4	
02/04/18	5.4	
02/05/18	6.3	
02/06/18	9.9	February 2018 sampling conducted
02/07/18	8.9	
02/08/18	8.1	
02/09/18	10.0	
02/10/18	10.5	
02/11/18	9.5	
02/12/18	12.2	
02/13/18	23.8	
02/14/18	17.3	
02/15/18	14.4	
02/16/18	17.9	
02/17/18	12.8	
02/18/18	8.5	
02/19/18	9.1	
02/20/18	20.0	
02/21/18	18.2	
02/22/18	19.1	
02/23/18	18.8	
02/24/18	13.5	

Table 3. Maximum Daily Flow in Coyote Creek, First Quarter 2018*SFPD Norwalk Pump Station, Norwalk, California*

Date	Maximum Daily Flow Rate (cfs)^a	Comments
02/25/18	29.4	
02/26/18	145	
2/27/2018 ^a	1,010	
02/28/18	11.5	
03/01/18	2.0	
3/2/2018 ^a	567	
3/3/2018 ^a	332	
03/04/18	3.8	
03/05/18	1.2	
03/06/18	1.1	March 2018 sampling conducted
03/07/18	1.2	
03/08/18	1.4	
03/09/18	0.8	
3/10/2018 ^a	980	
3/11/2018 ^a	1,470	
03/12/18	3.0	
03/13/18	128	
03/14/18	145	
3/15/2018 ^a	320	
3/16/2018 ^a	1,140	
3/17/2018 ^a	1,460	
03/18/18	3.1	
03/19/18	1.2	
03/20/18	1.4	
3/21/2018 ^a	175	
3/22/2018 ^a	834	
3/23/2018 ^a	226	
03/24/18	3.5	
03/25/18	1.1	
03/26/18	2.4	
03/27/18	5.5	
03/28/18	3.4	
03/29/18	7.8	
03/30/18	8.1	
03/31/18	5.8	

Notes:

^a A wet weather event is any day when the maximum daily flow of Coyote Creek is greater than or equal to 156 cfs. A dry weather event is any day when the maximum daily flow of Coyote Creek is less than 156 cfs.

cfs = cubic feet per second

Figures

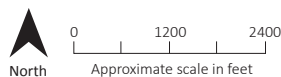
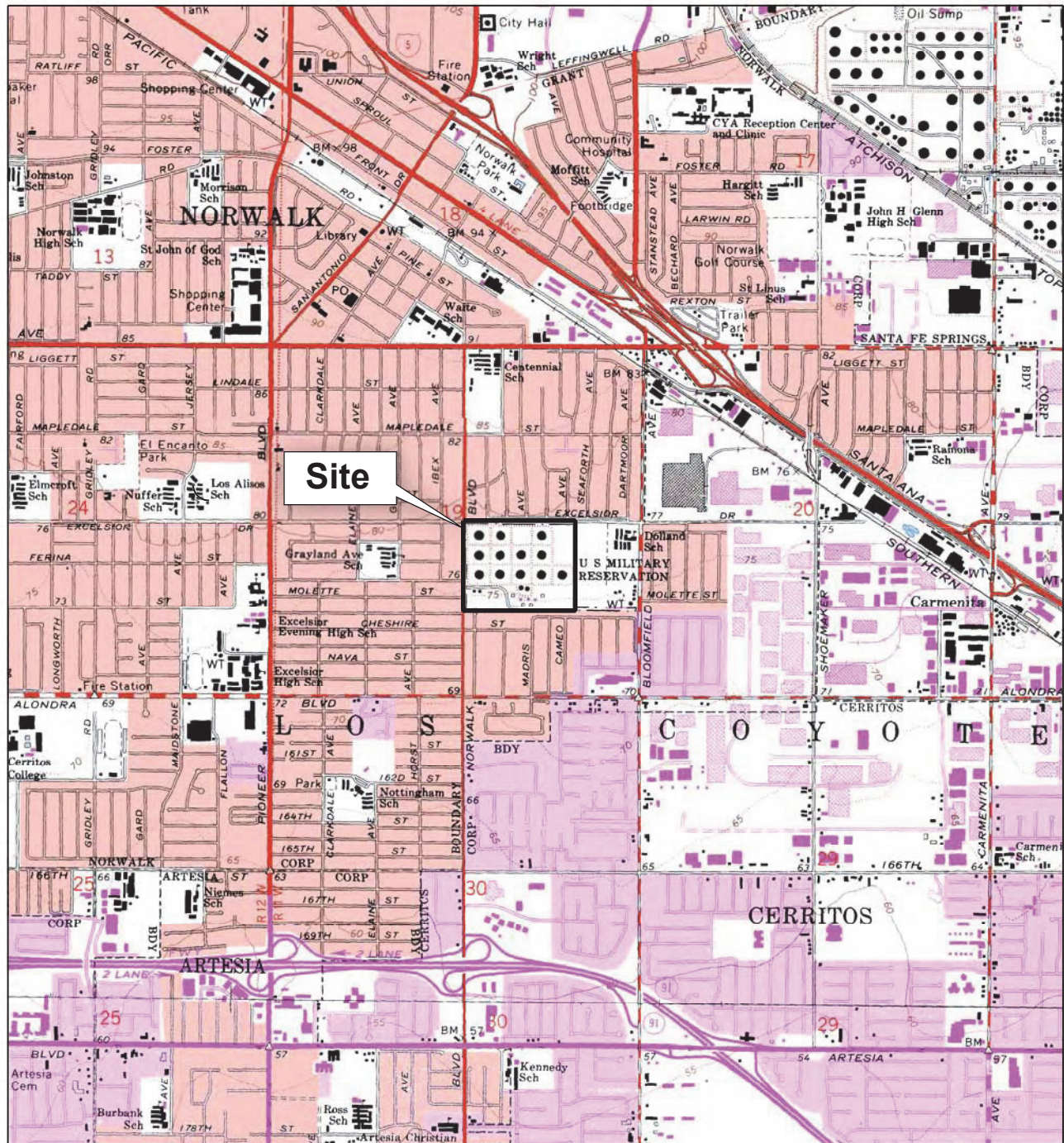


Figure 1
Site Location Map
 SFPP Norwalk Pump Station
 Norwalk, California

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.

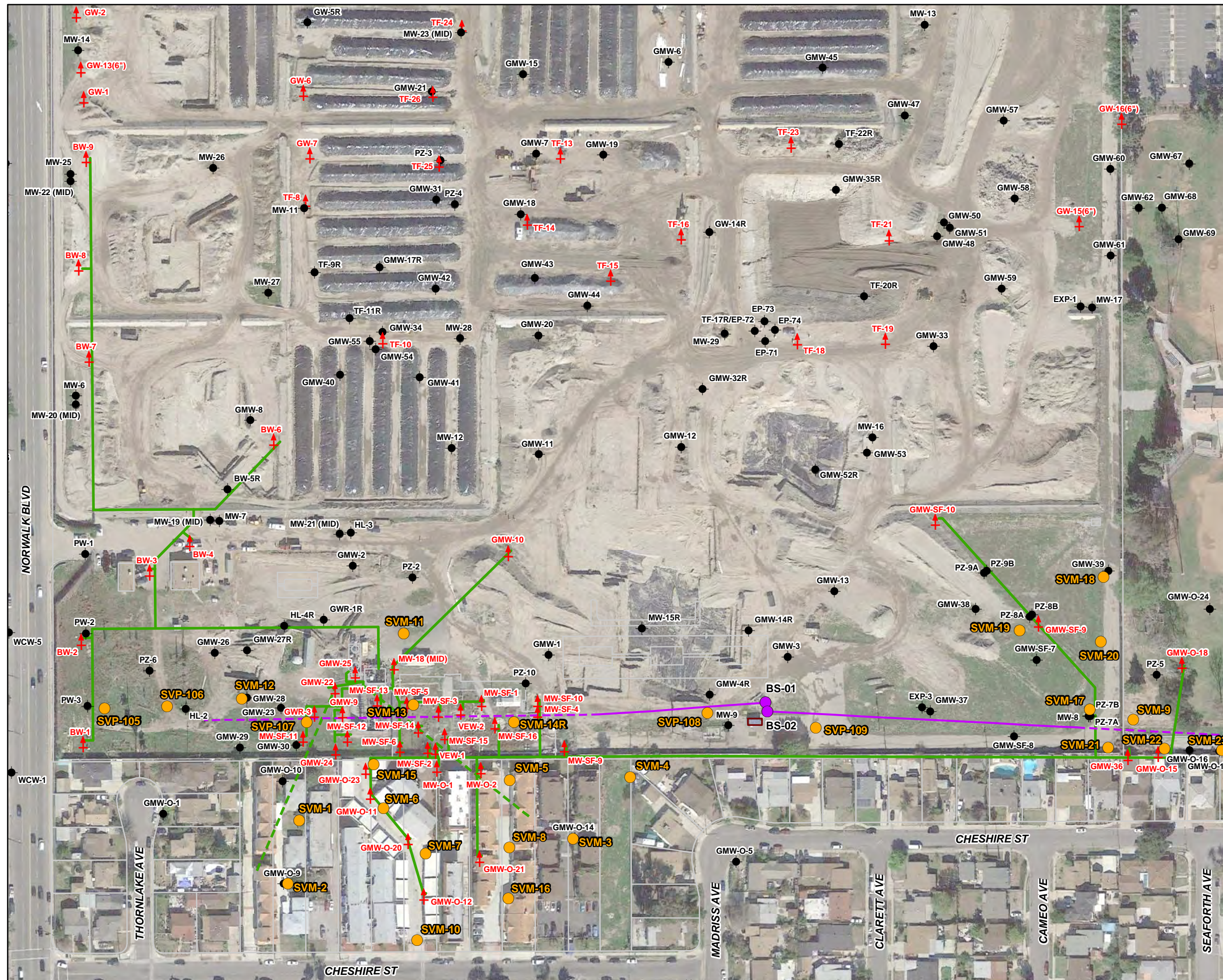


Figure 2
Remediation System Layout
SFPP Norwalk Pump Station
Norwalk, California

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

January 18, 2018

Eric Davis
CH2MHill
1000 Wilshire Blvd.
Los Angeles, CA 90017

TEL:

FAX:

Workorder No.: N027903

RE: SFPP Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on January 09, 2018 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,



Quennie Manimtim
Laboratory Director

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ELAP Cert 2676 | NV Cert NV00922
ORELAP/NELAP Cert 4046

CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N027903

CASE NARRATIVE**SAMPLE RECEIVING/GENERAL COMMENTS:**

All sample containers were received intact with proper chain of custody documentation.

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

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

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 Analysis:

BOD by SM5210B and Ammonia by SM4500NH3C were subcontracted to BC Laboratories with ELAP Cer# 1186.



ASSET Laboratories

Date: 18-Jan-18

CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N027903
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N027903-001A	EFF-01-09	Wastewater	1/9/2018 12:50:00 PM	1/9/2018	1/18/2018
N027903-001B	EFF-01-09	Wastewater	1/9/2018 12:50:00 PM	1/9/2018	1/18/2018
N027903-001C	EFF-01-09	Wastewater	1/9/2018 12:50:00 PM	1/9/2018	1/18/2018
N027903-001D	EFF-01-09	Wastewater	1/9/2018 12:50:00 PM	1/9/2018	1/18/2018
N027903-001E	EFF-01-09	Wastewater	1/9/2018 12:50:00 PM	1/9/2018	1/18/2018
N027903-001F	EFF-01-09	Wastewater	1/9/2018 12:50:00 PM	1/9/2018	1/18/2018
N027903-001G	EFF-01-09	Wastewater	1/9/2018 12:50:00 PM	1/9/2018	1/18/2018
N027903-001H	EFF-01-09	Wastewater	1/9/2018 12:50:00 PM	1/9/2018	1/18/2018
N027903-001I	EFF-01-09	Wastewater	1/9/2018 12:50:00 PM	1/9/2018	1/18/2018



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ASSET Laboratories
ANALYTICAL RESULTS

Print Date: 18-Jan-18

CLIENT: CH2MHill
Lab Order: N027903
Project: SFPP Norwalk
Lab ID: N027903-001

Client Sample ID: EFF-01-09
Collection Date: 1/9/2018 12:50:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

TOTAL NON-FILTERABLE RESIDUE
SM2540D

RunID: NV00922-WC_180110G	QC Batch: 66322				PrepDate: 1/10/2018		Analyst: LR
Suspended Solids (Residue, Non-Filterable)	ND	10	10		mg/L	1	1/10/2018 10:22 AM

SETTLEABLE MATTER
SM2540F

RunID: NV00922-WC_180110N	QC Batch: 66320				PrepDate: 1/10/2018		Analyst: QBM
Settleable Matter	ND	0.096	0.096		ml/L	1	1/10/2018 09:12 AM

HEXANE EXTRACTABLE MATERIAL (HEM)
EPA 1664 _HEM REV B

RunID: NV00922-WC_180112A	QC Batch: 66348				PrepDate: 1/12/2018		Analyst: LR
Oil & Grease	ND	0.74	4.5		mg/L	1	1/12/2018 07:33 AM

TURBIDITY
SM 2130B

RunID: NV00922-WC_180110H	QC Batch: R121337				PrepDate:		Analyst: LR
Turbidity	0.36	0.10	0.10		NTU	1	1/10/2018 04:50 PM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA 3510C
EPA 8270C

RunID: NV00922-MS3_180114A	QC Batch: 66356				PrepDate: 1/12/2018		Analyst: MJM
Phenol	ND	0.33	1.0		µg/L	1	1/14/2018 11:39 PM
Surr: 1,2-Dichlorobenzene-d4	72.0	0	16-120		%REC	1	1/14/2018 11:39 PM
Surr: 2-Fluorobiphenyl	70.0	0	25-120		%REC	1	1/14/2018 11:39 PM
Surr: 4-Terphenyl-d14	105	0	46-132		%REC	1	1/14/2018 11:39 PM
Surr: Phenol-d5	32.0	0	15-120		%REC	1	1/14/2018 11:39 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA 8260B

RunID: NV00922-MS5_180110A	QC Batch: P18VW007				PrepDate:		Analyst: QBM
1,1-Dichloroethane	ND	0.45	0.50		ug/L	1	1/10/2018 01:32 PM
1,2-Dichloroethane	ND	0.29	0.50		ug/L	1	1/10/2018 01:32 PM
Benzene	ND	0.34	1.0		ug/L	1	1/10/2018 01:32 PM
Ethylbenzene	ND	0.31	1.0		ug/L	1	1/10/2018 01:32 PM
m,p-Xylene	ND	0.23	1.0		ug/L	1	1/10/2018 01:32 PM
MTBE	ND	0.34	1.0		ug/L	1	1/10/2018 01:32 PM
o-Xylene	ND	0.31	1.0		ug/L	1	1/10/2018 01:32 PM

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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ASSET Laboratories
ANALYTICAL RESULTS

Print Date: 18-Jan-18

CLIENT: CH2MHill
Lab Order: N027903
Project: SFPP Norwalk
Lab ID: N027903-001

Client Sample ID: EFF-01-09
Collection Date: 1/9/2018 12:50:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

VOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA 8260B

RunID: NV00922-MS5_180110A	QC Batch: P18VW007	PrepDate	Analyst: QBM			
Tert-Butanol	ND	2.4	5.0	ug/L	1	1/10/2018 01:32 PM
Toluene	ND	0.46	2.0	ug/L	1	1/10/2018 01:32 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	1/10/2018 01:32 PM
Surr: 1,2-Dichloroethane-d4	105	0	72-119	%REC	1	1/10/2018 01:32 PM
Surr: 4-Bromofluorobenzene	99.4	0	76-119	%REC	1	1/10/2018 01:32 PM
Surr: Dibromofluoromethane	105	0	85-115	%REC	1	1/10/2018 01:32 PM
Surr: Toluene-d8	101	0	81-120	%REC	1	1/10/2018 01:32 PM

TPH EXTRACTABLE BY GC/FID
EPA 3510C
EPA 8015B

RunID: NV00922-GC3_180110A	QC Batch: 66317	PrepDate	1/10/2018	Analyst: SS		
TPH-Diesel (C13-C22)	ND	16	26	ug/L	1	1/10/2018 01:58 PM
TPH-Oil (C23-C36)	ND	14	26	ug/L	1	1/10/2018 01:58 PM
Surr: Octacosane	63.9	0	26-152	%REC	1	1/10/2018 01:58 PM
Surr: p-Terphenyl	61.7	0	57-132	%REC	1	1/10/2018 01:58 PM

GASOLINE RANGE ORGANICS BY GC/FID
EPA 8015B

RunID: NV00922-GC4_180110A	QC Batch: E18VW005	PrepDate	Analyst: QBM			
TPH-Gasoline (C4-C12)	ND	16	50	ug/L	1	1/10/2018 04:29 PM
Surr: Chlorobenzene - d5	116	0	74-138	%REC	1	1/10/2018 04:29 PM

MERCURY BY COLD VAPOR TECHNIQUE
EPA 245.1

RunID: NV00922-AA1_180110B	QC Batch: 66305	PrepDate	1/10/2018	Analyst: MG		
Mercury	ND	0.018	0.050	µg/L	1	1/10/2018 01:24 PM

TOTAL METALS BY ICPMS
EPA 200.8

RunID: NV00922-ICP7_180110A	QC Batch: 66307	PrepDate	1/10/2018	Analyst: CEI		
Copper	ND	0.26	0.50	µg/L	1	1/10/2018 12:20 PM
Lead	ND	0.037	0.50	µg/L	1	1/10/2018 12:20 PM
Zinc	ND	0.27	1.0	µg/L	1	1/10/2018 12:20 PM

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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ASSET Laboratories
ANALYTICAL RESULTS
Print Date: 18-Jan-18

CLIENT: CH2MHill
Lab Order: N027903
Project: SFPP Norwalk
Lab ID: N027903-001

Client Sample ID: EFF-01-09
Collection Date: 1/9/2018 12:50:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

TOTAL TPH
EPA 8015B

RunID: NV00922-GC3_180110A	QC Batch: R121329	PrepDate	Analyst: SS
Total TPH	ND	16	50
		ug/L	1
			1/10/2018

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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CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT**TestCode: 160.2_2540D_W**

Sample ID LCS-66322	SampType: LCS	TestCode: 160.2_2540D	Units: mg/L	Prep Date: 1/10/2018	RunNo: 121336
Client ID: LCSW	Batch ID: 66322	TestNo: SM2540D		Analysis Date: 1/10/2018	SeqNo: 2891468
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Suspended Solids (Residue, Non-Filter)	951.000	10	1000	0	95.1 80 120

Sample ID MB-66322	SampType: MBLK	TestCode: 160.2_2540D	Units: mg/L	Prep Date: 1/10/2018	RunNo: 121336
Client ID: PBW	Batch ID: 66322	TestNo: SM2540D		Analysis Date: 1/10/2018	SeqNo: 2891469
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 N027895-001ADUP	SampType: DUP	TestCode: 160.2_2540D	Units: mg/L	Prep Date: 1/10/2018	RunNo: 121336
Client ID: ZZZZZZ	Batch ID: 66322	TestNo: SM2540D		Analysis Date: 1/10/2018	SeqNo: 2891471
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Suspended Solids (Residue, Non-Filter)	113.000	10			109.0 3.60 5

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 |

CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.5_2540F_W

Sample ID	MB-66320	SampType:	MBLK	TestCode:	160.5_2540F_	Units:	m/L	Prep Date:	1/10/2018	RunNo:	121409			
Client ID:	PBW	Batch ID:	66320	TestNo:	SM2540F			Analysis Date:	1/10/2018	SeqNo:	2893761			
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 |

CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_HEM_W

Sample ID	MB-66348	SampType:	MBLK	TestCode:	1664_HEM_	Units:	mg/L	Prep Date:	1/12/2018	RunNo:	121382			
Client ID:	PBW	Batch ID:	66348	TestNo:	EPA 1664 _H			Analysis Date:	1/12/2018	SeqNo:	2892884			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease ND 4.0

Sample ID	LCS-66348	SampType:	LCS	TestCode:	1664_HEM_	Units:	mg/L	Prep Date:	1/12/2018	RunNo:	121382			
Client ID:	LCSW	Batch ID:	66348	TestNo:	EPA 1664 _H			Analysis Date:	1/12/2018	SeqNo:	2892885			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease 32.600 4.0 40.00 0 81.5 78 114

Sample ID	N027903-001GMS	SampType: MS	TestCode: 1664_HEM_	Units: mg/L	Prep Date: 1/12/2018	RunNo: 121382					
Client ID: ZZZZZZ	Batch ID: 66348	TestNo: EPA 1664 _H	Analysis Date: 1/12/2018	SeqNo: 2892896							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease 36.364 4.5 45.45 0 80.0 78 114

Sample ID	N027903-001GMSD	SampType:	MSD	TestCode:	1664_HEM_	Units:	mg/L	Prep Date:	1/12/2018	RunNo:	121382			
Client ID:	ZZZZZZ	Batch ID:	66348	TestNo:	EPA 1664 _H			Analysis Date:	1/12/2018	SeqNo:	2892897			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease 34.624 4.3 43.01 0 80.5 78 114 36.36 4.90 18

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 |

CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID	MB-66307	SampType:	MBLK	TestCode:	200.8_W_SF	Units:	µg/L	Prep Date:	1/10/2018	RunNo:	121312
Client ID:	PBW	Batch ID:	66307	TestNo:	EPA 200.8			Analysis Date:	1/10/2018	SeqNo:	2890246
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									
Zinc	ND	1.0									

Sample ID	LCS-66307	SampType:	LCS	TestCode:	200.8_W_SF	Units:	µg/L	Prep Date:	1/10/2018	RunNo:	121312
Client ID:	LCSW	Batch ID:	66307	TestNo:	EPA 200.8			Analysis Date:	1/10/2018	SeqNo:	2890247
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.918	0.50	10.00	0	99.2	85	115				
Lead	9.816	0.50	10.00	0	98.2	85	115				
Zinc	102.542	1.0	100.0	0	103	85	115				

Sample ID	N027903-001C-DUP	SampType:	DUP	TestCode:	200.8_W_SF	Units:	µg/L	Prep Date:	1/10/2018	RunNo:	121312
Client ID:	ZZZZZZ	Batch ID:	66307	TestNo:	EPA 200.8			Analysis Date:	1/10/2018	SeqNo:	2890250
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.50						0	0	20	
Lead	ND	0.50						0	0	20	
Zinc	ND	1.0						0	0	20	

Sample ID	N027903-001C-MS	SampType:	MS	TestCode:	200.8_W_SF	Units:	µg/L	Prep Date:	1/10/2018	RunNo:	121312
Client ID:	ZZZZZZ	Batch ID:	66307	TestNo:	EPA 200.8			Analysis Date:	1/10/2018	SeqNo:	2890252
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.922	0.50	10.00	0	79.2	75	125				
Lead	10.459	0.50	10.00	0	105	75	125				
Zinc	110.781	1.0	100.0	0	111	75	125				

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 |

CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID	N027903-001C-MSD	SampType: MSD	TestCode: 200.8_W_SF	Units: µg/L	Prep Date: 1/10/2018	RunNo: 121312					
Client ID:	ZZZZZZ	Batch ID: 66307	TestNo: EPA 200.8	Analysis Date: 1/10/2018	SeqNo: 2890253						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.724	0.50	10.00	0	77.2	75	125	7.922	2.52	20	
Lead	10.483	0.50	10.00	0	105	75	125	10.46	0.225	20	
Zinc	108.660	1.0	100.0	0	109	75	125	110.8	1.93	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 |

CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 2130_W

Sample ID	MB-R121337	SampType:	MBLK	TestCode:	2130_W	Units:	NTU	Prep Date:		RunNo:	121337	
Client ID:	PBW	Batch ID:	R121337	TestNo:	SM 2130B			Analysis Date:	1/10/2018	SeqNo:	2891482	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Turbidity ND 0.10

Sample ID	N027903-001FDUP	SampType:	DUP	TestCode:	2130_W	Units:	NTU	Prep Date:		RunNo:	121337	
Client ID:	ZZZZZZ	Batch ID:	R121337	TestNo:	SM 2130B			Analysis Date:	1/10/2018	SeqNo:	2891484	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Turbidity 0.340 0.10 0.3600 5.71 30

Qualifiers:

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|---|--|----|-------------------------------------|---|--|
| 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 |

CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID	MB-66305	SampType:	MBLK	TestCode:	245.1_W_LL	Units:	µg/L	Prep Date:	1/10/2018	RunNo:	121314			
Client ID:	PBW	Batch ID:	66305	TestNo:	EPA 245.1			Analysis Date:	1/10/2018	SeqNo:	2890278			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050

Sample ID	LCS-66305	SampType:	LCS	TestCode:	245.1_W_LL	Units:	µg/L	Prep Date:	1/10/2018	RunNo:	121314			
Client ID:	LCSW	Batch ID:	66305	TestNo:	EPA 245.1			Analysis Date:	1/10/2018	SeqNo:	2890280			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.587 0.050 2.500 0 103 85 115

Sample ID	N027903-001C-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 1/10/2018	RunNo: 121314					
Client ID: ZZZZZZ	Batch ID: 66305	TestNo: EPA 245.1	Analysis Date: 1/10/2018	SeqNo: 2890281							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.269 0.050 2.500 0 90.7 75 125

Sample ID	N027903-001C-MSD	SampType:	MSD	TestCode:	245.1_W_LL	Units:	µg/L	Prep Date:	1/10/2018	RunNo:	121314			
Client ID:	ZZZZZZ	Batch ID:	66305	TestNo:	EPA 245.1			Analysis Date:	1/10/2018	SeqNo:	2890282			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.384 0.050 2.500 0 95.3 75 125 2.269 4.95 20

Sample ID	N027903-001C-DUP	SampType:	DUP	TestCode:	245.1_W_LL	Units:	µg/L	Prep Date:	1/10/2018	RunNo:	121314			
Client ID:	ZZZZZZ	Batch ID:	66305	TestNo:	EPA 245.1			Analysis Date:	1/10/2018	SeqNo:	2890284			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050 0 0 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 |

CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID	MB-66317	SampType:	MBLK	TestCode:	8015_W_FP_	Units:	ug/L	Prep Date:	1/10/2018	RunNo:	121329
Client ID:	PBW	Batch ID:	66317	TestNo:	EPA 8015B	EPA 3510C		Analysis Date:	1/10/2018	SeqNo:	2890751
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)	16.894	25									J
Surr: Octacosane	58.797		80.00		73.5	26	152				
Surr: p-Terphenyl	57.012		80.00		71.3	57	132				

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 |

CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID	MB-R121329	SampType:	MBLK	TestCode:	8015_W_SFP	Units:	ug/L	Prep Date:		RunNo:	121329			
Client ID:	PBW	Batch ID:	R121329	TestNo:	EPA 8015B			Analysis Date:	1/10/2018	SeqNo:	2891451			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH		16.894		50										J

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 |

CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID	E180110LCS	SampType:	LCS	TestCode:	8015GAS_W	Units:	ug/L	Prep Date:		RunNo:	121321	
Client ID:	LCSW	Batch ID:	E18VW005	TestNo:	EPA 8015B			Analysis Date:	1/10/2018	SeqNo:	2890395	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	916.000	50	1000	0	91.6	67	136				
Surr: Chlorobenzene - d5	44568.000		50000		89.1	74	138				

Sample ID	E180110MB1	SampType:	MBLK	TestCode:	8015GAS_W	Units:	ug/L	Prep Date:		RunNo:	121321	
Client ID:	PBW	Batch ID:	E18VW005	TestNo:	EPA 8015B			Analysis Date:	1/10/2018	SeqNo:	2890396	
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	54971.000		50000		110	74	138				

Sample ID	N027903-001AMS	SampType:	MS	TestCode:	8015GAS_W	Units:	ug/L	Prep Date:		RunNo:	121321	
Client ID:	ZZZZZZ	Batch ID:	E18VW005	TestNo:	EPA 8015B			Analysis Date:	1/10/2018	SeqNo:	2890579	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	811.000	50	1000	0	81.1	67	136				
Surr: Chlorobenzene - d5	43260.000		50000		86.5	74	138				

Sample ID	N027903-001AMSD	SampType: MSD	TestCode: 8015GAS_W	Units: ug/L	Prep Date:				RunNo: 121321			
Client ID: ZZZZZZ	Batch ID: E18VW005		TestNo: EPA 8015B		Analysis Date: 1/10/2018				SeqNo: 2890580			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

TPH-Gasoline (C4-C12)	796.000	50	1000	0	79.6	67	136	811.0	1.87	30	
Surr: Chlorobenzene - d5	43284.000		50000		86.6	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
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

CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	N027903-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:				RunNo: 121320		
Client ID:	ZZZZZZ	Batch ID: P18VW007	TestNo: EPA 8260B	Analysis Date: 1/10/2018				SeqNo: 2890385			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	19.040	0.50	20.00	0	95.2	69	133				
1,2-Dichloroethane	21.520	0.50	20.00	0	108	69	132				
Benzene	19.700	1.0	20.00	0	98.5	81	122				
Ethylbenzene	18.440	1.0	20.00	0	92.2	73	127				
m,p-Xylene	38.340	1.0	40.00	0	95.9	76	128				
MTBE	17.170	1.0	20.00	0	85.9	65	123				
o-Xylene	19.000	1.0	20.00	0	95.0	80	121				
Tert-Butanol	70.010	5.0	100.0	0	70.0	70	130				
Toluene	18.890	2.0	20.00	0	94.4	77	122				
Xylenes, Total	57.340	2.0	60.00	0	95.6	75	125				
Surr: 1,2-Dichloroethane-d4	27.900		25.00		112	72	119				
Surr: 4-Bromofluorobenzene	24.990		25.00		100	76	119				
Surr: Dibromofluoromethane	27.160		25.00		109	85	115				
Surr: Toluene-d8	25.960		25.00		104	81	120				

Sample ID	N027903-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:				RunNo: 121320		
Client ID:	ZZZZZZ	Batch ID: P18VW007	TestNo: EPA 8260B		Analysis Date: 1/10/2018				SeqNo: 2890386		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	18.870	0.50	20.00	0	94.4	69	133	19.04	0.897	20	
1,2-Dichloroethane	20.880	0.50	20.00	0	104	69	132	21.52	3.02	20	
Benzene	19.810	1.0	20.00	0	99.0	81	122	19.70	0.557	20	
Ethylbenzene	19.230	1.0	20.00	0	96.2	73	127	18.44	4.19	20	
m,p-Xylene	39.280	1.0	40.00	0	98.2	76	128	38.34	2.42	20	
MTBE	17.370	1.0	20.00	0	86.9	65	123	17.17	1.16	20	
o-Xylene	19.820	1.0	20.00	0	99.1	80	121	19.00	4.22	20	
Tert-Butanol	71.710	5.0	100.0	0	71.7	70	130	70.01	2.40	20	
Toluene	18.610	2.0	20.00	0	93.0	77	122	18.89	1.49	20	
Xylenes, Total	59.100	2.0	60.00	0	98.5	75	125	57.34	3.02	20	
Surr: 1,2-Dichloroethane-d4	26.630		25.00		107	72	119		0		

Qualifiers:

- | | | | | | |
|---|--|----|-------------------------------------|---|--|
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| S | Spike/Surrogate outside of limits due to matrix interference | DO | Surrogate Diluted Out | | Calculations are based on raw values |

CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	N027903-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 121320					
Client ID:	ZZZZZZ	Batch ID: P18VW007	TestNo: EPA 8260B	Analysis Date: 1/10/2018	SeqNo: 2890386						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	25.180		25.00		101	76	119		0		
Surr: Dibromofluoromethane	25.890		25.00		104	85	115		0		
Surr: Toluene-d8	25.000		25.00		100	81	120		0		

Sample ID	P180110MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:				RunNo: 121320		
Client ID:	PBW	Batch ID: P18VW007	TestNo: EPA 8260B	Analysis Date: 1/10/2018				SeqNo: 2890389			
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									
Benzene	ND	1.0									
Ethylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
MTBE	ND	1.0									
o-Xylene	ND	1.0									
Tert-Butanol	ND	5.0									
Toluene	ND	2.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	25.890		25.00		104	72	119				
Surr: 4-Bromofluorobenzene	25.600		25.00		102	76	119				
Surr: Dibromofluoromethane	26.410		25.00		106	85	115				
Surr: Toluene-d8	25.220		25.00		101	81	120				

Sample ID	P180110LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 121320					
Client ID:	LCSW	Batch ID: P18VW007	TestNo: EPA 8260B	Analysis Date: 1/10/2018	SeqNo: 2890757						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	20.010	0.50	20.00	0	100	69	133				
1,2-Dichloroethane	21.420	0.50	20.00	0	107	69	132				
Benzene	20.660	1.0	20.00	0	103	81	122				

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

CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	P180110LCS	SampType:	LCS	TestCode:	8260_WP_SF	Units:	ug/L	Prep Date:		RunNo:	121320
Client ID:	LCSW	Batch ID:	P18VW007	TestNo:	EPA 8260B			Analysis Date:	1/10/2018	SeqNo:	2890757
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	20.310	1.0	20.00	0	102	73	127				
m,p-Xylene	41.140	1.0	40.00	0	103	76	128				
MTBE	17.380	1.0	20.00	0	86.9	65	123				
o-Xylene	20.260	1.0	20.00	0	101	80	121				
Tert-Butanol	73.940	5.0	100.0	0	73.9	70	130				
Toluene	19.540	2.0	20.00	0	97.7	77	122				
Xylenes, Total	61.400	2.0	60.00	0	102	75	125				
Surr: 1,2-Dichloroethane-d4	27.560		25.00		110	72	119				
Surr: 4-Bromofluorobenzene	25.330		25.00		101	76	119				
Surr: Dibromofluoromethane	27.590		25.00		110	85	115				
Surr: Toluene-d8	25.310		25.00		101	81	120				

Qualifiers:

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|---|--|----|-------------------------------------|---|--|
| 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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| S | Spike/Surrogate outside of limits due to matrix interference | DO | Surrogate Diluted Out | | Calculations are based on raw values |

CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID	LCS-66356	SampType:	LCS	TestCode:	8270WATER_	Units:	µg/L	Prep Date:	1/12/2018	RunNo:	121407
Client ID:	LCSW	Batch ID:	66356	TestNo:	EPA 8270C	EPA 3510C		Analysis Date:	1/14/2018	SeqNo:	2893732
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.290	1.0	6.000	0	38.2	24	120				
Surr: 1,2-Dichlorobenzene-d4	0.780		1.000		78.0	16	120				
Surr: 2-Fluorobiphenyl	0.810		1.000		81.0	25	120				
Surr: 4-Terphenyl-d14	1.070		1.000		107	46	132				
Surr: Phenol-d5	0.400		1.000		40.0	15	120				

Sample ID	MB-66356	SampType:	MBLK	TestCode:	8270WATER_	Units:	µg/L	Prep Date:	1/12/2018	RunNo:	121407
Client ID:	PBW	Batch ID:	66356	TestNo:	EPA 8270C	EPA 3510C		Analysis Date:	1/14/2018	SeqNo:	2893733
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	1.0									
Surr: 1,2-Dichlorobenzene-d4	0.660		1.000		66.0	16	120				
Surr: 2-Fluorobiphenyl	0.750		1.000		75.0	25	120				
Surr: 4-Terphenyl-d14	0.960		1.000		96.0	46	132				
Surr: Phenol-d5	0.320		1.000		32.0	15	120				

Sample ID	N027903-001D-MS	SampType:	MS	TestCode:	8270WATER_	Units:	µg/L	Prep Date:	1/12/2018	RunNo:	121407
Client ID:	ZZZZZZ	Batch ID:	66356	TestNo:	EPA 8270C	EPA 3510C		Analysis Date:	1/15/2018	SeqNo:	2893735
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.366	1.1	6.452	0	36.7	24	120				
Surr: 1,2-Dichlorobenzene-d4	0.785		1.075		73.0	16	120				
Surr: 2-Fluorobiphenyl	0.742		1.075		69.0	25	120				
Surr: 4-Terphenyl-d14	1.065		1.075		99.0	46	132				
Surr: Phenol-d5	0.376		1.075		35.0	15	120				

Qualifiers:

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|---|--|----|-------------------------------------|---|--|
| 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 |

CLIENT: CH2MHill
Work Order: N027903
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID	N027903-001D-MSD	SampType: MSD	TestCode: 8270WATER_ Units: µg/L			Prep Date: 1/12/2018			RunNo: 121407		
Client ID:	ZZZZZZ	Batch ID: 66356	TestNo: EPA 8270C		EPA 3510C	Analysis Date: 1/15/2018			SeqNo: 2893736		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.186	1.0	6.186	0	35.3	24	120	2.366	7.91	20	
Surr: 1,2-Dichlorobenzene-d4	0.732		1.031		71.0	16	120		0		
Surr: 2-Fluorobiphenyl	0.753		1.031		73.0	25	120		0		
Surr: 4-Terphenyl-d14	1.041		1.031		101	46	132		0		
Surr: Phenol-d5	0.361		1.031		35.0	15	120		0		

Qualifiers:


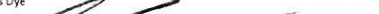
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|---|--|----|-------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation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

1027903

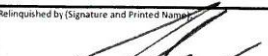
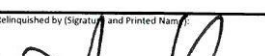


DATE: 1/9/18
PAGE: 1 of 1

Section D

Section D

Company: Kinder Morgan Energy Partners Attention: Steve Defibaugh		Report To: Eric Davis	Invoice Information: Attention: Steve Defibaugh - Ref. AFEH 81195		Sampler Information: 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 eric_davis@rch2m.com		Purchase Order No.:	Address: 1100 Town & Country Road Orange, CA 92868		Signature: 
Phone: 714-560-4802	Fax: 714-560-4801	Project Name: SFPP Norwalk	ATL Project Manager: Marlon Cartin	Sample Date: 11/9/18	

[illegible]

Relinquished by (Signature and Printed Name):  Date / Time: 1/9/18 1330	Relinquished by (Signature and Printed Name):  Date / Time: 1/9/18 1741	Turn Around Time (TAT): <input type="checkbox"/> A = Same Day <input checked="" type="checkbox"/> B = 24 Hours <input 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: 2.68 \pm R # 2
Relinquished by (Signature and Printed Name):  Date / Time: 1/9/18 1800	Relinquished by (Signature and Printed Name):  Date / Time: 1/10/18 8:152		
Matrix: W = Water WW = Wastewater O = Oil P = Product S = Soil Others/Specify:			

630 # : 7656

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: 1/9/2018 Workorder: N027903
Rep sample Temp (Deg C): 2.6 IR Gun ID: 2
Temp Blank: ☒ Yes ☐ No
Carrier name: Golden State Overnight
Last 4 digits of Tracking No.: 7656 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? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: YR  1/10/2018

Reviewed By:  01/10/2018

ASSET Laboratories

WORK ORDER Summary

10-Jan-18

WorkOrder: N027903

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 1/9/2018

Comments: Report metals, TPH and VOC preliminary data on 24-hr TAT. Report Total Xylenes.

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N027903-001A	EFF-01-09	1/9/2018 12:50:00 PM	1/10/2018	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			1/10/2018		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N027903-001B			1/10/2018		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/10/2018		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/10/2018		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N027903-001C			1/10/2018			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/10/2018		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/10/2018		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/10/2018			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N027903-001D			1/16/2018		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/16/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N027903-001E			1/16/2018		SM 5210 B	BIOCHEMICAL OXYGEN DEMAND	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N027903-001F			1/16/2018		SM2540D	TOTAL NON-FILTERABLE RESIDUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
			1/16/2018			Total Suspended Solids Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
			1/16/2018		SM 2130B	TURBIDITY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
N027903-001G			1/16/2018			Oil and Grease Sample Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/16/2018		EPA 1664 _HEM P.O.P.	Hexane Extractable Material (HEM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N027903-001H			1/16/2018		SM4500-NH3C	AMMONIA-N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N027903-001I			1/16/2018		SM2540F	SETTLEABLE MATTER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/16/2018			Settleable Matter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

10-Jan-18

Client ID: CH2HI03

Project: SFPP Norwalk

Comments: Report metals, TPH and VOC preliminary data on 24-hr TAT. Report Total Xylenes.

QC Level: RTNE

WorkOrder: N027903

Date Received: 1/9/2018

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N027903-002A	FOLDER	1/10/2018	1/10/2018		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/10/2018		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555
www.gso.com

Ship From

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

Tracking #: 539037656

CPS

**Ship To**

ASSET LABORATORIES
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

LVS
LAS VEGAS

A

COD: \$0.00

Weight: 0 lb(s)

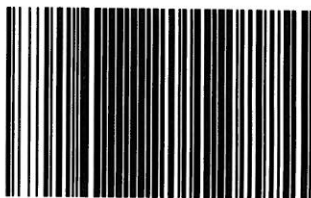
Reference:

C89102A

Delivery Instructions:

HOLD FOR PICKUP

Signature Type: NOT REQUIRED



77723796

3 of 6

Package 3 of 6

Print Date: 1/9/2018 6:58 PM

LABEL INSTRUCTIONS:

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

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the GSO service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gso.com.

2.62
JN # 2



Laboratories, Inc.

Environmental Testing Laboratory Since 1949



Date of Report: 01/18/2018

Molky Brar

ASSET Laboratories

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

Client Project: N027903

BCL Project: Cerritos

BCL Work Order: 1801069

Invoice ID: B291510

Enclosed are the results of analyses for samples received by the laboratory on 1/10/2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval
Client Service Rep

Stuart Buttram
Technical Director

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

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Chain of Custody and Cooler Receipt Form for 1801069 Page 1 of 2

Client: ASSET Laboratories		Report to: Molly Brar		Billing to: Elvira Allegaert/Accounts Payable		EOD Requirement		QA/QC		Sample Receipt Condition	
Address: 11110 Artesia Blvd Ste B		Company: ASSET Laboratories		Address: 11110 Artesia Blvd Ste B		EOD Requirement		QA/QC		Sample Receipt Condition	
Email: molly@assetlaboratories.com		Email: molly@assetlaboratories.com		Address: 11110 Artesia Blvd Ste B		EOD Requirement		QA/QC		Sample Receipt Condition	
Phone: 562.219.7435		Phone: 562.219.7435		Address: 11110 Artesia Blvd Ste B		EOD Requirement		QA/QC		Sample Receipt Condition	
Submitted By: Hanah Glodoviza		Phone: 562.219.7435		Address: 11110 Artesia Blvd Ste B		EOD Requirement		QA/QC		Sample Receipt Condition	
Title:		Phone: 562.219.7435		Address: 11110 Artesia Blvd Ste B		EOD Requirement		QA/QC		Sample Receipt Condition	
Signature:		Date:		Address: 11110 Artesia Blvd Ste B		EOD Requirement		QA/QC		Sample Receipt Condition	
Project Name: SFPP Nonwalk		Signature:		Address: 11110 Artesia Blvd Ste B		EOD Requirement		QA/QC		Sample Receipt Condition	
Project Number: 18-01069		Signature:		Address: 11110 Artesia Blvd Ste B		EOD Requirement		QA/QC		Sample Receipt Condition	
Laboratory Work Order No.		Date:		Address: 11110 Artesia Blvd Ste B		EOD Requirement		QA/QC		Sample Receipt Condition	
Sample ID/Location		Date:		Address: 11110 Artesia Blvd Ste B		EOD Requirement		QA/QC		Sample Receipt Condition	
Item No.		Date:		Address: 11110 Artesia Blvd Ste B		EOD Requirement		QA/QC		Sample Receipt Condition	
1	EFF-01-09	9-Jan	12:50	X							
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

Signature: *[Signature]* **Date:** 1/2/18

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Signature:</

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1801069 Page 2 of 2

BC LABORATORIES INC.		COOLER RECEIPT FORM		Page 1 Of 1							
Submission #: 18-01069											
SHIPPING INFORMATION		SHIPPING CONTAINER		FREE LIQUID							
Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	Ontrac <input type="checkbox"/>	Hand Delivery <input type="checkbox"/>	Ice Chest <input checked="" type="checkbox"/>	None <input type="checkbox"/> Box <input type="checkbox"/>						
BC Lab Field Service <input type="checkbox"/>	Other <input checked="" type="checkbox"/> (Specify) <u>920</u>	Other <input type="checkbox"/> (Specify) _____		YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>							
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input checked="" type="checkbox"/> Containers <input checked="" type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received		Emissivity: <u>0.9</u> Container: <u>PE</u> Thermometer ID: <u>TH274</u>		Date/Time: <u>01/10/18</u>							
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Temperature: (A) <u>2.9</u> °C / (C) <u>3.6</u> °C		Analyst Initials: <u>YML 0839</u>							
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 ⁴											
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											
PMA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 503/508/510											
QT EPA 515.1/515											
QT EPA 525											
QT EPA 525 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.I											
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											
RNCORE											
SMART KIT											
SUMMA CANISTER											

Comments:

Sample Numbering Completed By: 11A

A = Actual / C = Corrected

Date/Time: 1-10 0941

Rev 21 05/23/2016

S:\WP\Doc\WordPerfect\LAB_DOCS\FORMS\SANREC\rev 201

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

Reported: 01/18/2018 14:40
Project: Cerritos
Project Number: N027903
Project Manager: Molky Brar

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1801069-01	COC Number:	---	Receive Date:	01/10/2018 08:39
	Project Number:	---	Sampling Date:	01/09/2018 12:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	EFF-01-09	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water

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

Reported: 01/18/2018 14:40
Project: Cerritos
Project Number: N027903
Project Manager: Molky Brar

Water Analysis (General Chemistry)

BCL Sample ID:	1801069-01	Client Sample Name:	EFF-01-09, 1/9/2018 12:50:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ammonia as N (Distilled)	ND	mg/L	0.20	0.078	SM-4500-NH3G	ND		1
Biochemical Oxygen Demand - Seeded	1.8	mg/L	1.5	1.5	SM17-5210B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-4500-NH3G	01/16/18 08:30	01/17/18 09:50	JMH	SC-1	1	B002030
2	SM17-5210B	01/11/18 06:40	01/11/18 06:40	HPR	YSIPRO	1.525	B002156

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949



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

Reported: 01/18/2018 14:40
Project: Cerritos
Project Number: N027903
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: B002030						
Ammonia as N (Distilled)	B002030-BLK1	ND	mg/L	0.20	0.078	
QC Batch ID: B002156						
Biochemical Oxygen Demand - Seeded	B002156-BLK1	ND	mg/L	1.0	1.0	

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

Reported: 01/18/2018 14:40
Project: Cerritos
Project Number: N027903
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: B002030										
Ammonia as N (Distilled)	B002030-BS1	LCS	0.95090	1.0000	mg/L	95.1		85 - 115		
QC Batch ID: B002156										
Biochemical Oxygen Demand - Seeded	B002156-BS1	LCS	203.59	198.00	mg/L	103		85 - 115		

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

Reported: 01/18/2018 14:40
Project: Cerritos
Project Number: N027903
Project Manager: Molky Brar

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

									Control Limits		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: B002030		Used client sample: N									
Ammonia as N (Distilled)	DUP	1801538-02	0.17190	0.16500		mg/L	4.1		20		J
	MS	1801538-02	0.17190	1.0364	1.0000	mg/L		86.4		80 - 120	
	MSD	1801538-02	0.17190	1.0809	1.0000	mg/L	4.2	90.9	20	80 - 120	
QC Batch ID: B002156		Used client sample: N									
Biochemical Oxygen Demand - Seeded	DUP	1801063-01	15.819	14.701		mg/L	7.3		20		

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

Reported: 01/18/2018 14:40
Project: Cerritos
Project Number: N027903
Project Manager: Molky Brar

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Laboratories, Inc.

Environmental Testing Laboratory Since 1949



Date of Report: 01/19/2018

Marlon Cartin

ASSET Laboratories

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

Client Project: N027903
BCL Project: CH2MHILL
BCL Work Order: 1801069
Invoice ID: B291510

Enclosed are the results of analyses for samples received by the laboratory on 1/10/2018. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1000697097

Sincerely,

Contact Person: Vanessa Sandoval
Client Service Rep

Stuart Buttram
Technical Director

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

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Water Analysis (General Chemistry)

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1801069 Page 2 of 2

BC LABORATORIES INC.		COOLER RECEIPT FORM		Page 1 Of 1							
Submission #: 18-01069											
SHIPPING INFORMATION		SHIPPING CONTAINER		FREE LIQUID							
Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	Ontrac <input type="checkbox"/>	Hand Delivery <input type="checkbox"/>	Ice Chest <input checked="" type="checkbox"/>	None <input type="checkbox"/> Box <input type="checkbox"/>						
BC Lab Field Service <input type="checkbox"/>	Other <input checked="" type="checkbox"/> (Specify) <u>920</u>	Other <input type="checkbox"/> (Specify) _____		YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>							
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input checked="" type="checkbox"/> Containers <input checked="" type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received		Emissivity: <u>0.9</u> Container: <u>PE</u> Thermometer ID: <u>TH274</u>		Date/Time <u>01/10/18</u>							
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Temperature: (A) <u>2.9</u> °C / (C) <u>3.6</u> °C		Analyst Initial <u>YML</u> <u>0839</u>							
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 ⁴											
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											
PMA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 503/508/510											
QT EPA 515.1/515											
QT EPA 525											
QT EPA 525 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.I											
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											
RNCORE											
SMART KIT											
SUMMA CANISTER											

Comments:

Sample Numbering Completed By: 11A

A = Actual / C = Corrected

Date/Time: 1-10 0941

Rev 21 05/23/2016

S:\WP\Doc\WordPerfect\LAB_DOCS\FORMS\CHAINRECrev 201

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949



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

Reported: 01/19/2018 14:00
Project: CH2MHILL
Project Number: N027903
Project Manager: Marlon Cartin

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1801069-01	COC Number:	---	Receive Date:	01/10/2018 08:39
	Project Number:	---	Sampling Date:	01/09/2018 12:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	EFF-01-09	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949



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

Reported: 01/19/2018 14:00
Project: CH2MHILL
Project Number: N027903
Project Manager: Marlon Cartin

Water Analysis (General Chemistry)

BCL Sample ID:	1801069-01	Client Sample Name:	EFF-01-09, 1/9/2018 12:50:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ammonia as N (Distilled)	ND	mg/L	0.20		SM-4500-NH3G	ND		1
Biochemical Oxygen Demand - Seeded	1.8	mg/L	1.5		SM17-5210B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-4500-NH3G	01/16/18 08:30	01/17/18 09:50	JMH	SC-1	1	B002030
2	SM17-5210B	01/11/18 06:40	01/11/18 06:40	HPR	YSIPRO	1.525	B002156

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

Reported: 01/19/2018 14:00
Project: CH2MHILL
Project Number: N027903
Project Manager: Marlon Cartin

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B002030						
Ammonia as N (Distilled)	B002030-BLK1	ND	mg/L	0.20		
QC Batch ID: B002156						
Biochemical Oxygen Demand - Seeded	B002156-BLK1	ND	mg/L	1.0		

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949



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

Reported: 01/19/2018 14:00
Project: CH2MHILL
Project Number: N027903
Project Manager: Marlon Cartin

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: B002030										
Ammonia as N (Distilled)	B002030-BS1	LCS	0.95090	1.0000	mg/L	95.1		85 - 115		
QC Batch ID: B002156										
Biochemical Oxygen Demand - Seeded	B002156-BS1	LCS	203.59	198.00	mg/L	103		85 - 115		

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

Reported: 01/19/2018 14:00
Project: CH2MHILL
Project Number: N027903
Project Manager: Marlon Cartin

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

									Control Limits		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: B002030		Used client sample: N									
Ammonia as N (Distilled)	DUP	1801538-02	0.17190	ND		mg/L			20		
	MS	1801538-02	0.17190	1.0364	1.0000	mg/L		86.4		80 - 120	
	MSD	1801538-02	0.17190	1.0809	1.0000	mg/L	4.2	90.9	20	80 - 120	
QC Batch ID: B002156		Used client sample: N									
Biochemical Oxygen Demand - Seeded	DUP	1801063-01	15.819	14.701		mg/L	7.3		20		

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

Reported: 01/19/2018 14:00
Project: CH2MHILL
Project Number: N027903
Project Manager: Marlon Cartin

Notes And Definitions

MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit

February 13, 2018

Eric Davis
CH2MHill
1000 Wilshire Blvd.
Los Angeles, CA 90017

TEL:

FAX:

Workorder No.: N028452

RE: SFPP Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on February 06, 2018 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,



Quennie Manimtim
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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CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N028452

CASE NARRATIVE**SAMPLE RECEIVING/GENERAL COMMENTS:**

All sample containers were received intact with proper chain of custody documentation.

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

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

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.

Analytical Comments for EPA 8260B:

Laboratory Control Sample (LCS), Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries biased high for Tert-Butanol. Sample result was non-detect (ND) for this analyte therefore reanalysis of the sample was not necessary.



ASSET Laboratories

Date: 13-Feb-18

CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N028452
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N028452-001A	EFF-02-06	Wastewater	2/6/2018	2/6/2018	2/13/2018
N028452-001B	EFF-02-06	Wastewater	2/6/2018	2/6/2018	2/13/2018
N028452-001C	EFF-02-06	Wastewater	2/6/2018	2/6/2018	2/13/2018
N028452-001D	EFF-02-06	Wastewater	2/6/2018	2/6/2018	2/13/2018



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ASSET Laboratories
ANALYTICAL RESULTS

Print Date: 13-Feb-18

CLIENT: CH2MHill
Lab Order: N028452
Project: SFPP Norwalk
Lab ID: N028452-001

Client Sample ID: EFF-02-06
Collection Date: 2/6/2018
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA 3510C
EPA 8270C

RunID: NV00922-MS9_180209A	QC Batch: 66746	PrepDate	2/9/2018	Analyst: MJM		
Phenol	ND	0.33	1.0	µg/L	1	2/9/2018 05:01 PM
Surr: 1,2-Dichlorobenzene-d4	66.0	0	16-120	%REC	1	2/9/2018 05:01 PM
Surr: 2-Fluorobiphenyl	68.0	0	25-120	%REC	1	2/9/2018 05:01 PM
Surr: 4-Terphenyl-d14	91.0	0	46-132	%REC	1	2/9/2018 05:01 PM
Surr: Phenol-d5	26.0	0	15-120	%REC	1	2/9/2018 05:01 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA 8260B

RunID: NV00922-MS5_180207A	QC Batch: P18VW018	PrepDate	Analyst: QBM			
1,1-Dichloroethane	ND	0.45	0.50	ug/L	1	2/7/2018 01:28 PM
1,2-Dichloroethane	ND	0.29	0.50	ug/L	1	2/7/2018 01:28 PM
Benzene	ND	0.34	1.0	ug/L	1	2/7/2018 01:28 PM
Ethylbenzene	ND	0.31	1.0	ug/L	1	2/7/2018 01:28 PM
m,p-Xylene	ND	0.23	1.0	ug/L	1	2/7/2018 01:28 PM
MTBE	ND	0.34	1.0	ug/L	1	2/7/2018 01:28 PM
o-Xylene	ND	0.31	1.0	ug/L	1	2/7/2018 01:28 PM
Tert-Butanol	ND	2.4	5.0	ug/L	1	2/7/2018 01:28 PM
Toluene	ND	0.46	2.0	ug/L	1	2/7/2018 01:28 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	2/7/2018 01:28 PM
Surr: 1,2-Dichloroethane-d4	98.6	0	72-119	%REC	1	2/7/2018 01:28 PM
Surr: 4-Bromofluorobenzene	93.6	0	76-119	%REC	1	2/7/2018 01:28 PM
Surr: Dibromofluoromethane	97.5	0	85-115	%REC	1	2/7/2018 01:28 PM
Surr: Toluene-d8	97.2	0	81-120	%REC	1	2/7/2018 01:28 PM

TPH EXTRACTABLE BY GC/FID
EPA 3510C
EPA 8015B

RunID: NV00922-GC1_180207A	QC Batch: 66709	PrepDate	2/7/2018	Analyst: SS			
TPH-Diesel (C13-C22)	ND	16	26	ug/L	1	2/7/2018 04:58 PM	
TPH-Oil (C23-C36)	14	14	26	J	ug/L	1	2/7/2018 04:58 PM
Surr: Octacosane	107	0	26-152	%REC	1	2/7/2018 04:58 PM	
Surr: p-Terphenyl	104	0	57-132	%REC	1	2/7/2018 04:58 PM	

GASOLINE RANGE ORGANICS BY GC/FID
EPA 8015B

RunID: NV00922-GC4_180207A	QC Batch: E18VW013	PrepDate	Analyst: QBM			
TPH-Gasoline (C4-C12)	ND	16	50	ug/L	1	2/7/2018 01:27 PM

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 RESULTS

Print Date: 13-Feb-18

CLIENT: CH2MHill
Lab Order: N028452
Project: SFPP Norwalk
Lab ID: N028452-001

Client Sample ID: EFF-02-06
Collection Date: 2/6/2018
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

GASOLINE RANGE ORGANICS BY GC/FID
EPA 8015B

RunID: NV00922-GC4_180207A	QC Batch: E18VW013			PrepDate		Analyst: QBM
Surr: Chlorobenzene - d5	112	0	74-138	%REC	1	2/7/2018 01:27 PM

MERCURY BY COLD VAPOR TECHNIQUE
EPA 245.1

RunID: NV00922-AA1_180207A	QC Batch: 66701			PrepDate	2/7/2018	Analyst: MG
Mercury	ND	0.018	0.050	µg/L	1	2/7/2018 11:46 AM

TOTAL METALS BY ICPMS
EPA 200.8

RunID: NV00922-ICP7_180207A	QC Batch: 66702			PrepDate	2/7/2018	Analyst: CEI
Copper	ND	0.26	0.50	µg/L	1	2/7/2018 12:13 PM
Lead	ND	0.13	0.50	µg/L	1	2/7/2018 12:13 PM
Zinc	1.1	0.27	1.0	µg/L	1	2/7/2018 12:13 PM

TOTAL TPH
EPA 8015B

RunID: NV00922-GC1_180207A	QC Batch: R121910			PrepDate		Analyst: SS
Total TPH	ND	16	50	ug/L	1	2/7/2018

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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CLIENT: CH2MHill
Work Order: N028452
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT**TestCode: 200.8_W_SFPP**

Sample ID MB-66702	SampType: MBLK	TestCode: 200.8_W_SF	Units: µg/L	Prep Date: 2/7/2018	RunNo: 121893
Client ID: PBW	Batch ID: 66702	TestNo: EPA 200.8		Analysis Date: 2/7/2018	SeqNo: 2922539
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			
Zinc	ND	1.0			

Sample ID N028452-001C-DUP	SampType: DUP	TestCode: 200.8_W_SF	Units: µg/L	Prep Date: 2/7/2018	RunNo: 121893
Client ID: ZZZZZZ	Batch ID: 66702	TestNo: EPA 200.8		Analysis Date: 2/7/2018	SeqNo: 2922543
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Copper	ND	0.50			0 0 20
Lead	ND	0.50			0 0 20
Zinc	0.718	1.0			1.069 0 20 J

Sample ID N028452-001C-MS	SampType: MS	TestCode: 200.8_W_SF	Units: µg/L	Prep Date: 2/7/2018	RunNo: 121893
Client ID: ZZZZZZ	Batch ID: 66702	TestNo: EPA 200.8		Analysis Date: 2/7/2018	SeqNo: 2922545
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Copper	7.603	0.50	10.00	0	76.0 75 125
Lead	10.203	0.50	10.00	0	102 75 125
Zinc	110.056	1.0	100.0	1.069	109 75 125

Sample ID N028452-001C-MSD	SampType: MSD	TestCode: 200.8_W_SF	Units: µg/L	Prep Date: 2/7/2018	RunNo: 121893
Client ID: ZZZZZZ	Batch ID: 66702	TestNo: EPA 200.8		Analysis Date: 2/7/2018	SeqNo: 2922546
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Copper	7.639	0.50	10.00	0	76.4 75 125 7.603 0.465 20
Lead	10.154	0.50	10.00	0	102 75 125 10.20 0.488 20
Zinc	109.698	1.0	100.0	1.069	109 75 125 110.1 0.326 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

CLIENT: CH2MHill
Work Order: N028452
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID	LCS-66702	SampType:	LCS	TestCode:	200.8_W_SF	Units:	µg/L	Prep Date:	2/7/2018	RunNo:	121893	
Client ID:	LCSW	Batch ID:	66702	TestNo:	EPA 200.8			Analysis Date:	2/7/2018	SeqNo:	2922547	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		9.800	0.50	10.00	0	98.0	85	115				
Lead		9.748	0.50	10.00	0	97.5	85	115				
Zinc		90.313	1.0	100.0	0	90.3	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 |

CLIENT: CH2MHill
Work Order: N028452
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID	MB-66701	SampType:	MBLK	TestCode:	245.1_W_LL	Units:	µg/L	Prep Date:	2/7/2018	RunNo:	121896
Client ID:	PBW	Batch ID:	66701	TestNo:	EPA 245.1			Analysis Date:	2/7/2018	SeqNo:	2922582
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Mercury ND 0.050

Sample ID	LCS-66701	SampType:	LCS	TestCode:	245.1_W_LL	Units:	µg/L	Prep Date:	2/7/2018	RunNo:	121896
Client ID:	LCSW	Batch ID:	66701	TestNo:	EPA 245.1			Analysis Date:	2/7/2018	SeqNo:	2922583
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Mercury 2.242 0.050 2.500 0 89.7 85 115

Sample ID	N028452-001C-MS	SampType:	MS	TestCode:	245.1_W_LL	Units:	µg/L	Prep Date:	2/7/2018	RunNo:	121896
Client ID:	ZZZZZZ	Batch ID:	66701	TestNo:	EPA 245.1			Analysis Date:	2/7/2018	SeqNo:	2922584
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Mercury 2.086 0.050 2.500 0 83.4 75 125

Sample ID	N028452-001C-MSD	SampType:	MSD	TestCode:	245.1_W_LL	Units:	µg/L	Prep Date:	2/7/2018	RunNo:	121896
Client ID:	ZZZZZZ	Batch ID:	66701	TestNo:	EPA 245.1			Analysis Date:	2/7/2018	SeqNo:	2922585
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Mercury 2.236 0.050 2.500 0 89.5 75 125 2.086 6.96 20

Sample ID	N028452-001C-DUP	SampType:	DUP	TestCode:	245.1_W_LL	Units:	µg/L	Prep Date:	2/7/2018	RunNo:	121896
Client ID:	ZZZZZZ	Batch ID:	66701	TestNo:	EPA 245.1			Analysis Date:	2/7/2018	SeqNo:	2922587
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Mercury ND 0.050 0 0 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 |

CLIENT: CH2MHill
Work Order: N028452
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID	MB-66709	SampType:	MBLK	TestCode:	8015_W_FP_	Units:	ug/L	Prep Date:	2/7/2018	RunNo:	121910			
Client ID:	PBW	Batch ID:	66709	TestNo:	EPA 8015B	EPA 3510C		Analysis Date:	2/7/2018	SeqNo:	2922812			
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)		ND		25										
Surr: Octacosane		71.549			80.00			89.4	26	152				
Surr: p-Terphenyl		69.614			80.00			87.0	57	132				

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 |

CLIENT: CH2MHill
Work Order: N028452
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID	MB-R121910	SampType:	MBLK	TestCode:	8015_W_SFP	Units:	ug/L	Prep Date:		RunNo:	121910		
Client ID:	PBW	Batch ID:	R121910	TestNo:	EPA 8015B			Analysis Date:	2/7/2018	SeqNo:	2923138		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH		ND		50									

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 |

CLIENT: CH2MHill
Work Order: N028452
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID	E180207LCS	SampType:	LCS	TestCode:	8015GAS_W	Units:	ug/L	Prep Date:		RunNo:	121904			
Client ID:	LCSW	Batch ID:	E18VW013	TestNo:	EPA 8015B			Analysis Date:	2/7/2018	SeqNo:	2922744			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)		772.000		50	1000	0		77.2	67	136				
Surr: Chlorobenzene - d5		46530.000			50000			93.1	74	138				

Sample ID	E180207MB1	SampType:	MBLK	TestCode:	8015GAS_W	Units:	ug/L	Prep Date:		RunNo:	121904			
Client ID:	PBW	Batch ID:	E18VW013	TestNo:	EPA 8015B			Analysis Date:	2/7/2018	SeqNo:	2922745			
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		58331.000			50000			117	74	138				

Sample ID	N028452-001AMS	SampType:	MS	TestCode:	8015GAS_W	Units:	ug/L	Prep Date:		RunNo:	121904			
Client ID:	ZZZZZZ	Batch ID:	E18VW013	TestNo:	EPA 8015B			Analysis Date:	2/7/2018	SeqNo:	2922747			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)		918.000		50	1000	0		91.8	67	136				
Surr: Chlorobenzene - d5		53500.000			50000			107	74	138				

Sample ID	N028452-001AMSD	SampType: MSD	TestCode: 8015GAS_W	Units: ug/L	Prep Date:				RunNo: 121904		
Client ID:	ZZZZZZ	Batch ID: E18VW013	TestNo: EPA 8015B	Analysis Date: 2/7/2018				SeqNo: 2922748			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	844.000	50	1000	0	84.4	67	136	918.0	8.40	30	
Surr: Chlorobenzene - d5	50635.000		50000		101	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 |
| 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 |

CLIENT: CH2MHill
Work Order: N028452
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	P180207LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:				RunNo: 121906		
Client ID:	LCSW	Batch ID: P18VW018	TestNo: EPA 8260B	Analysis Date: 2/7/2018				SeqNo: 2922755			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	19.940	0.50	20.00	0	99.7	69	133				
1,2-Dichloroethane	19.750	0.50	20.00	0	98.8	69	132				
Benzene	21.550	1.0	20.00	0	108	81	122				
Ethylbenzene	22.220	1.0	20.00	0	111	73	127				
m,p-Xylene	45.740	1.0	40.00	0	114	76	128				
MTBE	20.380	1.0	20.00	0	102	65	123				
o-Xylene	21.770	1.0	20.00	0	109	80	121				
Tert-Butanol	145.930	5.0	100.0	0	146	70	130				S
Toluene	20.100	2.0	20.00	0	101	77	122				
Xylenes, Total	67.510	2.0	60.00	0	113	75	125				
Surr: 1,2-Dichloroethane-d4	23.960		25.00		95.8	72	119				
Surr: 4-Bromofluorobenzene	25.860		25.00		103	76	119				
Surr: Dibromofluoromethane	23.970		25.00		95.9	85	115				
Surr: Toluene-d8	24.930		25.00		99.7	81	120				

Sample ID	N028452-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:				RunNo: 121906		
Client ID:	ZZZZZZ	Batch ID: P18VW018	TestNo: EPA 8260B		Analysis Date: 2/7/2018				SeqNo: 2922756		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	18.800	0.50	20.00	0	94.0	69	133				
1,2-Dichloroethane	19.990	0.50	20.00	0	100	69	132				
Benzene	19.990	1.0	20.00	0	100	81	122				
Ethylbenzene	19.560	1.0	20.00	0	97.8	73	127				
m,p-Xylene	39.360	1.0	40.00	0	98.4	76	128				
MTBE	19.960	1.0	20.00	0	99.8	65	123				
o-Xylene	19.070	1.0	20.00	0	95.4	80	121				
Tert-Butanol	134.130	5.0	100.0	0	134	70	130				S
Toluene	18.630	2.0	20.00	0	93.2	77	122				
Xylenes, Total	58.430	2.0	60.00	0	97.4	75	125				
Surr: 1,2-Dichloroethane-d4	24.230		25.00		96.9	72	119				

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 |

CLIENT: CH2MHill
Work Order: N028452
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	N028452-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 121906					
Client ID:	ZZZZZZ	Batch ID: P18VW018	TestNo: EPA 8260B	Analysis Date: 2/7/2018	SeqNo: 2922756						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	24.120		25.00		96.5	76	119				
Surr: Dibromofluoromethane	23.620		25.00		94.5	85	115				
Surr: Toluene-d8	24.900		25.00		99.6	81	120				

Sample ID	N028452-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:				RunNo: 121906		
Client ID:	ZZZZZZ	Batch ID: P18VW018	TestNo: EPA 8260B	Analysis Date: 2/7/2018				SeqNo: 2922757			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	19.710	0.50	20.00	0	98.6	69	133	18.80	4.73	20	
1,2-Dichloroethane	20.610	0.50	20.00	0	103	69	132	19.99	3.05	20	
Benzene	21.410	1.0	20.00	0	107	81	122	19.99	6.86	20	
Ethylbenzene	20.950	1.0	20.00	0	105	73	127	19.56	6.86	20	
m,p-Xylene	42.590	1.0	40.00	0	106	76	128	39.36	7.88	20	
MTBE	19.910	1.0	20.00	0	99.6	65	123	19.96	0.251	20	
o-Xylene	20.780	1.0	20.00	0	104	80	121	19.07	8.58	20	
Tert-Butanol	138.050	5.0	100.0	0	138	70	130	134.1	2.88	20	S
Toluene	19.980	2.0	20.00	0	99.9	77	122	18.63	6.99	20	
Xylenes, Total	63.370	2.0	60.00	0	106	75	125	58.43	8.11	20	
Surr: 1,2-Dichloroethane-d4	24.560		25.00		98.2	72	119		0		
Surr: 4-Bromofluorobenzene	25.190		25.00		101	76	119		0		
Surr: Dibromofluoromethane	24.000		25.00		96.0	85	115		0		
Surr: Toluene-d8	25.330		25.00		101	81	120		0		

Sample ID	P180207MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 121906					
Client ID:	PBW	Batch ID: P18VW018	TestNo: EPA 8260B	Analysis Date: 2/7/2018	SeqNo: 2922760						
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									
Benzene	ND	1.0									

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

CLIENT: CH2MHill
Work Order: N028452
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	P180207MB3	SampType:	MBLK	TestCode:	8260_WP_SF	Units:	ug/L	Prep Date:		RunNo:	121906			
Client ID:	PBW	Batch ID:	P18VW018	TestNo:	EPA 8260B			Analysis Date:	2/7/2018	SeqNo:	2922760			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene		ND		1.0										
m,p-Xylene		ND		1.0										
MTBE		ND		1.0										
o-Xylene		ND		1.0										
Tert-Butanol		ND		5.0										
Toluene		ND		2.0										
Xylenes, Total		ND		2.0										
Surr: 1,2-Dichloroethane-d4		24.960			25.00			99.8	72	119				
Surr: 4-Bromofluorobenzene		24.550			25.00			98.2	76	119				
Surr: Dibromofluoromethane		24.270			25.00			97.1	85	115				
Surr: Toluene-d8		25.100			25.00			100	81	120				

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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CLIENT: CH2MHill
Work Order: N028452
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID	LCS-66746	SampType:	LCS	TestCode:	8270WATER_	Units:	µg/L	Prep Date:	2/9/2018	RunNo:	121969
Client ID:	LCSW	Batch ID:	66746	TestNo:	EPA 8270C	EPA 3510C		Analysis Date:	2/9/2018	SeqNo:	2926238
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	1.920	1.0	6.000	0	32.0	24	120				
Surr: 1,2-Dichlorobenzene-d4	0.630		1.000		63.0	16	120				
Surr: 2-Fluorobiphenyl	0.610		1.000		61.0	25	120				
Surr: 4-Terphenyl-d14	0.880		1.000		88.0	46	132				
Surr: Phenol-d5	0.300		1.000		30.0	15	120				

Sample ID	MB-66746	SampType:	MBLK	TestCode:	8270WATER_	Units:	µg/L	Prep Date:	2/9/2018	RunNo:	121969
Client ID:	PBW	Batch ID:	66746	TestNo:	EPA 8270C	EPA 3510C		Analysis Date:	2/9/2018	SeqNo:	2926238
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	1.0									
Surr: 1,2-Dichlorobenzene-d4	0.800		1.000		80.0	16	120				
Surr: 2-Fluorobiphenyl	0.710		1.000		71.0	25	120				
Surr: 4-Terphenyl-d14	0.980		1.000		98.0	46	132				
Surr: Phenol-d5	0.290		1.000		29.0	15	120				

Sample ID	N028452-001D-MS	SampType:	MS	TestCode:	8270WATER_	Units:	µg/L	Prep Date:	2/9/2018	RunNo:	121969
Client ID:	ZZZZZZ	Batch ID:	66746	TestNo:	EPA 8270C	EPA 3510C		Analysis Date:	2/9/2018	SeqNo:	2926241
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.300	1.0	6.000	0	38.3	24	120				
Surr: 1,2-Dichlorobenzene-d4	0.730		1.000		73.0	16	120				
Surr: 2-Fluorobiphenyl	0.710		1.000		71.0	25	120				
Surr: 4-Terphenyl-d14	0.920		1.000		92.0	46	132				
Surr: Phenol-d5	0.310		1.000		31.0	15	120				

Qualifiers:

- | | | | | | |
|---|--|----|-------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
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CLIENT: CH2MHill
Work Order: N028452
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT


Sample ID	N028452-001D-MSD	SampType: MSD	TestCode: 8270WATER_ Units: µg/L			Prep Date: 2/9/2018			RunNo: 121969		
Client ID:	ZZZZZZ	Batch ID: 66746	TestNo: EPA 8270C		EPA 3510C	Analysis Date: 2/9/2018			SeqNo: 2926242		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.220	1.0	6.000	0	37.0	24	120	2.300	3.54	20	
Surr: 1,2-Dichlorobenzene-d4	0.660		1.000		66.0	16	120		0		
Surr: 2-Fluorobiphenyl	0.700		1.000		70.0	25	120		0		
Surr: 4-Terphenyl-d14	0.930		1.000		93.0	46	132		0		
Surr: Phenol-d5	0.310		1.000		31.0	15	120		0		

Qualifiers:



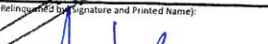

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|---|--|----|-------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
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Asset Laboratories
3151 W. Post Road
Las Vegas, NV 89118
Tel: 702-307-2659 Fax: 702-307-2691
Marlon Cartin (marlon@assetlaboratories.com)

CH2HI03 C: 2/7/2018 12:00 AM
FOLDER R: 2/6/2018
N028452-002A 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: Eric Davis		Attention: Steve Defibaugh - Ref. AFE# 81195		Sampler: James Dye	
Address: 1100 Town & Country Road Orange, CA 92868		Copy To: Steve Defibaugh		Company: Kinder Morgan Energy Partners		Name: 	
Email To: steve_defibaugh@kindermorgan.com eric_davis@ch2m.com		Purchase Order No.:		Name:		Sampler:	
Phone: 714-560-4802 Fax: 714-560-4801		Project Name: SFPP Norwalk		Address: 1100 Town & Country Road Orange, CA 92868		Signature:	
				ATL Project: Marion Carlin		Sample:	
				Manager:		Date: 2/6/18	

[illegible]

Relinquished by (Signature and Printed Name):  Date / Time: 2/6/18 1345		Relinquished by (Signature and Printed Name):  Date / Time: 2/6/18 1345		Turn Around Time (TAT): <input type="checkbox"/> A = Same Day <input checked="" type="checkbox"/> B = 24 Hours <input 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:	
Relinquished by (Signature and Printed Name):  Date / Time: 2/6/18 1600		Relinquished by (Signature and Printed Name):  Date / Time: 2/7/18 8:10 AM					

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

~~FBI~~ ^{GSS DA} # 2278

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: 2/6/2018 Workorder: N028452
Rep sample Temp (Deg C): 1.7 IR Gun ID: 2
Temp Blank: ☒ Yes ☐ No
Carrier name: Golden State Overnight
Last 4 digits of Tracking No.: 2278 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?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Was Client notified?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments:

Checklist Completed B

DA



2/7/18

Reviewed By:



02/07/2018

ASSET Laboratories

WORK ORDER Summary

07-Feb-18

WorkOrder: N028452

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 2/6/2018

Comments: Report metals, TPH and VOC preliminary data on 24-hr TAT. Report Total Xylenes.

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N028452-001A	EFF-02-06	2/6/2018	2/7/2018	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			2/7/2018		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N028452-001B			2/7/2018		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/7/2018		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/7/2018		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N028452-001C			2/7/2018			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/7/2018		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/7/2018		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/7/2018			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N028452-001D			2/13/2018		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/13/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N028452-002A	FOLDER	2/7/2018	2/7/2018	Folder	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			2/7/2018	Folder	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555
www.gso.com

Ship From

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

Tracking #: 539372278

CPS

**Ship To**

ASSET LABORATORIES
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

LVS
LAS VEGAS

A

COD: \$0.00

Weight: 0 lb(s)

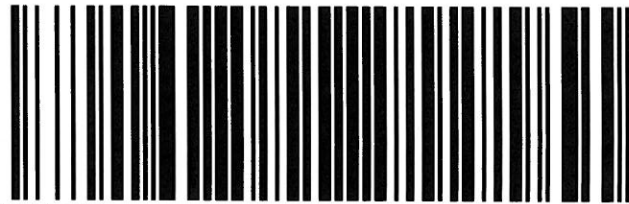
Reference:

C89102A

Delivery Instructions:

HOLD FOR PICKUP

Signature Type: STANDARD



79075656

Print Date: 2/6/2018 5:24 PM

LABEL INSTRUCTIONS:

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

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the GSO service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gso.com.

March 13, 2018

Eric Davis
CH2MHill
1000 Wilshire Blvd.
Los Angeles, CA 90017

TEL:

FAX:

Workorder No.: N028951

RE: SFPP Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on March 06, 2018 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,



Quennie Manimtim
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



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CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N028951

CASE NARRATIVE**SAMPLE RECEIVING/GENERAL COMMENTS:**

All sample containers were received intact with proper chain of custody documentation.

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

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

Sample was 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.

Analytical Comment for EPA 8015B_DRO/ORO:

Method Blank has hit above the reporting limit; however the results were non-detect (ND) for analytes of interest and reanalysis of the sample was not necessary.



ASSET Laboratories

Date: 13-Mar-18

CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N028951
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N028951-001A	EFF-03-06	Wastewater	3/6/2018 10:10:00 AM	3/6/2018	3/13/2018
N028951-001B	EFF-03-06	Wastewater	3/6/2018 10:10:00 AM	3/6/2018	3/13/2018
N028951-001C	EFF-03-06	Wastewater	3/6/2018 10:10:00 AM	3/6/2018	3/13/2018
N028951-001D	EFF-03-06	Wastewater	3/6/2018 10:10:00 AM	3/6/2018	3/13/2018



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ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 13-Mar-18

CLIENT: CH2MHill
 Lab Order: N028951
 Project: SFPP Norwalk
 Lab ID: N028951-001

Client Sample ID: EFF-03-06
 Collection Date: 3/6/2018 10:10:00 AM
 Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 3510C				EPA 8270C			
RunID: NV00922-MS9_180312A	QC Batch: 67100			PrepDate: 3/9/2018		Analyst: MJM	
Phenol	ND	0.33	1.0	µg/L	1	3/12/2018 09:18 PM	
Surr: 1,2-Dichlorobenzene-d4	59.0	0	16-120	%REC	1	3/12/2018 09:18 PM	
Surr: 2-Fluorobiphenyl	70.0	0	25-120	%REC	1	3/12/2018 09:18 PM	
Surr: 4-Terphenyl-d14	71.0	0	46-132	%REC	1	3/12/2018 09:18 PM	
Surr: Phenol-d5	31.0	0	15-120	%REC	1	3/12/2018 09:18 PM	
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
				EPA 8260B			
RunID: NV00922-MS5_180307A	QC Batch: P18VW034			PrepDate:		Analyst: QBM	
1,1-Dichloroethane	ND	0.45	0.50	ug/L	1	3/7/2018 12:45 PM	
1,2-Dichloroethane	ND	0.29	0.50	ug/L	1	3/7/2018 12:45 PM	
Benzene	ND	0.34	1.0	ug/L	1	3/7/2018 12:45 PM	
Ethylbenzene	ND	0.31	1.0	ug/L	1	3/7/2018 12:45 PM	
m,p-Xylene	ND	0.23	1.0	ug/L	1	3/7/2018 12:45 PM	
MTBE	ND	0.34	1.0	ug/L	1	3/7/2018 12:45 PM	
o-Xylene	ND	0.31	1.0	ug/L	1	3/7/2018 12:45 PM	
Tert-Butanol	ND	2.4	5.0	ug/L	1	3/7/2018 12:45 PM	
Toluene	ND	0.46	2.0	ug/L	1	3/7/2018 12:45 PM	
Xylenes, Total	ND	1.5	2.0	ug/L	1	3/7/2018 12:45 PM	
Surr: 1,2-Dichloroethane-d4	104	0	72-119	%REC	1	3/7/2018 12:45 PM	
Surr: 4-Bromofluorobenzene	102	0	76-119	%REC	1	3/7/2018 12:45 PM	
Surr: Dibromofluoromethane	95.5	0	85-115	%REC	1	3/7/2018 12:45 PM	
Surr: Toluene-d8	100	0	81-120	%REC	1	3/7/2018 12:45 PM	
TPH EXTRACTABLE BY GC/FID							
EPA 3510C				EPA 8015B			
RunID: NV00922-GC1_180307A	QC Batch: 67060			PrepDate: 3/7/2018		Analyst: SS	
TPH-Diesel (C13-C22)	ND	15	25	ug/L	1	3/7/2018 03:20 PM	
TPH-Oil (C23-C36)	19	14	25	J ug/L	1	3/7/2018 03:20 PM	
Surr: Octacosane	98.0	0	26-152	%REC	1	3/7/2018 03:20 PM	
Surr: p-Terphenyl	96.4	0	57-132	%REC	1	3/7/2018 03:20 PM	
GASOLINE RANGE ORGANICS BY GC/FID							
				EPA 8015B			
RunID: NV00922-GC4_180307A	QC Batch: E18VW020			PrepDate:		Analyst: QBM	
TPH-Gasoline (C4-C12)	ND	16	50	ug/L	1	3/7/2018 01:13 PM	

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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ASSET Laboratories
ANALYTICAL RESULTS

Print Date: 13-Mar-18

CLIENT: CH2MHill
Lab Order: N028951
Project: SFPP Norwalk
Lab ID: N028951-001

Client Sample ID: EFF-03-06
Collection Date: 3/6/2018 10:10:00 AM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID							
EPA 8015B							
RunID: NV00922-GC4_180307A	QC Batch: E18VW020				PrepDate:		Analyst: QBM
Surr: Chlorobenzene - d5	125	0	74-138		%REC	1	3/7/2018 01:13 PM
MERCURY BY COLD VAPOR TECHNIQUE							
EPA 245.1							
RunID: NV00922-AA1_180307A	QC Batch: 67057				PrepDate:	3/7/2018	Analyst: CEI
Mercury	ND	0.018	0.050		µg/L	1	3/7/2018 01:03 PM
TOTAL METALS BY ICPMS							
EPA 200.8							
RunID: NV00922-ICP7_180307A	QC Batch: 67051				PrepDate:	3/7/2018	Analyst: CEI
Copper	ND	0.26	0.50		µg/L	1	3/7/2018 01:32 PM
Lead	ND	0.13	0.50		µg/L	1	3/7/2018 01:32 PM
Zinc	ND	0.27	1.0		µg/L	1	3/7/2018 01:32 PM
TOTAL TPH							
EPA 8015B							
RunID: NV00922-GC1_180307A	QC Batch: R122513				PrepDate:		Analyst: SS
Total TPH	19	16	50	J	ug/L	1	3/7/2018

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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CLIENT: CH2MHill
Work Order: N028951
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT**TestCode: 200.8_W_SFPP**

Sample ID: MB-67051	SampType: MBLK	TestCode: 200.8_W_SFP	Units: µg/L	Prep Date: 3/7/2018	RunNo: 122502						
Client ID: PBW	Batch ID: 67051	TestNo: EPA 200.8		Analysis Date: 3/7/2018	SeqNo: 2949474						
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									
Zinc	ND	1.0									

Sample ID: LCS-67051	SampType: LCS	TestCode: 200.8_W_SFP	Units: µg/L	Prep Date: 3/7/2018	RunNo: 122502						
Client ID: LCSW	Batch ID: 67051	TestNo: EPA 200.8		Analysis Date: 3/7/2018	SeqNo: 2949475						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	11.119	0.50	10.00	0	111	85	115				
Lead	10.401	0.50	10.00	0	104	85	115				
Zinc	99.207	1.0	100.0	0	99.2	85	115				

Sample ID: N028951-001C-DUP	SampType: DUP	TestCode: 200.8_W_SFP	Units: µg/L	Prep Date: 3/7/2018	RunNo: 122502						
Client ID: ZZZZZZ	Batch ID: 67051	TestNo: EPA 200.8		Analysis Date: 3/7/2018	SeqNo: 2949478						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	ND	0.50						0	0	20	
Lead	ND	0.50						0	0	20	
Zinc	ND	1.0						0	0	20	

Sample ID: N028951-001C-MS	SampType: MS	TestCode: 200.8_W_SFP	Units: µg/L	Prep Date: 3/7/2018	RunNo: 122502						
Client ID: ZZZZZZ	Batch ID: 67051	TestNo: EPA 200.8		Analysis Date: 3/7/2018	SeqNo: 2949480						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	7.772	0.50	10.00	0	77.7	75	125				
Lead	10.262	0.50	10.00	0	103	75	125				
Zinc	103.375	1.0	100.0	0	103	75	125				

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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CLIENT: CH2MHill
Work Order: N028951
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: N028951-001C-MSD		SampType: MSD		TestCode: 200.8_W_SFPP		Units: µg/L		Prep Date: 3/7/2018		RunNo: 122502	
Client ID: ZZZZZZ		Batch ID: 67051		TestNo: EPA 200.8		Analysis Date: 3/7/2018		SeqNo: 2949481			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.631	0.50	10.00	0	76.3	75	125	7.772	1.82	20	
Lead	10.259	0.50	10.00	0	103	75	125	10.26	0.0272	20	
Zinc	103.472	1.0	100.0	0	103	75	125	103.4	0.0942	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 |
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CLIENT: CH2MHill
Work Order: N028951
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: MB-67057	SampType: MBLK	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 3/7/2018	RunNo: 122501						
Client ID: PBW	Batch ID: 67057	TestNo: EPA 245.1		Analysis Date: 3/7/2018	SeqNo: 2949299						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.020	0.050									J

Sample ID: LCS-67057	SampType: LCS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 3/7/2018	RunNo: 122501						
Client ID: LCSW	Batch ID: 67057	TestNo: EPA 245.1		Analysis Date: 3/7/2018	SeqNo: 2949301						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.462	0.050	2.500	0	98.5	85	115				

Sample ID: N028951-001C-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 3/7/2018	RunNo: 122501						
Client ID: ZZZZZZ	Batch ID: 67057	TestNo: EPA 245.1		Analysis Date: 3/7/2018	SeqNo: 2949302						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.646	0.050	2.500	0	106	75	125				

Sample ID: N028951-001C-MSD	SampType: MSD	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 3/7/2018	RunNo: 122501						
Client ID: ZZZZZZ	Batch ID: 67057	TestNo: EPA 245.1		Analysis Date: 3/7/2018	SeqNo: 2949303						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.510	0.050	2.500	0	100	75	125	2.646	5.25	20	

Sample ID: N028951-001C-DUP	SampType: DUP	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 3/7/2018	RunNo: 122501						
Client ID: ZZZZZZ	Batch ID: 67057	TestNo: EPA 245.1		Analysis Date: 3/7/2018	SeqNo: 2949306						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.050						0	0	20	

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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CLIENT: CH2MHill
Work Order: N028951
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-67060	SampType: MBLK	TestCode: 8015_W_FP_ Units: ug/L				Prep Date: 3/7/2018				RunNo: 122513		
Client ID: PBW	Batch ID: 67060	TestNo: EPA 8015B		EPA 3510C		Analysis Date: 3/7/2018				SeqNo: 2949701		
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)	26.992	25										
Surr: Octacosane	68.772		80.00		86.0	26	152					
Surr: p-Terphenyl	67.271		80.00		84.1	57	132					

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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CLIENT: CH2MHill
Work Order: N028951
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: MB-R122513	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date:	RunNo: 122513						
Client ID: PBW	Batch ID: R122513	TestNo: EPA 8015B		Analysis Date: 3/7/2018	SeqNo: 2950677						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	26.992	50									J

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

AMERICA'S LEADING LABORATORY SOLUTIONS PROVIDERS

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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

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N028951
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: E180307LCS	SampType: LCS	TestCode: 8015GAS_WS Units: ug/L				Prep Date:			RunNo: 122504		
Client ID: LCSW	Batch ID: E18VW020	TestNo: EPA 8015B				Analysis Date: 3/7/2018			SeqNo: 2949520		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	869.000	50	1000	0	86.9	67	136				
Surr: Chlorobenzene - d5	51959.000		50000		104	74	138				

Sample ID: E180307MB1	SampType: MBLK	TestCode: 8015GAS_WS Units: ug/L				Prep Date:			RunNo: 122504		
Client ID: PBW	Batch ID: E18VW020	TestNo: EPA 8015B				Analysis Date: 3/7/2018			SeqNo: 2949521		
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	53667.000		50000		107	74	138				

Sample ID: N028951-001AMS	SampType: MS	TestCode: 8015GAS_WS Units: ug/L				Prep Date:			RunNo: 122504		
Client ID: ZZZZZZ	Batch ID: E18VW020	TestNo: EPA 8015B				Analysis Date: 3/7/2018			SeqNo: 2949523		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1106.000	50	1000	0	111	67	136				
Surr: Chlorobenzene - d5	60121.000		50000		120	74	138				

Sample ID: N028951-001AMSD	SampType: MSD	TestCode: 8015GAS_WS Units: ug/L				Prep Date:			RunNo: 122504		
Client ID: ZZZZZZ	Batch ID: E18VW020	TestNo: EPA 8015B				Analysis Date: 3/7/2018			SeqNo: 2949524		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1080.000	50	1000	0	108	67	136	1106	2.38	30	
Surr: Chlorobenzene - d5	61352.000		50000		123	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 |
| 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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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N028951
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P180307LCS		SampType: LCS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 122506			
Client ID: LCSW		Batch ID: P18VW034		TestNo: EPA 8260B		Analysis Date: 3/7/2018		SeqNo: 2949581			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	21.250	0.50	20.00	0	106	69	133				
1,2-Dichloroethane	21.170	0.50	20.00	0	106	69	132				
Benzene	20.760	1.0	20.00	0	104	81	122				
Ethylbenzene	21.660	1.0	20.00	0	108	73	127				
m,p-Xylene	43.780	1.0	40.00	0	109	76	128				
MTBE	19.520	1.0	20.00	0	97.6	65	123				
o-Xylene	21.060	1.0	20.00	0	105	80	121				
Tert-Butanol	83.270	5.0	100.0	0	83.3	70	130				
Toluene	20.680	2.0	20.00	0	103	77	122				
Xylenes, Total	64.840	2.0	60.00	0	108	75	125				
Surr: 1,2-Dichloroethane-d4	26.140		25.00		105	72	119				
Surr: 4-Bromofluorobenzene	26.630		25.00		107	76	119				
Surr: Dibromofluoromethane	25.790		25.00		103	85	115				
Surr: Toluene-d8	26.670		25.00		107	81	120				

Sample ID: N028951-001AMSD		SampType: MSD		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 122506			
Client ID: ZZZZZ		Batch ID: P18VW034		TestNo: EPA 8260B		Analysis Date: 3/7/2018		SeqNo: 2949583			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	21.700	0.50	20.00	0	108	69	133	22.85	5.16	20	
1,2-Dichloroethane	19.730	0.50	20.00	0	98.6	69	132	20.30	2.85	20	
Benzene	21.160	1.0	20.00	0	106	81	122	22.88	7.81	20	
Ethylbenzene	22.190	1.0	20.00	0	111	73	127	23.95	7.63	20	
m,p-Xylene	44.620	1.0	40.00	0	112	76	128	48.44	8.21	20	
MTBE	18.400	1.0	20.00	0	92.0	65	123	17.94	2.53	20	
o-Xylene	21.660	1.0	20.00	0	108	80	121	22.89	5.52	20	
Tert-Butanol	80.980	5.0	100.0	0	81.0	70	130	78.27	3.40	20	
Toluene	20.780	2.0	20.00	0	104	77	122	22.77	9.14	20	
Xylenes, Total	66.280	2.0	60.00	0	110	75	125	71.33	7.34	20	
Surr: 1,2-Dichloroethane-d4	25.720		25.00		103	72	119		0		

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N028951
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N028951-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 122506						
Client ID: ZZZZZZ	Batch ID: P18VW034	TestNo: EPA 8260B		Analysis Date: 3/7/2018	SeqNo: 2949583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	26.270		25.00		105	76	119		0		
Surr: Dibromofluoromethane	24.550		25.00		98.2	85	115		0		
Surr: Toluene-d8	25.270		25.00		101	81	120		0		

Sample ID: N028951-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 122506						
Client ID: ZZZZZZ	Batch ID: P18VW034	TestNo: EPA 8260B	Analysis Date: 3/7/2018	SeqNo: 2949584							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	22.850	0.50	20.00	0	114	69	133				
1,2-Dichloroethane	20.300	0.50	20.00	0	102	69	132				
Benzene	22.880	1.0	20.00	0	114	81	122				
Ethylbenzene	23.950	1.0	20.00	0	120	73	127				
m,p-Xylene	48.440	1.0	40.00	0	121	76	128				
MTBE	17.940	1.0	20.00	0	89.7	65	123				
o-Xylene	22.890	1.0	20.00	0	114	80	121				
Tert-Butanol	78.270	5.0	100.0	0	78.3	70	130				
Toluene	22.770	2.0	20.00	0	114	77	122				
Xylenes, Total	71.330	2.0	60.00	0	119	75	125				
Surr: 1,2-Dichloroethane-d4	24.270		25.00		97.1	72	119				
Surr: 4-Bromofluorobenzene	26.070		25.00		104	76	119				
Surr: Dibromofluoromethane	23.380		25.00		93.5	85	115				
Surr: Toluene-d8	25.620		25.00		102	81	120				

Sample ID: P180307MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 122506						
Client ID: PBW	Batch ID: P18VW034	TestNo: EPA 8260B		Analysis Date: 3/7/2018	SeqNo: 2949587						
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									
Benzene	ND	1.0									

Qualifiers:

- | | | | | | |
|---|--|----|-------------------------------------|---|--|
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CLIENT: CH2MHill
Work Order: N028951
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P180307MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 122506						
Client ID: PBW	Batch ID: P18VW034	TestNo: EPA 8260B	Analysis Date: 3/7/2018	SeqNo: 2949587							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
MTBE	ND	1.0									
o-Xylene	ND	1.0									
Tert-Butanol	ND	5.0									
Toluene	ND	2.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	25.800		25.00		103	72	119				
Surr: 4-Bromofluorobenzene	25.340		25.00		101	76	119				
Surr: Dibromofluoromethane	24.150		25.00		96.6	85	115				
Surr: Toluene-d8	25.400		25.00		102	81	120				

Qualifiers:

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CLIENT: CH2MHill
Work Order: N028951
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID: LCS-67100	SampType: LCS	TestCode: 8270WATER_ Units: µg/L				Prep Date: 3/9/2018			RunNo: 122606		
Client ID: LCSW	Batch ID: 67100	TestNo: EPA 8270C		EPA 3510C		Analysis Date: 3/12/2018			SeqNo: 2953531		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.190	1.0	6.000	0	36.5	24	120				
Surr: 1,2-Dichlorobenzene-d4	0.590		1.000		59.0	16	120				
Surr: 2-Fluorobiphenyl	0.630		1.000		63.0	25	120				
Surr: 4-Terphenyl-d14	0.570		1.000		57.0	46	132				
Surr: Phenol-d5	0.300		1.000		30.0	15	120				

Sample ID: LCSD-67100	SampType: LCSD	TestCode: 8270WATER_ Units: µg/L				Prep Date: 3/9/2018			RunNo: 122606		
Client ID: LCSS02	Batch ID: 67100	TestNo: EPA 8270C		EPA 3510C		Analysis Date: 3/12/2018			SeqNo: 2953532		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.260	1.0	6.000	0	37.7	24	120	2.190	3.15	20	
Surr: 1,2-Dichlorobenzene-d4	0.610		1.000		61.0	16	120		0		
Surr: 2-Fluorobiphenyl	0.670		1.000		67.0	25	120		0		
Surr: 4-Terphenyl-d14	0.800		1.000		80.0	46	132		0		
Surr: Phenol-d5	0.330		1.000		33.0	15	120		0		

Sample ID: MB-67100	SampType: MBLK	TestCode: 8270WATER_ Units: µg/L				Prep Date: 3/9/2018			RunNo: 122606		
Client ID: PBW	Batch ID: 67100	TestNo: EPA 8270C		EPA 3510C		Analysis Date: 3/12/2018			SeqNo: 2953533		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	1.0									
Surr: 1,2-Dichlorobenzene-d4	0.500		1.000		50.0	16	120				
Surr: 2-Fluorobiphenyl	0.570		1.000		57.0	25	120				
Surr: 4-Terphenyl-d14	0.720		1.000		72.0	46	132				
Surr: Phenol-d5	0.250		1.000		25.0	15	120				

Qualifiers:

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

No 28951

DATE: 3/6/18
PAGE: 1 of 1

Sampler Information:

[illegible]

650 # 1094

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: 3/6/2018 Workorder: N028951
 Rep sample Temp (Deg C): 3.9 IR Gun ID: 2
 Temp Blank: ☒ Yes ☐ No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 1094 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? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: YR  3/7/2018

Reviewed By:  03/07/2018

ASSET Laboratories

WORK ORDER Summary

06-Mar-18

WorkOrder: N028951

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 3/6/2018

Comments: Report metals, TPH and VOC preliminary data on 24-hr TAT. Report Total Xylenes.

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N028951-001A	EFF-03-06	3/6/2018 10:10:00 AM	3/7/2018	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			3/7/2018		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N028951-001B			3/7/2018		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/7/2018		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/7/2018		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N028951-001C			3/7/2018			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/7/2018		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/7/2018		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/7/2018			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N028951-001D			3/13/2018		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/13/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N028951-002A	FOLDER	3/7/2018	3/7/2018	Folder	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			3/7/2018	Folder	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555
www.gso.com

Ship From

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

Tracking #: 539711094

CPS

**Ship To**

ASSET LABORATORIES
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

LVS
LAS VEGAS

A

COD: \$0.00

Weight: 0 lb(s)

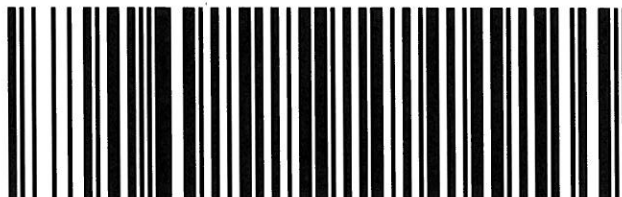
Reference:

C89102A

Delivery Instructions:

HOLD FOR PICKUP

Signature Type: NOT REQUIRED



80485338

Print Date: 3/6/2018 5:55 PM

Package 1 of 2

LABEL INSTRUCTIONS:

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

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the GSO service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gso.com.

Attachment B
Data Quality Assurance/
Quality Control

Data Quality Assurance/Quality Control

Data quality was evaluated by examining the holding times, laboratory method blanks, surrogate percent recoveries, laboratory control sample/laboratory control sample duplicate (LCS/LCSD) and matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent differences (RPDs). Data quality review results for each analysis are outlined in the following subsections.

Analytical Data

The data quality evaluation report covers three normal effluent samples. Samples were collected between January 9 and March 6, 2018. Analyses were performed by Asset Laboratories in Cerritos, California and BC Laboratories in Bakersfield, California. The sample results were reported as three sample delivery groups (SDGs):

Sample Delivery Groups
N027903
N028452
N028951

Eleven methods were used to analyze the environmental samples. Samples were collected and submitted directly to the Asset Laboratories for analysis. Asset Laboratories was responsible for shipment of samples to BC Laboratories. Samples were analyzed for the following analytes/methods:

Parameter	Method
Turbidity	SM2130B
Total suspended solids	SM2540D
Settleable solids	SW2540F
Biochemical oxygen demand	SM5210B
Oil and grease	E1664
Metals	E200.8/E245.1
Ammonia	SM4500NH3G
Total petroleum hydrocarbons (TPH) – gasoline, diesel, and motor oil ranges	SW8015B
Volatile organic compounds (VOCs)	SW8260B
Phenol	SW8270C

Data validation flags were assigned using guidance from the *EPA Contract Laboratory National Functional Guidelines for Organic Superfund Methods Data Review* (EPA, 2017) and *EPA Contract Laboratory National Functional Guidelines for Inorganic Superfund Methods Data Review* (EPA, 2017). Multiple flags are routinely applied to specific sample method/ matrix/ analyte combinations, but there will be only one final flag. A final flag is applied to the data and is the most conservative of the applied data validation flags. The final flag also includes blank sample impacts.

The data validation flags are as follows:

- J = Analyte was present, but the reported value may not be accurate or precise (estimated). The result was estimated because it was less than the referenced reporting limit, but greater than the method detection limit, or because a quality control (QC) exceedance occurred.
- R = Data were unusable because of deficiencies in the ability to analyze the sample and meet QC criteria.
- U = Analyte was not detected at the specified detection limit.
- UJ = Analyte was not detected, and the specified detection limit may not be accurate or precise (estimated).

Findings

The overall summaries of the data validation findings are contained in the following subsections.

Holding Times

All holding time criteria were met.

Method Blanks

Method blanks were analyzed at the required frequency and were free of contamination that would affect the sample results with the following exceptions:

- TPH-motor oil and total TPH were detected less than the reporting limit in a method blank for Method SW8015B. Two associated results were detected less than five times the blank concentrations and were qualified as not detected and flagged “U” in sample EFF-03-06.

Surrogates

All surrogate recovery criteria were met.

Internal Standards

All internal standard criteria were met.

Laboratory Control Samples

LCS/LCSDs were analyzed as required. All accuracy and precision criteria were met.

Matrix Spikes/Matrix Spike Duplicates

The results of MS/MSD analyses provide information about the possible influence of the matrix on either accuracy or precision of the measurements. There were no MS/MSD recovery or RPD exceedances that would affect the sample results.

Chain-of-Custody

Each sample was documented in a completed chain-of-custody and received at the laboratory in good condition.

Overall Assessment

An overall evaluation of the data indicates that the sample handling, shipment, and analytical procedures have been adequately completed, and that the analytical results are considered usable taking into consideration possible biases as described above.

Attachment C
Waste Manifests

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAT080033962	2. Page 1 of 1	3. Emergency Response Phone 800-624-9136	4. Manifest Tracking Number 009479211 FLE		
5. Generator's Name and Mailing Address SFPP, LP (NORWALK STATION) 1100 TOWN AND COUNTRY RD. ATTN: Karina H. ORANGE CA 92868 Generator's Phone: 714-560-4887			Generator's Site Address (if different than mailing address) 15306 NORWALK BLVD. NORWALK, CA 90651				
6. Transporter 1 Company Name PATRIOT ENVIRONMENTAL SERVICES				U.S. EPA ID Number CAD053866794			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address DEMENNO KERDOON 2000 N. ALAMEDA ST. COMPTON CA 90222 Facility's Phone: 310-537-7100				U.S. EPA ID Number CAT080013352			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. UN1993, WASTE FLAMMABLE LIQUID, N.O.S., 3, PG II (GASOLINE)	001	TT	2300	G	D001 134 D018
		2. THIS WASTE STREAM HAS BEEN QUALIFIED FOR RECYCLING/TREATMENT AT THE DeMENNO/KERDOON DBA WORLD OIL					
		3. RECYCLING FACILITY IN COMPTON, CALIFORNIA. THIS FACILITY HAS THE NECESSARY PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED.					
		4. OUR EPA NUMBER IS CAT080013352					
14. Special Handling Instructions and Additional Information WEAR APPROPRIATE PPE WHEN HANDLING 9b1.) PROFILE NUMBER: (REMEDIATION SYSTEM RINSATE) PATRIOT JOB #: 01-18-00164 BILL TO SFPP, LP ATTN: STEVE DEFIKAUGH							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name X James DYE			Signature X [Signature]		Month Day Year 1 30 18		
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name ARTURO ESPINOZA			Signature [Signature]		Month Day Year 1 30 18	
Transporter 2 Printed/Typed Name			Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Reconciled quantity 1796 with 2011 of Patriot 2-5-18						
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator)				Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H039		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Joan [Signature]			Signature [Signature]		Month Day Year 01 30 18		

Certificate of Treatment/Recycling

ISSUED TO

SFPP - NORWALK STATION

FOR

MANIFEST NUMBER 009479211FLE

DATE RECEIVED 1/30/2018

The aqueous waste received on the above manifest will be treated to standards mandated by the FEDERAL CLEAN WATER ACT and to effluent requirements established by the Sanitation Districts of Los Angeles County. Waste treatment and recycling is performed under permits granted to DeMENNO/KERDOON, a California Corporation, by the California Department of Toxic Control (DTSC), in coordination with the Environmental Protection Agency, in accordance with the provisions of the Resource Conservation and Recovery Act (RCRA) of 1976, together with applicable federal and state regulations including but not limited to waste discharge requirements established by the Sanitation Districts of Los Angeles County.

When the above described waste material is accepted by DeMENNO/KERDOON and treated/recycled and the aqueous phase discharged for further treatment by the Sanitation Districts, the certificate holder's responsibility for the waste material is eliminated under both RCRA and Proposition 65. Upon request, DeMENNO/KERDOON will issue this certificate that all waste material has been handled in accordance with applicable permits and the certificate holder's liability has been terminated.

DeMENNO/KERDOON

"Compliance Through Recycling"

By: 

Cyrus Pourhassanian
Laboratory Manager

Date: 2/27/2018

2000 North Alameda Street ☐ Compton ☐ California ☐ 90222
Telephone (310) 537-7100 ☐ Facsimile (310) 639-2946

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAT080033962	2. Page 1 of 1	3. Emergency Response Phone (800) 483-3718	4. Manifest Tracking Number 011760608 FLE	
5. Generator's Name and Mailing Address Srpp, L.P. Norwalk Station 1100 Town And Country Road Orange, CA 92868			Generator's Site Address (if different than mailing address) 15306 Norwalk Boulevard Norwalk, CA 90651			
6. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.			U.S. EPA ID Number MAD039322250			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744			U.S. EPA ID Number CAD044429835			
Facility's Phone: (310) 835-9998						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	1. NON-RCRA HAZARDOUS WASTE, SOLID, (FILTERS)	1 DM 280 P			181	
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. CH1424321 IXSSDM						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name X JAMES DYE		Signature 		Month Day Year 13 11 18		
16. International Shipments <input type="checkbox"/> Import to U.S.		<input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:		
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name JOSE SANCHEZ		Signature 		Month Day Year 13 11 18		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number:						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H141		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name		Signature		Month Day Year		

Site Address : 15306 Norwalk Boulevard
Norwalk, CA 90651

SC PPW 10/10/2017
WORK ORDER NO. DW1801310478

DOCUMENT NO. 0085685

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 5548
EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000
TRANSPORTER 2 VEHICLE ID #
EPA ID # TRANS. 2 PHONE

DESIGNATED FACILITY Clean Harbors Wilmington LLC			SHIPPER Sfpp, L.P. Norwalk Station ATTN: Karina Hankins		
FACILITY EPA ID # CAD044429835			SHIPPER EPA ID # CAT080033962		
ADDRESS 1737 East Denni Street			ADDRESS 1100 Town And Country Road		
CITY Wilmington		STATE CA	ZIP 90744	CITY Orange	
STATE CA		ZIP 92868			
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
1X55	DM		A. NON D.O.T. REGULATED, (FILTERS)	260	P
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		
SPECIAL HANDLING INSTRUCTIONS A.CH1424321-NH					
EMERGENCY PHONE #: (800) 483-3718					
GENERATOR: Sfpp, L.P. Norwalk Station					

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT JAMES DWR	SIGN 	DATE 3/19/18
TRANSPORTER 1	PRINT JOSE SANCHEZ	SIGN 	DATE 3/19/18
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT	SIGN	DATE

1

Drum Order Packing List

Date: 03/15/2018

Job Owner: John F Winwood

1801310478

Created By: Kenneth J Linton

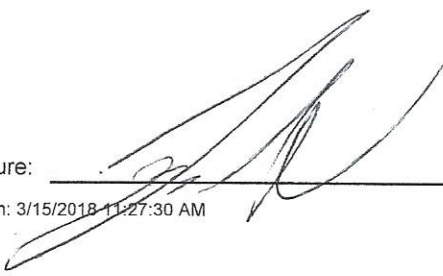
Attention Drivers: Call 1-877-333-4244 with Additions or Questions Regarding this Order

Generator Code: SF1212

Customer Code: KI0596

Manifest Mailing Address:	Site Address:	Customer Address:
Sfpp, L.P. Norwalk Station 1100 Town And Country Road Orange, CA 92868 EPA ID #: CAT080033962	Sfpp, L.P. Norwalk Station 15306 Norwalk Boulevard Norwalk, CA 90651 State EPA ID #:	Kinder Morgan 1100 Town and Country Road Orange, CA 92868 Purchase Order No: NO PO NEEDED

Actual Qty	Qty	UOM	Unit Price	Extended Price	Item #	Item Description
	4	EA	59.00	236.00	DM55STL	55 G / 205 L Steel Drum, Reconditioned 1A2/Y1.2/100 (17-H)

Signature: 

Date: 3/19/18