



SFPP, L.P.
Operating Partnership

November 14, 2017

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

Re: Effluent Monitoring Report
July through September 2017
SFPP, L.P. Norwalk Pump Station
15306 Norwalk Boulevard, Norwalk, California
(NPDES No. CA0063509, CI No. 7497)

Attention: Information Technology Unit

In reference to the subject National Pollutant Discharge Elimination System (NPDES) permit, please find enclosed the Third Quarter 2017 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 November 2017.
at 4:34 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
6 Hutton Centre Drive
Suite 700
Santa Ana, CA 92707
O +1 714 429 2000
F +1 714 429 2050
www.ch2m.com

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

November 14, 2017

Subject: Effluent Monitoring Report, July 1 to September 30, 2017 (Third Quarter 2017)
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 July 1 to September 30, 2017. 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 is operating remediation systems consisting of soil vapor extraction (SVE), total fluids extraction (TFE; extraction of free product and/or groundwater using a top-loading pump), GWE (extraction of groundwater using a bottom-loading pump), and treatment of extracted soil vapors and groundwater to address the south-central and southeastern areas of the site. Biosparging is also employed in the south-central area to enhance natural attenuation of hydrocarbon constituents.

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

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

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

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

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

SVE System

SVE is performed using a blower to remove soil vapors from the south-central and southeastern areas. The extracted vapors are conveyed to a knock-out tank that separates entrained moisture from the soil vapors. Accumulated moisture in the knock-out tank is treated by the main groundwater treatment system (GWTS) described below. The soil vapors are then treated in a regenerative thermal oxidizer (RTO) where VOCs are converted to carbon dioxide and water prior to being discharged to the atmosphere. Operation of the GWTS and SVE system is conducted in accordance with Permits to 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 (SCAQMD).

Groundwater Treatment System

The main GWTS handles free product and groundwater recovered from the south-central and southeastern parts of the site. Free product and groundwater recovered by pneumatically operated top-loading total fluid pumps and bottom-loading groundwater pumps are piped to an oil-water separator (OWS). Free product, if any, from the OWS is collected in a storage tank and recycled at an offsite location. Water from the OWS is treated using liquid-phase granular activated carbon (LGAC). Treated water is routed through an onsite 3,000-gallon equalization tank. Two fluidized bed bioreactors (FBBRs) installed downstream of the equalization tank treat fuel oxygenates such as tertiary butyl alcohol (TBA) and methyl tertiary butyl ether (MTBE). The treated groundwater then passes through polishing LGAC units prior to discharge to a storm drain that leads to Coyote Creek. Discharge to Coyote Creek is performed in accordance with 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. 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, 2015).

The compressor used to deliver ambient air to the biosparge well has a maximum design rate of approximately 500 standard cubic feet per minute (scfm). SFPP's SVE system has an interlock that ensures the biosparge system cannot operate unless the SVE system is operating. Operation of the SVE system reduces the potential for off-gassing of VOCs during biosparge operations. Pilot testing of the biosparge system commenced in early January 2016 and continued through October 2016. Soil vapor data collected as part of the pilot testing have been submitted to the Regional Water Quality Control Board (Water Board) and Restoration Advisory Board (RAB) in five separate reports (CH2M, 2016a through 2016e) and in the *Evaluation Report for the South-Central Area Horizontal Biosparge Pilot Test* (CH2M, 2017). The biosparge system was restarted on June 27, 2017, after the new RTO was put into operation.

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

Summary of Quarterly Groundwater Treatment System Operations

A total of 1,021,222 gallons of groundwater were extracted from the south-central and southeastern areas and discharged to Coyote Creek during the third quarter 2017. 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, 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.

No free product accumulated in the product holding tank of the GWTS during the third quarter 2017. In addition, hand bailing of free product (from wells not equipped for TFE) was not performed during this reporting period.

Routine Effluent Monitoring

During the third quarter 2017, 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, quarterly, and semiannual analysis.

The compliance samples were shipped to Asset Laboratories in Las Vegas, Nevada, for analysis. Asset Laboratories is certified by the National Environmental Laboratory Accreditation Program and the California Department of Public Health Environmental Laboratory Accreditation Program. The samples were analyzed in accordance with current U.S. Environmental Protection Agency (EPA) guidelines or as specified in the WDRs for the site.

Summary of Compliance Results

Monthly and Quarterly Sampling

Analytical results for the July, August, and September 2017 sampling events at the effluent are summarized in Table 2. The results were compared with monthly and quarterly 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.

Under NPDES Order No. R4-2016-0309, 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. The maximum daily flow in Coyote Creek at the gauge station below Spring Street (F354-R) is reported in Table 3. Based on these data, the July, August, and September 2017 sampling events, with maximum daily flows of 12 cfs, 12 cfs, and 5 cfs, respectively, occurred during dry weather conditions. Therefore, the analytical results for July, August, and September 2017 are compared to dry weather discharge limits.

Waste Hauling

On July 13, 2017, approximately 2,000 pounds of nonhazardous spent carbon was removed from the site by Carbon Activated Corp., Inc., of 250 East Manville Street, Compton, California 90220. The waste was transported to Carbon Activated Corp., Inc., of 250 East Manville Street, Compton, California 90220.

On July 20, 2017, approximately 450 pounds of non-Resource Conservation and Recovery Act (RCRA) hazardous solid waste (spent bag filters) was removed from the site by Clean Harbors Environmental Services, Inc. of 2500 West Lokern Road, Buttonwillow, California 93206. The waste was transported to Clean Harbors Buttonwillow, LLC at 2500 West Lokern Road, Buttonwillow, California 93206.

On October 9, 2017, approximately 500 pounds of nonhazardous non-Department of Transportation (DOT) regulated waste soil (treatment system sludge), 200 pounds non-DOT regulated solid waste (bioreactor filters), and 300 pounds of non-RCRA hazardous waste (OWS 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 B.

Should you require any further information, please contact me at (714) 435-6017.

Regards,
CH2M HILL Engineers, Inc.

A handwritten signature in black ink, appearing to read "Vladimir Carino". The signature is fluid and cursive, with the first name and last name clearly distinguishable.

Vladimir Carino
Project Engineer

Attachments:

References

Table 1 – Effluent Flow Rate Measurements, Third Quarter 2017

Table 2 – NPDES Effluent Monitoring, Third Quarter 2017

Table 3 – Maximum Daily Flow in Coyote Creek, Third Quarter 2017

Figure 1 – Site Location Map

Figure 2 – Remediation System Layout

Attachment A – Laboratory Analytical Reports and Field Measurement Data

Attachment B – Waste Manifests

References

CH2M HILL (CH2M). 2015. *Horizontal Biosparge Well and Soil Vapor Monitoring Probe Completion Report, SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California*. February 8.

CH2M HILL (CH2M). 2016a. *Horizontal Pilot Testing Project – Results of January and February 2016 Soil Vapor Monitoring at the South-Central Area of the SFPP Norwalk Pump Station, Norwalk, California*. April 19.

CH2M HILL (CH2M). 2016b. *Horizontal Pilot Testing Project – Results of April 2016 Soil Vapor Monitoring at the South-Central Area of the SFPP Norwalk Pump Station, Norwalk, California*. June 17.

CH2M HILL (CH2M). 2016c. *Horizontal Pilot Testing Project – Results of May 2016 Soil Vapor Monitoring at the South-Central Area of the SFPP Norwalk Pump Station, Norwalk, California*. September 6.

CH2M HILL (CH2M). 2016d. *Horizontal Pilot Testing Project – Results of June 2016 Soil Vapor Monitoring at the South-Central Area of the SFPP Norwalk Pump Station, Norwalk, California*. September 7.

CH2M HILL (CH2M). 2016e. *Results of August 2016 Soil Vapor Monitoring at the SFPP Norwalk Pump Station, Norwalk, California*. November 15.

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

Tables

Table 1. Effluent Flow Rate Measurements, Third Quarter 2017*SFPF Norwalk Pump Station, Norwalk, California*

Date	Average Flow Rate (gpd) (Maximum Daily Discharge Limit = 150,000 gpd ^a)
07/01/17	15,512
07/02/17	14,862
07/03/17	14,686
07/04/17	14,792
07/05/17	15,093
07/06/17	15,329
07/07/17	15,195
07/08/17	14,947
07/09/17	5,053
07/10/17	9,058
07/11/17	8,921
07/12/17	8,980
07/13/17	8,816
07/14/17	8,612
07/15/17	8,565
07/16/17	8,546
07/17/17	8,297
07/18/17	8,440
07/19/17	8,307
07/20/17	8,743
07/21/17	8,529
07/22/17	8,310
07/23/17	8,339
07/24/17	8,169
07/25/17	4,287
07/26/17	2,995
07/27/17	8,010
07/28/17	7,843
07/29/17	7,504
07/30/17	7,772
07/31/17	7,156
08/01/17	14,521
08/02/17	6,632
08/03/17	7,315
08/04/17	8,474
08/05/17	13,318
08/06/17	13,040
08/07/17	12,819
08/08/17	11,306
08/09/17	9,612
08/10/17	10,403
08/11/17	11,839
08/12/17	11,938
08/13/17	11,905
08/14/17	13,684
08/15/17	13,908
08/16/17	16,595
08/17/17	15,803
08/18/17	15,935
08/19/17	14,964
08/20/17	15,713
08/21/17	15,373
08/22/17	15,461
08/23/17	15,946
08/24/17	15,862
08/25/17	15,526
08/26/17	14,335

Table 1. Effluent Flow Rate Measurements, Third Quarter 2017*SFPP Norwalk Pump Station, Norwalk, California*

Date	Average Flow Rate (gpd) (Maximum Daily Discharge Limit = 150,000 gpd ^a)
08/27/17	17,788
08/28/17	12,548
08/29/17	16,880
08/30/17	13,106
08/31/17	12,953
09/01/17	12,851
09/02/17	8,007
09/03/17	9,995
09/04/17	8,465
09/05/17	8,771
09/06/17	7,650
09/07/17	9,434
09/08/17	15,095
09/09/17	13,871
09/10/17	14,228
09/11/17	13,004
09/12/17	10,951
09/13/17	13,005
09/14/17	13,836
09/15/17	10,707
09/16/17	12,858
09/17/17	7,822
09/18/17	11,636
09/19/17	14,052
09/20/17	12,044
09/21/17	15,018
09/22/17	8,141
09/23/17	15,390
09/24/17	18,030
09/25/17	17,806
09/26/17	3,383
09/27/17	0
09/28/17	0
09/29/17	0
09/30/17	0

Notes:

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

gpd = gallons per day

Table 2. NPDES Effluent Monitoring, Third Quarter 2017
SFPD Norwalk Pump Station, Norwalk, California

Analyte	Sampling Frequency	Analytical Method	Units	MDL ^c	RL ^c	ML ^a	7/20/2017	8/10/2017	9/12/2017	Discharge Limits ^b	
										Monthly Average	Daily Maximum
Flow	Daily	--	gpd	--	--	--	8,743	10,403	10,951	--	150,000
TPH as gas (C4-C12)	Monthly	EPA 8015B	µg/L	16	50	NE	<16	18 J	<16	--	--
TPH as Diesel (C13-C22)	Monthly	EPA 8015B	µg/L	16	27	NE	<16	<16	<16	--	--
TPH as Oil (C23+)	Monthly	EPA 8015B	µg/L	14	27	NE	15 J	19 J	18 J	--	--
Total TPH	Monthly	EPA 8015B	µg/L	16	100	NE	<16	37 J	18 J	--	100
Total TPH	Monthly	Calculated	lb/day	--	--	--	0.000583	0.00321	0.001644	--	0.13
Benzene	Monthly	EPA 8260B	µg/L	0.14	1	2.0	<0.14	<0.14	<0.036	--	--
1,1-Dichloroethane	Monthly	EPA 8260B	µg/L	0.13	0.5	1.0	<0.13	<0.13	<0.022	--	--
1,2-Dichloroethane	Monthly	EPA 8260B	µg/L	0.13	0.5	2.0	<0.13	<0.13	<0.064	--	--
Ethylbenzene	Monthly	EPA 8260B	µg/L	0.14	1.0	2.0	<0.14	<0.14	<0.036	--	--
Phenol	Monthly	EPA 8270C	µg/L	0.36	1.1	1	<0.36	<0.33	0.37 J	--	--
Toluene	Monthly	EPA 8260B	µg/L	0.14	2.0	2.0	<0.14	<0.14	<0.042	--	--
Methyl tertiary-butyl ether	Monthly	EPA 8260B	µg/L	0.13	1.0	NE	<0.13	<0.13	<0.062	--	--
Tertiary butyl alcohol	Monthly	EPA 8260B	µg/L	1.8	5.0	NE	<1.8	<1.8	<0.3	--	--
Total Xylenes	Monthly	EPA 8260B	µg/L	1.5	2.0	NE	<1.5	<1.5	<1.5	--	--
Copper (total recoverable) (dry weather) ^d	Monthly	EPA 200.8	µg/L	0.26	0.5	0.5	<0.26	<0.26	<0.26	9.7	32
Copper (total recoverable) (dry weather) ^d	Monthly	Calculated	lb/day	--	--	--	0.000009	0.000011	0.000012	0.012	0.04
Copper (total recoverable) (wet weather) ^d	Monthly	EPA 200.8	µg/L	0.26	0.5	0.5	<0.26	<0.26	<0.26	8.3	27
Copper (total recoverable) (wet weather) ^d	Monthly	Calculated	lb/day	--	--	--	0.000009	0.000011	0.000012	0.010	0.034
Lead (total recoverable) (dry weather) ^d	Monthly	EPA 200.8	µg/L	0.037	0.5	0.5	<0.037	<0.037	<0.037	33	106
Lead (total recoverable) (dry weather) ^d	Monthly	Calculated	lb/day	--	--	--	0.000001	0.000002	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	lb/day	--	--	--	0.000001	0.000001	0.000001	6.4E-05	1.3E-04
Zinc (total recoverable) (dry weather) ^d	Monthly	EPA 200.8	µg/L	0.27	1.0	1.0	6.1	5.8	0.4 J	64	220
Zinc (total recoverable) (dry weather) ^d	Monthly	Calculated	lb/day	--	--	--	0.000445	0.000503	0.000037	0.080	0.28
Zinc (total recoverable) (wet weather) ^d	Monthly	EPA 200.8	µg/L	0.27	1.0	1.0	6.1	5.8	0.4 J	46	158
Zinc (total recoverable) (wet weather) ^d	Monthly	Calculated	lb/day	--	--	--	0.000445	0.000503	0.000037	0.058	0.2
BOD	Quarterly	SM 5210B	mg/L	1.5	1.5	NE	<1.5	--	--	20	30
BOD	Quarterly	Calculated	lb/day	--	--	--	0.054687	--	--	25	38
Total Suspended Solids	Quarterly	SM 2540D	mg/L	10	10.00	NE	<10	--	--	50	75
Total Suspended Solids	Quarterly	Calculated	lb/day	--	--	--	0.364583	--	--	63	94
pH	Quarterly	--	s.u.	--	--	NE	7.2	--	--	--	6.5/8.5
Oil and Grease	Quarterly	EPA 1664A	mg/L	0.73	4.50	NE	2.4 J	--	--	10	15
Oil and Grease	Quarterly	Calculated	lb/day	--	--	--	0.175	--	--	13	19
Ammonia Nitrogen (as N)	Quarterly	EPA 350.1	mg/L	0.025	0.13	NE	<0.025	--	--	--	--
Settleable Solids	Quarterly	SM 2540F	mL/L/hr	0.095	0.10	NE	<0.095	--	--	0.1	0.3
Temperature	Quarterly	Temperature	°F	--	--	NE	85	--	--	--	86
Turbidity	Quarterly	SM 2130B	NTU	0.1	0.10	NE	0.26	--	--	50	75
Salinity	2x/year	SM 2520B	--	--	--	NE	--	--	--	--	--
Chronic Toxicity (see Table 4)	2x/year	--	--	--	--	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 (not included)	Annually	--	--	--	--	--	--	--	--	--	--

Table 2. NPDES Effluent Monitoring, Third Quarter 2017
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.

^d Dry weather condition is defined as a maximum daily flow below 156 cfs as measured at the Los Angeles County Department of Public Works flow gauge station F354-R. The maximum daily flows in Coyote Creek, as measured at Coyote Creek Gauge Station below Spring Street (F354-R), during the July, August, and September 2017 sampling events were 12 cfs, 12 cfs, and 5 cfs, respectively. Therefore, the July, August, and September 2017 results will be compared to the dry weather discharge limits.

-- = not measured or not analyzed

< = not detected above the MDL

° F = degrees Fahrenheit

µg/L = micrograms per liter

BOD = biological oxygen demand

cfs = cubic feet per second

gpd = gallons per day

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

lb/day = pounds per day

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

NPDES = National Pollutant Discharge Elimination System

NTU = nephelometric turbidity unit(s)

pg/L = picograms per liter

RL = reporting limit

s.u. = standard units

TPH = total petroleum hydrocarbons

Table 3. Maximum Daily Flow in Coyote Creek, Third Quarter 2017*SFPP Norwalk Pump Station, Norwalk, California*

Date	Maximum Daily Flow Rate (cfs)^a	Comments
07/01/17	7.12	
07/02/17	6.55	
07/03/17	11.20	
07/04/17	12.00	
07/05/17	8.35	
07/06/17	5.15	
07/07/17	4.81	
07/08/17	4.81	
07/09/17	5.50	
07/10/17	5.15	
07/11/17	16.50	
07/12/17	14.10	
07/13/17	15.30	
07/14/17	11.20	
07/15/17	10.40	
07/16/17	12.00	
07/17/17	14.10	
07/18/17	11.20	
07/19/17	15.30	
07/20/17	12.00	July 2017 sampling conducted
07/21/17	8.35	
07/22/17	6.55	
07/23/17	6.55	
07/24/17	6.55	
07/25/17	7.12	
07/26/17	6.55	
07/27/17	7.72	
07/28/17	9.02	
07/29/17	6.55	
07/30/17	6.55	
07/31/17	12.00	
08/01/17	11.20	
08/02/17	6.55	
08/03/17	7.12	
08/04/17	17.80	
08/05/17	6.55	
08/06/17	6.01	
08/07/17	11.20	
08/08/17	12.00	
08/09/17	9.02	
08/10/17	12.00	August 2017 sampling conducted
08/11/17	7.72	
08/12/17	7.72	
08/13/17	6.55	
08/14/17	6.55	
08/15/17	10.40	
08/16/17	9.71	
08/17/17	7.72	
08/18/17	6.55	
08/19/17	6.55	
08/20/17	11.20	
08/21/17	10.40	
08/22/17	6.01	
08/23/17	6.55	
08/24/17	6.01	

Table 3. Maximum Daily Flow in Coyote Creek, Third Quarter 2017*SFPP Norwalk Pump Station, Norwalk, California*

Date	Maximum Daily Flow Rate (cfs)^a	Comments
08/25/17	7.12	
08/26/17	6.55	
08/27/17	6.01	
08/28/17	6.01	
08/29/17	6.01	
08/30/17	6.55	
08/31/17	23.60	
09/01/17	7.12	
09/02/17	6.01	
09/03/17	14.40	
09/04/17	22.00	
09/05/17	15.30	
09/06/17	9.02	
09/07/17	13.00	
09/08/17	7.72	
09/09/17	11.20	
09/10/17	8.35	
09/11/17	4.81	
09/12/17	5.15	September 2017 sampling conducted
09/13/17	6.01	
09/14/17	6.01	
09/15/17	5.50	
09/16/17	4.81	
09/17/17	4.16	
09/18/17	16.50	
09/19/17	5.15	
09/20/17	6.55	
09/21/17	7.72	
09/22/17	5.15	
09/23/17	6.55	
09/24/17	9.02	
09/25/17	9.02	
09/26/17	5.50	
09/27/17	12.00	
09/28/17	7.12	
09/29/17	6.55	
09/30/17	25.20	

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

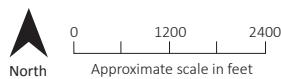
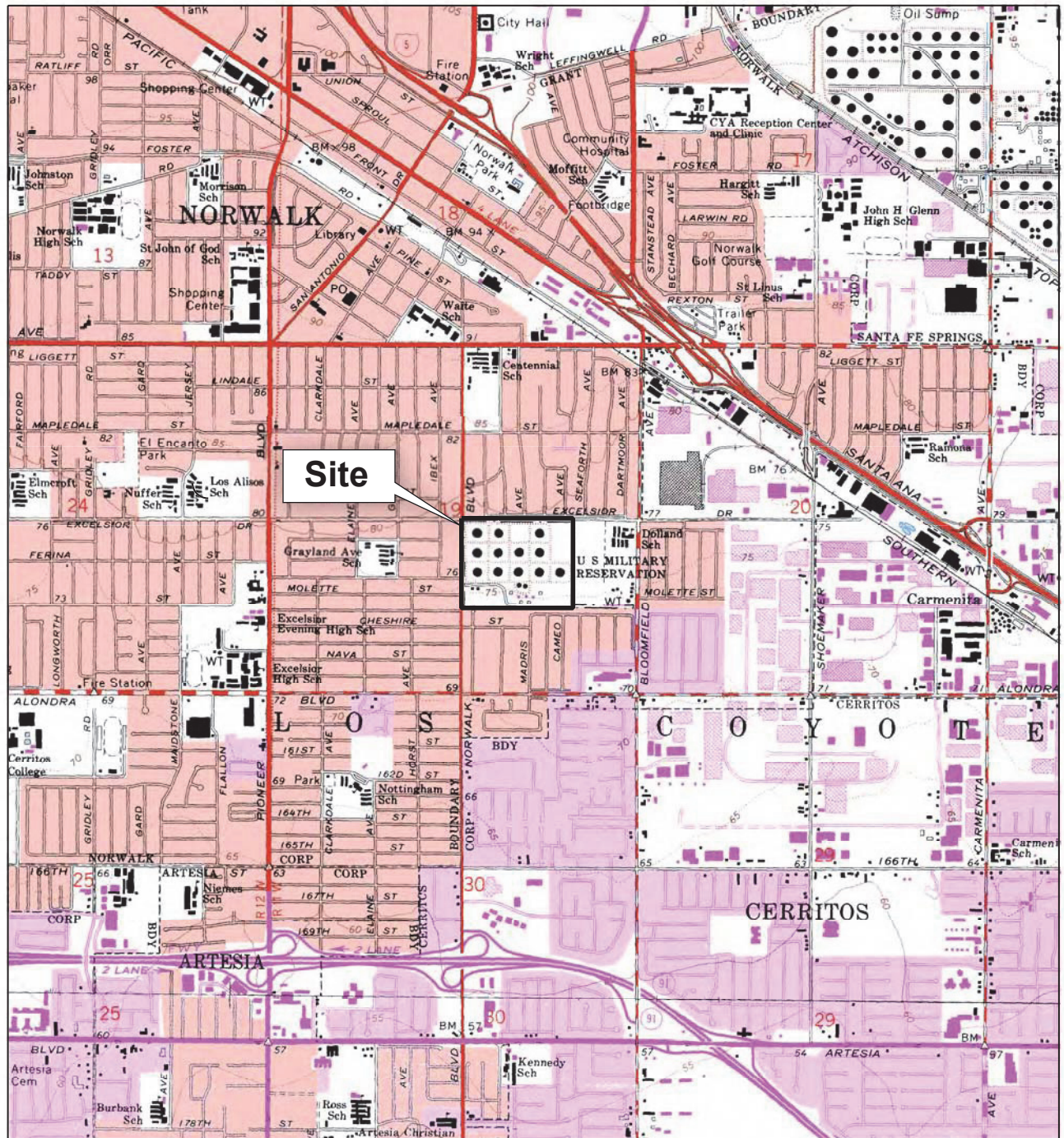
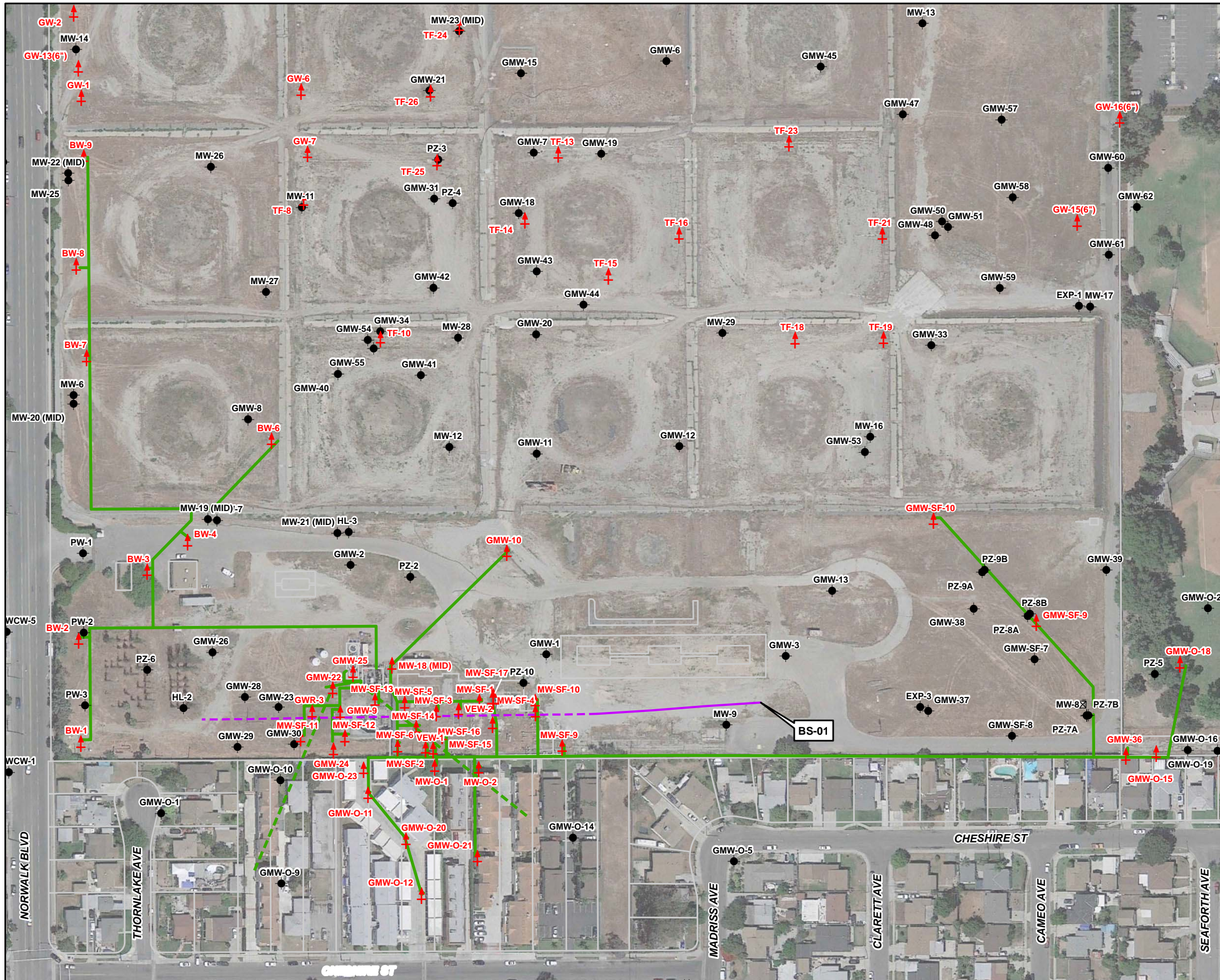


Figure 1
Site Location Map
SFP Norwalk Pump Station
Norwalk, California

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



Legend

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

Imagery Source:
Google Earth April 17, 2013.

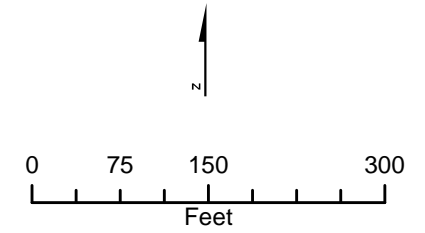


Figure 2
Remediation System Layout
SFPP Norwalk Pump Station
Norwalk, California



Attachment A
Laboratory Analytical Reports and
Field Measurement Data

July 28, 2017

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

TEL:

FAX:

Workorder No.: N025120

RE: SFPP-Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on July 21, 2017 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,



Puri Romualdo
Laboratory Director

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CLIENT: CH2MHill
Project: SFPP-Norwalk
Lab Order: N025120

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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

Subcontracted Analyses:

Ammonia and BOD were subcontracted to BC Labs, Bakersfield, CA.

Analytical Comments for EPA 1664 Rev B:

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) were not performed due to limited sample. LCS/LCSD was used instead to measure precision.

Analytical Comments for EPA 200.8:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Lead possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 8260B:

Surrogate recovery biased high possibly due to matrix interference. Sample results were non-detect (ND) for analytes of interest therefore reanalysis of the sample was not necessary.



CLIENT: CH2MHill
Project: SFPP-Norwalk
Lab Order: N025120
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N025120-001A	EFF-07-20	Wastewater	7/20/2017 1:30:00 PM	7/20/2017	7/28/2017
N025120-001B	EFF-07-20	Wastewater	7/20/2017 1:30:00 PM	7/20/2017	7/28/2017
N025120-001C	EFF-07-20	Wastewater	7/20/2017 1:30:00 PM	7/20/2017	7/28/2017
N025120-001D	EFF-07-20	Wastewater	7/20/2017 1:30:00 PM	7/20/2017	7/28/2017
N025120-001E	EFF-07-20	Wastewater	7/20/2017 1:30:00 PM	7/20/2017	7/28/2017
N025120-001F	EFF-07-20	Wastewater	7/20/2017 1:30:00 PM	7/20/2017	7/28/2017
N025120-001G	EFF-07-20	Wastewater	7/20/2017 1:30:00 PM	7/20/2017	7/28/2017
N025120-001H	EFF-07-20	Wastewater	7/20/2017 1:30:00 PM	7/20/2017	7/28/2017
N025120-001I	EFF-07-20	Wastewater	7/20/2017 1:30:00 PM	7/20/2017	7/28/2017
N025120-001J	EFF-07-20	Wastewater	7/20/2017 1:30:00 PM	7/20/2017	7/28/2017



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 28-Jul-17

CLIENT: CH2MHill	Client Sample ID: EFF-07-20
Lab Order: N025120	Collection Date: 7/20/2017 1:30:00 PM
Project: SFPP-Norwalk	Matrix: WASTEWATER
Lab ID: N025120-001	

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

SM2540D

RunID: NV00922-WC_170721E	QC Batch: 62982			PrepDate	7/21/2017		Analyst: LR
Suspended Solids (Residue, Non-Filterable)	ND	10	10		mg/L	1	7/21/2017 10:40 AM

SETTLABLE MATTER

SM2540F

RunID: NV00922-WC_170721H	QC Batch: 62983			PrepDate	7/21/2017		Analyst: QBM
Settleable Matter	ND	0.095	0.095		ml/L	1	7/21/2017

HEXANE EXTRACTABLE MATERIAL (HEM)

EPA 1664 _HEM REV B

RunID: NV00922-WC_170727A	QC Batch: 63068			PrepDate	7/27/2017		Analyst: LR
Oil & Grease	2.4	0.73	4.5	J	mg/L	1	7/27/2017 07:23 AM

TURBIDITY

SM 2130B

RunID: NV00922-WC_170721F	QC Batch: R116504			PrepDate			Analyst: LR
Turbidity	0.26	0.10	0.10		NTU	1	7/21/2017 03:15 PM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3510C

EPA 8270C

RunID: NV00922-MS3_170727B	QC Batch: 63078			PrepDate	7/27/2017		Analyst: JJS
Phenol	ND	0.36	1.1		µg/L	1	7/28/2017 12:06 AM
Surr: 1,2-Dichlorobenzene-d4	72.0	0	16-120		%REC	1	7/28/2017 12:06 AM
Surr: Phenol-d5	36.0	0	15-120		%REC	1	7/28/2017 12:06 AM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS8_170721A	QC Batch: R17VW091			PrepDate			Analyst: RB
1,1-Dichloroethane	ND	0.13	0.50		ug/L	1	7/21/2017 11:30 AM
1,2-Dichloroethane	ND	0.13	0.50		ug/L	1	7/21/2017 11:30 AM
Benzene	ND	0.14	1.0		ug/L	1	7/21/2017 11:30 AM
Ethylbenzene	ND	0.14	1.0		ug/L	1	7/21/2017 11:30 AM
m,p-Xylene	ND	0.23	1.0		ug/L	1	7/21/2017 11:30 AM
MTBE	ND	0.13	1.0		ug/L	1	7/21/2017 11:30 AM
o-Xylene	ND	0.13	1.0		ug/L	1	7/21/2017 11:30 AM
Tert-Butanol	ND	1.8	5.0		ug/L	1	7/21/2017 11:30 AM
Toluene	ND	0.14	2.0		ug/L	1	7/21/2017 11:30 AM

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: 28-Jul-17

CLIENT: CH2MHill
Lab Order: N025120
Project: SFPP-Norwalk
Lab ID: N025120-001

Client Sample ID: EFF-07-20
Collection Date: 7/20/2017 1:30:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID: MS8_170721A	QC Batch: R17VW091	PrepDate	Analyst: RB				
Xylenes, Total	ND	1.5	2.0	ug/L	1	7/21/2017 11:30 AM	
Surr: 1,2-Dichloroethane-d4	128	0	72-119	S	%REC	1	7/21/2017 11:30 AM
Surr: 4-Bromofluorobenzene	88.2	0	76-119		%REC	1	7/21/2017 11:30 AM
Surr: Dibromofluoromethane	129	0	85-115	S	%REC	1	7/21/2017 11:30 AM
Surr: Toluene-d8	105	0	81-120		%REC	1	7/21/2017 11:30 AM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: NV00922-GC3_170721A	QC Batch: 62976	PrepDate	7/21/2017	Analyst: QCE			
TPH-Diesel (C13-C22)	ND	16	26	ug/L	1	7/21/2017 06:50 PM	
TPH-Oil (C23-C36)	15	14	26	J	ug/L	1	7/21/2017 06:50 PM
Surr: Octacosane	111	0	26-152		%REC	1	7/21/2017 06:50 PM
Surr: p-Terphenyl	118	0	57-132		%REC	1	7/21/2017 06:50 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: NV00922-GC4_170721A	QC Batch: E17VW066	PrepDate	Analyst: RB				
TPH-Gasoline (C4-C12)	ND	16	50	ug/L	1	7/21/2017 12:33 PM	
Surr: Chlorobenzene - d5	117	0	74-138		%REC	1	7/21/2017 12:33 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 245.1

RunID: NV00922-AA1_170721D	QC Batch: 62971	PrepDate	7/21/2017	Analyst: MG		
Mercury	ND	0.018	0.050	µg/L	1	7/21/2017 02:30 PM

TOTAL METALS BY ICPMS

EPA 200.8

RunID: NV00922-ICP7_170721B	QC Batch: 62970	PrepDate	7/21/2017	Analyst: CEI		
Copper	ND	0.26	0.50	µg/L	1	7/21/2017 08:33 PM
Lead	ND	0.037	0.50	µg/L	1	7/21/2017 08:33 PM
Zinc	6.1	0.27	1.0	µg/L	1	7/21/2017 08:33 PM

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_170721A	QC Batch: R116532	PrepDate	Analyst: QCE			
Total TPH	ND	16	100	ug/L	1	7/21/2017

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: N025120
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID	LCS-62982	SampType:	LCS	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	7/21/2017	RunNo:	116500			
Client ID:	LCSW	Batch ID:	62982	TestNo:	SM2540D			Analysis Date:	7/21/2017	SeqNo:	2699500			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter		929.000		10	1000	0		92.9	80	120				

Sample ID	MB-62982	SampType:	MBLK	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	7/21/2017	RunNo:	116500			
Client ID:	PBW	Batch ID:	62982	TestNo:	SM2540D			Analysis Date:	7/21/2017	SeqNo:	2699501			
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	N025084-001DDUP	SampType:	DUP	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	7/21/2017	RunNo:	116500			
Client ID:	ZZZZZ	Batch ID:	62982	TestNo:	SM2540D			Analysis Date:	7/21/2017	SeqNo:	2699503			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter		99.000		10							98.00	1.02	5	

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N025120
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.5_2540F_W

Sample ID MB-62983	SampType: MBLK	TestCode: 160.5_2540F_ Units: mI/L	Prep Date: 7/21/2017	RunNo: 116697							
Client ID: PBW	Batch ID: 62983	TestNo: SM2540F	Analysis Date: 7/21/2017	SeqNo: 2710239							
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: N025120
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_HEM_W

Sample ID MB-63068	SampType: MBLK	TestCode: 1664_HEM_	Units: mg/L	Prep Date: 7/27/2017	RunNo: 116644						
Client ID: PBW	Batch ID: 63068	TestNo: EPA 1664 _H		Analysis Date: 7/27/2017	SeqNo: 2707551						
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-63068	SampType: LCS	TestCode: 1664_HEM_	Units: mg/L	Prep Date: 7/27/2017	RunNo: 116644						
Client ID: LCSW	Batch ID: 63068	TestNo: EPA 1664 _H		Analysis Date: 7/27/2017	SeqNo: 2707552						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	33.000	4.0	40.00	0	82.5	78	114
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Sample ID LCSD-63068	SampType: LCSD	TestCode: 1664_HEM_	Units: mg/L	Prep Date: 7/27/2017	RunNo: 116644						
Client ID: LCSS02	Batch ID: 63068	TestNo: EPA 1664 _H		Analysis Date: 7/27/2017	SeqNo: 2707553						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	33.600	4.0	40.00	0	84.0	78	114	33.00	1.80	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: N025120
 Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID	MB-62970	SampType:	MBLK	TestCode:	200.8_W_SF	Units:	µg/L	Prep Date:	7/21/2017	RunNo:	116508			
Client ID:	PBW	Batch ID:	62970	TestNo:	EPA 200.8			Analysis Date:	7/21/2017	SeqNo:	2699831			
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-62970	SampType:	LCS	TestCode:	200.8_W_SF	Units:	µg/L	Prep Date:	7/21/2017	RunNo:	116508			
Client ID:	LCSW	Batch ID:	62970	TestNo:	EPA 200.8			Analysis Date:	7/21/2017	SeqNo:	2699832			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	9.829	0.50	10.00	0	98.3	85	115							
Lead	9.827	0.50	10.00	0	98.3	85	115							
Zinc	101.567	1.0	100.0	0	102	85	115							

Sample ID	N025120-001G-DUP	SampType:	DUP	TestCode:	200.8_W_SF	Units:	µg/L	Prep Date:	7/21/2017	RunNo:	116508			
Client ID:	ZZZZZ	Batch ID:	62970	TestNo:	EPA 200.8			Analysis Date:	7/21/2017	SeqNo:	2699834			
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	6.431	1.0									6.073	5.73	20	

Sample ID	N025120-001G-MS	SampType:	MS	TestCode:	200.8_W_SF	Units:	µg/L	Prep Date:	7/21/2017	RunNo:	116508			
Client ID:	ZZZZZ	Batch ID:	62970	TestNo:	EPA 200.8			Analysis Date:	7/21/2017	SeqNo:	2699837			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	10.080	0.50	10.00	0	101	75	125							
Lead	12.635	0.50	10.00	0	126	75	125							S
Zinc	121.240	1.0	100.0	6.073	115	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: N025120
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID	N025120-001G-MSD	SampType:	MSD	TestCode:	200.8_W_SF	Units:	µg/L	Prep Date:	7/21/2017	RunNo:	116508
Client ID:	ZZZZZZ	Batch ID:	62970	TestNo:	EPA 200.8			Analysis Date:	7/21/2017	SeqNo:	2699838
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	10.150	0.50	10.00	0	102	75	125	10.08	0.691	20	
Lead	12.578	0.50	10.00	0	126	75	125	12.63	0.452	20	S
Zinc	121.350	1.0	100.0	6.073	115	75	125	121.2	0.0910	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: N025120
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 2130_W

Sample ID MB-R116504	SampType: MBLK	TestCode: 2130_W	Units: NTU	Prep Date:	RunNo: 116504						
Client ID: PBW	Batch ID: R116504	TestNo: SM 2130B		Analysis Date: 7/21/2017	SeqNo: 2699536						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	ND	0.10									

Sample ID N025120-001EDUP	SampType: DUP	TestCode: 2130_W	Units: NTU	Prep Date:	RunNo: 116504						
Client ID: ZZZZZ	Batch ID: R116504	TestNo: SM 2130B		Analysis Date: 7/21/2017	SeqNo: 2699538						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	0.240	0.10						0.2600	8.00	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: N025120
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID MB-62971	SampType: MBLK	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 7/21/2017	RunNo: 116496						
Client ID: PBW	Batch ID: 62971	TestNo: EPA 245.1		Analysis Date: 7/21/2017	SeqNo: 2699427						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050

Sample ID LCS-62971	SampType: LCS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 7/21/2017	RunNo: 116496						
Client ID: LCSW	Batch ID: 62971	TestNo: EPA 245.1		Analysis Date: 7/21/2017	SeqNo: 2699429						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.656 0.050 2.500 0 106 85 115

Sample ID N025120-001G-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 7/21/2017	RunNo: 116496						
Client ID: ZZZZZZ	Batch ID: 62971	TestNo: EPA 245.1		Analysis Date: 7/21/2017	SeqNo: 2699430						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.672 0.050 2.500 0 107 75 125

Sample ID N025120-001G-MSD	SampType: MSD	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 7/21/2017	RunNo: 116496						
Client ID: ZZZZZZ	Batch ID: 62971	TestNo: EPA 245.1		Analysis Date: 7/21/2017	SeqNo: 2699431						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.664 0.050 2.500 0 107 75 125 2.672 0.300 20

Sample ID N025120-001G-DUP	SampType: DUP	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 7/21/2017	RunNo: 116496						
Client ID: ZZZZZZ	Batch ID: 62971	TestNo: EPA 245.1		Analysis Date: 7/21/2017	SeqNo: 2699432						
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:

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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: N025120
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID MB-62976	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 7/21/2017	RunNo: 116532						
Client ID: PBW	Batch ID: 62976	TestNo: EPA 8015B EPA 3510C		Analysis Date: 7/21/2017	SeqNo: 2701917						
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)	20.631	25									J
Surr: Octacosane	77.622		80.00		97.0	26	152				
Surr: p-Terphenyl	82.553		80.00		103	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: N025120
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID MB-R116532	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date:	RunNo: 116532						
Client ID: PBW	Batch ID: R116532	TestNo: EPA 8015B		Analysis Date: 7/21/2017	SeqNo: 2702263						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	20.631	100									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: N025120
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID E170721LCS	SampType: LCS	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 116493						
Client ID: LCSW	Batch ID: E17VW066	TestNo: EPA 8015B	Analysis Date: 7/21/2017	SeqNo: 2699385							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	933.000	50	1000	0	93.3	67	136				
Surr: Chlorobenzene - d5	48717.000		50000		97.4	74	138				

Sample ID E170721LCSD	SampType: LCSD	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 116493						
Client ID: LCSS02	Batch ID: E17VW066	TestNo: EPA 8015B	Analysis Date: 7/21/2017	SeqNo: 2699386							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	801.000	50	1000	0	80.1	67	136	933.0	15.2	30	
Surr: Chlorobenzene - d5	49560.000		50000		99.1	74	138		0	0	

Sample ID E170721MB1	SampType: MBLK	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 116493						
Client ID: PBW	Batch ID: E17VW066	TestNo: EPA 8015B	Analysis Date: 7/21/2017	SeqNo: 2699387							
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	57282.000		50000		115	74	138				

Sample ID N025119-001AMS	SampType: MS	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 116493						
Client ID: ZZZZZZ	Batch ID: E17VW066	TestNo: EPA 8015B	Analysis Date: 7/21/2017	SeqNo: 2699390							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	871.000	50	1000	17.00	85.4	67	136				
Surr: Chlorobenzene - d5	48744.000		50000		97.5	74	138				

Sample ID N025119-001AMSD	SampType: MSD	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 116493						
Client ID: ZZZZZZ	Batch ID: E17VW066	TestNo: EPA 8015B	Analysis Date: 7/21/2017	SeqNo: 2699391							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	897.000	50	1000	17.00	88.0	67	136	871.0	2.94	30	

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N025120
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID N025119-001AMSD	SampType: MSD	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 116493						
Client ID: ZZZZZZ	Batch ID: E17VW066	TestNo: EPA 8015B		Analysis Date: 7/21/2017	SeqNo: 2699391						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	50161.000		50000		100	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: N025120
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
R170721LCS	LCS	8260_WP_SF	ug/L		116525						
Client ID: LCSW	Batch ID: R17VW091	TestNo: EPA 8260B		Analysis Date: 7/21/2017	SeqNo: 2700887						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	17.530	0.50	20.00	0	87.6	69	133				
1,2-Dichloroethane	19.870	0.50	20.00	0	99.4	69	132				
Benzene	21.160	1.0	20.00	0	106	81	122				
Ethylbenzene	19.980	1.0	20.00	0	99.9	73	127				
m,p-Xylene	42.590	1.0	40.00	0	106	76	128				
MTBE	15.620	1.0	20.00	0	78.1	65	123				
o-Xylene	20.050	1.0	20.00	0	100	80	121				
Tert-Butanol	84.830	5.0	100.0	0	84.8	70	130				
Toluene	20.600	2.0	20.00	0	103	77	122				
Xylenes, Total	62.640	2.0	60.00	0	104	75	125				
Surr: 1,2-Dichloroethane-d4	27.230		25.00		109	72	119				
Surr: 4-Bromofluorobenzene	26.690		25.00		107	76	119				
Surr: Dibromofluoromethane	27.490		25.00		110	85	115				
Surr: Toluene-d8	26.650		25.00		107	81	120				

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
R170721MB2	MBLK	8260_WP_SF	ug/L		116525						
Client ID: PBW	Batch ID: R17VW091	TestNo: EPA 8260B		Analysis Date: 7/21/2017	SeqNo: 2700889						
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	2.120	5.0									J
Toluene	ND	2.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	28.990		25.00		116	72	119				

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: N025120
 Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID R170721MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116525						
Client ID: PBW	Batch ID: R17VW091	TestNo: EPA 8260B	Analysis Date: 7/21/2017	SeqNo: 2700889							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	22.320		25.00		89.3	76	119				
Surr: Dibromofluoromethane	29.050		25.00		116	85	115				S
Surr: Toluene-d8	25.190		25.00		101	81	120				

Sample ID N025120-001FMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116525						
Client ID: ZZZZZ	Batch ID: R17VW091	TestNo: EPA 8260B	Analysis Date: 7/21/2017	SeqNo: 2700894							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	17.490	0.50	20.00	0	87.5	69	133				
1,2-Dichloroethane	20.220	0.50	20.00	0	101	69	132				
Benzene	21.220	1.0	20.00	0	106	81	122				
Ethylbenzene	19.740	1.0	20.00	0	98.7	73	127				
m,p-Xylene	41.600	1.0	40.00	0	104	76	128				
MTBE	15.220	1.0	20.00	0	76.1	65	123				
o-Xylene	19.510	1.0	20.00	0	97.6	80	121				
Tert-Butanol	80.930	5.0	100.0	0	80.9	70	130				
Toluene	20.390	2.0	20.00	0	102	77	122				
Xylenes, Total	61.110	2.0	60.00	0	102	75	125				
Surr: 1,2-Dichloroethane-d4	25.920		25.00		104	72	119				
Surr: 4-Bromofluorobenzene	25.270		25.00		101	76	119				
Surr: Dibromofluoromethane	26.350		25.00		105	85	115				
Surr: Toluene-d8	25.630		25.00		103	81	120				

Sample ID N025120-001FMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116525						
Client ID: ZZZZZ	Batch ID: R17VW091	TestNo: EPA 8260B	Analysis Date: 7/21/2017	SeqNo: 2700895							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	17.710	0.50	20.00	0	88.6	69	133	17.49	1.25	20	
1,2-Dichloroethane	20.540	0.50	20.00	0	103	69	132	20.22	1.57	20	
Benzene	21.770	1.0	20.00	0	109	81	122	21.22	2.56	20	

Qualifiers:

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CLIENT: CH2MHill
Work Order: N025120
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
N025120-001FMSD	MSD	8260_WP_SF	ug/L		116525						
Client ID: ZZZZZZ	Batch ID: R17VW091	TestNo: EPA 8260B		Analysis Date: 7/21/2017	SeqNo: 2700895						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	20.470	1.0	20.00	0	102	73	127	19.74	3.63	20	
m,p-Xylene	42.880	1.0	40.00	0	107	76	128	41.60	3.03	20	
MTBE	15.580	1.0	20.00	0	77.9	65	123	15.22	2.34	20	
o-Xylene	20.270	1.0	20.00	0	101	80	121	19.51	3.82	20	
Tert-Butanol	80.760	5.0	100.0	0	80.8	70	130	80.93	0.210	20	
Toluene	20.880	2.0	20.00	0	104	77	122	20.39	2.37	20	
Xylenes, Total	63.150	2.0	60.00	0	105	75	125	61.11	3.28	20	
Surr: 1,2-Dichloroethane-d4	25.130		25.00		101	72	119		0		
Surr: 4-Bromofluorobenzene	25.240		25.00		101	76	119		0		
Surr: Dibromofluoromethane	25.820		25.00		103	85	115		0		
Surr: Toluene-d8	25.300		25.00		101	81	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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| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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

NEVADA | P:702.307.2659 F:702.307.269
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NVO0922
 ORELAP/NELAP Cert 4046

CLIENT: CH2MHill
Work Order: N025120
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID LCS-63078	SampType: LCS	TestCode: 8270WATER_ Units: µg/L	Prep Date: 7/27/2017	RunNo: 116673							
Client ID: LCSW	Batch ID: 63078	TestNo: EPA 8270C EPA 3510C	Analysis Date: 7/27/2017	SeqNo: 2709013							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.360	1.0	6.000	0	39.3	24	120				
Surr: 1,2-Dichlorobenzene-d4	0.750		1.000		75.0	16	120				
Surr: Phenol-d5	0.390		1.000		39.0	15	120				

Sample ID LCSD-63078	SampType: LCSD	TestCode: 8270WATER_ Units: µg/L	Prep Date: 7/27/2017	RunNo: 116673							
Client ID: LCSS02	Batch ID: 63078	TestNo: EPA 8270C EPA 3510C	Analysis Date: 7/27/2017	SeqNo: 2709014							
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	2.360	7.47	20	
Surr: 1,2-Dichlorobenzene-d4	0.680		1.000		68.0	16	120		0		
Surr: Phenol-d5	0.360		1.000		36.0	15	120		0		

Sample ID MB-63078	SampType: MBLK	TestCode: 8270WATER_ Units: µg/L	Prep Date: 7/27/2017	RunNo: 116673							
Client ID: PBW	Batch ID: 63078	TestNo: EPA 8270C EPA 3510C	Analysis Date: 7/27/2017	SeqNo: 2709015							
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	0.700		1.000		70.0	16	120				
Surr: Phenol-d5	0.310		1.000		31.0	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 |

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

CHAIN OF CUSTODY RECORD
 DATE: 7/20/17
 PAGE: 1 of 1

Section A Required Client Information: Company: Kinder Morgan Energy Partners Attention: Steve Defibaugh Address: 1100 Town & Country Road Orange, CA 92868 Email To: steve_defibaugh@kindermorgan.com eric.davis@ch2m.com Phone: 714-560-4802 Fax: 714-560-4801	Section B Required Project Information: Report To: Eric Davis Copy To: Steve Defibaugh Purchase Order No.: Project Name: SFPP Norwalk	Section C Invoice Information: Attention: Steve Defibaugh - Ref. AFER 81195 Company: Kinder Morgan Energy Partners Name: Address: 1100 Town & Country Road Orange, CA 92868 ATL Project Manager: Marlon Cartin	Section D Sampler Information: Sampler Name: James Dye Name: [Signature] Sampler Signature: Sample Date: 7/20/17
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ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G=GRAB, C=COMP)	DATE	TIME	TOTAL # OF CONTAINERS	Analysis Test													Comments	
								CONTAINER TYPE	# OF CONTAINERS	PRESERVATIVE	VOLUME (mL)	V	V	A	P	A	P	P	G	P		P
												87EA, 1,1-DCA, 1,2-DCA, MTBE, TBA (B2608)	TPH-gas (8015B)	TPH-4, TPH-oil, Total TPH (8015B)	Cu, Pb, Zn (200.B), Hg (245.1)	Phenol (8270)	BOD (@ 20 deg. C)(SM5210B)	Total Suspended Solids (SM2540D); Turbidity (SM2130B)	Oil & Grease (1664)	Ammonia Nitrogen (as N) (SH-4500 NH3C)		Settleable Solids (SM2540F)
1	EFF-07-00	EFFLUENT	WW	G	7/20/17	1330	17		X	X	X	X	X	X	X	X	X	X	X	N025120-01		
2																				Report metals, TPH and VOC preliminary data on 24-hr TAT		
3																				Report total Xylenes		
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Relinquished by (Signature and Printed Name): [Signature] 7/20/17 1330	Relinquished by (Signature and Printed Name): [Signature] 7/20/17 15:10	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: 3.5°C JCL #2
Relinquished by (Signature and Printed Name): [Signature] 7/20/17 1532	Relinquished by (Signature and Printed Name): Yeantra Requiez 7/21/17		
Relinquished by (Signature and Printed Name):	Relinquished by (Signature and Printed Name): 8:39 AM		

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

630 A: 6026

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: 7/20/2017 Workorder: N025120
 Rep sample Temp (Deg C): 3.5 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 6026 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 YR 7/21/2017

Reviewed By: HS 7/24/2017



CHAIN OF CUSTODY RECORD

Contact us:
 Nevada: 3151 W. Post Road, Las Vegas, NV 89118
 P: 702.307.2659 F: 702.3072691
 California: 11110 Artesia Blvd. Ste. B • Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436
 www.assetlaboratories.com

Page 1 of 1

Client: Asset Labs		Report to:		Bill to:		EDD Requirement		QA/QC		Sample Receipt Condition	
Address:		Company:		Address:		Excel EDD <input type="checkbox"/>		RTNE <input type="checkbox"/>		Y N	
Address:		Email:		Address:		Geotracker <input type="checkbox"/>		RWQCB <input type="checkbox"/>		1. Chilled <input type="checkbox"/>	
Phone:		Address:		Email to:		Labspec <input type="checkbox"/>		CalTrans <input type="checkbox"/>		2. Headspace <input type="checkbox"/>	
Submitted By: Molky Brar		Address:		PO#		Others <input type="checkbox"/>		Level III <input type="checkbox"/>		3. Container Intact <input type="checkbox"/>	
Title:		Phone:		Phone:		N25120A		LEVEL IV <input type="checkbox"/>		4. Seal Present <input type="checkbox"/>	
Signature:		Date:		Fax:		Global ID:		Regulatory <input type="checkbox"/>		5. IR number	
I hereby authorize ASSET Labs to perform the tests indicated below:		Sampler's Signature and Date:		Matrix		Analyses Requested		Specify State:		6. Method of Cooling	
Project Name:		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.		Ground <input type="checkbox"/>		Sediment <input type="checkbox"/>		Turn Around Time		Sample Temp:	
Project Number:		Sampler's Name:		Potable <input type="checkbox"/>		Soil <input type="checkbox"/>		No. of container		Courier:	
				NFDES <input type="checkbox"/>		Other Solid <input type="checkbox"/>		Container Type		Tracking No.	
				Surface <input type="checkbox"/>				PRESERVATION			

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	Remarks
1	N025120-01	EFF-07-20	7/20/17	1330	X			BOD Ammonia X X E 2 P
2								
3								
4								
5								
6								
7								
8								
9								
10								

Relinquished by (Signature and Printed Name): <i>[Signature]</i>	Date / Time: 7/20/17 1536	Received by (Signature and Printed Name):	Date / Time:	Turn Around Time (TAT) <input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays TAT Starts at 8 AM the following day if samples received after 3:00 PM.	Special Instruction:
Relinquished by (Signature and Printed Name):	Date / Time:	Received by (Signature and Printed Name):	Date / Time:		
Relinquished by (Signature and Printed Name):	Date / Time:	Received by (Signature and Printed Name):	Date / Time:		

Terms
 1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
 2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.
 3. Less than 24 Hrs = 200% Next Day = 100% 2 Workdays = 50% 3 Workdays = 35% 4 Workdays = 20%
 4. Custom EDD formats will be an additional 3% of the total project price.
 5. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.

5. Trip Blanks and Equipment Blanks are billable sample.
 6. ASSET Laboratories is not responsible for samples collected using incorrect methodology.
 7. Terms are net 30 Days.
 8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of reports is needed.
 9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:
 H = HCl N = HNO3 S = H2SO4 C = 4°C
 Z = Zn(AC)2 O = NaOH T = Na2S2O3

Container Type:
 T = Tube V = VOA P = Pint
 J = Jar B = Tedlar G = Glass
 M = Metal P = Plastic C = Can

ASSET Laboratories

WORK ORDER Summary

20-Jul-17

WorkOrder: N025120

Client ID: CH2HI03

Project: SFPP-Norwalk

QC Level: RTNE

Date Received: 7/20/2017

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
N025120-001A	EFF-07-20	7/20/2017 1:30:00 PM	7/27/2017	Wastewater		Oil and Grease Sample Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/27/2017		EPA 1664_HEM	Hexane Extractable Material (HEM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025120-001B			7/21/2017		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N025120-001C			7/21/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/21/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/21/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025120-001D			7/27/2017		SM2540F	SETTLEABLE MATTER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/27/2017			Setteable Matter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025120-001E			7/27/2017		SM2540D	TOTAL NON-FILTERABLE RESIDUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/27/2017			Total Suspended Solids Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/27/2017		SM 2130B	TURBIDITY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025120-001F			7/21/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N025120-001G			7/21/2017			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/21/2017		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/21/2017		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/21/2017			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025120-001H			7/27/2017		SM4500-NH3C	AMMONIA-N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N025120-001I			7/27/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/27/2017		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025120-001J			7/27/2017		SM 5210 B	BIOCHEMICAL OXYGEN DEMAND	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB

ASSET Laboratories

WORK ORDER Summary

20-Jul-17

WorkOrder: N025120

Client ID: CH2HI03

Project: SFPP-Norwalk

QC Level: RTNE

Date Received: 7/20/2017

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
N025120-002A	FOLDER		7/21/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			7/21/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

7/20/2017



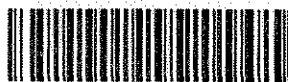
800-322-5555 www.gso.com

Ship From

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

Tracking #: 536936026

CPS



Ship To

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

LVS
LAS VEGAS

A

COD: \$0.00

Weight: 0 lb(s)

Reference:

C89102A

Delivery Instructions:

HOLD FOR PICK-UP

Signature Type: NOT REQUIRED



69755558

Print Date: 7/20/2017 4:40 PM

LABEL INSTRUCTIONS:

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

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

30502
1R#2



Date of Report: 07/28/2017

Molky Brar

ASSET Laboratories

3151-3153 W. Post Rd

Las Vegas, NV 89118

Client Project: SFPP
BCL Project: Cerritos
BCL Work Order: 1720095
Invoice ID: B274572

Enclosed are the results of analyses for samples received by the laboratory on 7/21/2017. 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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1720095-01 - EFF-07-20

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Water Analysis (General Chemistry)

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

CHAIN OF CUSTODY RECORD



Report to: 17-20095

Page 1 of 1

Client: Asset Labs, Address, Company, Email, Phone, Submitted By: Molly Bear, Title, Signature, Date, Sampler's Signature and Date, Project Name: SFPP Norwalk, Project Number:

Matrix table with columns for Ground, Portable, NPDES, Surface, Water, Solid, Others. Includes handwritten 'Ammonia' and 'X' marks.

Item No., Laboratory Work Order No. (EFF-07-20), Date (7/20/17), Time (1330), Date / Time (7-21-17 09:00)

Table with columns for Turn Around Time (TAT), Special Instruction, and Turn Around Time (TAT) options (A, B, C, D).

Requisitioned by (Signature and Printed Name), Date / Time (7/20/17 1536), Received by (Signature and Printed Name), Date / Time (7-21-17 09:00)

Terms and Conditions, Container Type (V=VOA, T=Tube, B=Tealor, M=Metal), and other notes.



BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 17-20095

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

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received YES NO Emissivity: 0.95 Container: Apple Thermometer ID: 208 Date/Time: 7/21/17
 Temperature: (A) 0 °C / (C) 0.3 °C Analyst Init: AD09:00

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

Comments: _____
 Sample Numbering Completed By: 608 Date/Time: 7/21 1811
 A = Actual / C = Corrected

Rev 21 05/23/2016
 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 20]



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

Reported: 07/28/2017 15:15
Project: Cerritos
Project Number: SFPP
Project Manager: Molky Brar

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1720095-01	COC Number:	---	Receive Date:	07/21/2017 09:00
	Project Number:	---	Sampling Date:	07/20/2017 13:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	EFF-07-20	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water

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

Reported: 07/28/2017 15:15
Project: Cerritos
Project Number: SFPP
Project Manager: Molky Brar

Water Analysis (General Chemistry)

BCL Sample ID: 1720095-01	Client Sample Name: EFF-07-20, 7/20/2017 1:30:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ammonia as NH3	ND	mg/L	0.13	0.025	EPA-350.1	ND		1
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-350.1	07/25/17	07/25/17	13:15	JMH	SC-1	1	B[G1972
2	SM17-5210B	07/22/17	07/22/17	10:30	JRG	YSIPRO	1.525	B[G2381

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

Reported: 07/28/2017 15:15
Project: Cerritos
Project Number: SFPP
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: B[G1972]						
Ammonia as NH3	B[G1972-BLK1	ND	mg/L	0.13	0.025	
QC Batch ID: B[G2381]						
Biochemical Oxygen Demand - Seeded	B[G2381-BLK1	ND	mg/L	1.0	1.0	

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

Reported: 07/28/2017 15:15
Project: Cerritos
Project Number: SFPP
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: B[G1972										
Ammonia as NH3	B[G1972-BS1	LCS	1.1800	1.2160	mg/L	97.0		90 - 110		
QC Batch ID: B[G2381										
Biochemical Oxygen Demand - Seeded	B[G2381-BS1	LCS	196.12	198.00	mg/L	99.0		85 - 115		

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

Reported: 07/28/2017 15:15
Project: Cerritos
Project Number: SFPP
Project Manager: Molky Brar

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: B[G1972]		Used client sample: N								
Ammonia as NH3	DUP	1719197-01	0.045843	0.050099		mg/L	8.9		10	
	MS	1719197-01	0.045843	1.3453	1.3511	mg/L		96.2		90 - 110
	MSD	1719197-01	0.045843	1.3719	1.3511	mg/L	2.0	98.1	10	90 - 110
QC Batch ID: B[G2381]		Used client sample: N								
Biochemical Oxygen Demand - Seeded	DUP	1720081-01	3426.2	3782.0		mg/L	9.9		20	

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

Reported: 07/28/2017 15:15
Project: Cerritos
Project Number: SFPP
Project Manager: Molky Brar

Notes And Definitions

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

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Kinder Morgan Field Meter Calibration and Log Form

Site Name	Site Location	Project Manager	CH2M Personnel	Norwalk Effluent Monitoring Form SFPP Norwalk Pump Station Norwalk, CA Form Revised 5/30/17	
SFPP Norwalk Pump Station	Norwalk, CA	Steve Defibaugh	Eric Davis, PM Vladimir Carino		
Date	Time	SAMPLE TYPE (circle one):		Discharge Permit	Expiration Date
7/20/2017	1400	<input checked="" type="radio"/> Grab, <input type="radio"/> Composite, <input type="radio"/> Flow-through, <input type="radio"/> Other		R4-2016-0309	11/1/2021
O&M Technician#1	O&M Technician#2				
James Dye					
EQUIPMENT					
Multimeter	Make: YSI				
	Model: 556 MPS				
	Serial Number: 0260275 AC				
CALIBRATION					
Date of Calibration:	7/20/2017	Time:	1400		
Calibration Standard:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Standard	Expiration Date	Calibrated Within 0.2 pH units?	
pH Calibration Standard		4	12/31/2017	<input checked="" type="radio"/> Yes	<input type="radio"/> No
		7	12/31/2017	<input checked="" type="radio"/> Yes	<input type="radio"/> No
		10	12/31/2017	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Cond. Calibration	Equipment Reading: N/A	Calibrated to or within 10%? NO		<input checked="" type="radio"/> Yes	<input type="radio"/> No
FIELD PARAMETERS		FIELD MEASUREMENTS			
		Effluent (EFF-001)	Upstream (RSW-001)	Downstream (RSW-002)	Mid-Point
TIME		1400			
pH (DISCHARGE LIMIT 6.5 - 8.5) (Quarterly, Annually)		7.2			
TEMP (°F) (DISCHARGE LIMIT 86°F) (Quarterly, Annually)		85			
SALINITY (ppt)					
COND (mS/cm or uS/cm; Specific Cond.) <i>Circle or Note Units Used</i>					
OBSERVATIONS					

KINDER MORGAN

Signed: _____

Date: _____

7/20/2017

August 21, 2017

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

TEL:

FAX:

Workorder No.: N025419

RE: SFPP-Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on August 10, 2017 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,



Puri Romualdo
Laboratory Director

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CLIENT: CH2MHill
Project: SFPP-Norwalk
Lab Order: N025419

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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

Analytical Comments for EPA 200.8:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Copper possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.



CLIENT: CH2MHill
Project: SFPP-Norwalk
Lab Order: N025419
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N025419-001A	EFF-08-10	Wastewater	8/10/2017 1:50:00 PM	8/10/2017	8/21/2017
N025419-001B	EFF-08-10	Wastewater	8/10/2017 1:50:00 PM	8/10/2017	8/21/2017
N025419-001C	EFF-08-10	Wastewater	8/10/2017 1:50:00 PM	8/10/2017	8/21/2017
N025419-001D	EFF-08-10	Wastewater	8/10/2017 1:50:00 PM	8/10/2017	8/21/2017
N025419-001E	EFF-08-10	Wastewater	8/10/2017 1:50:00 PM	8/10/2017	8/21/2017



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 21-Aug-17

CLIENT: CH2MHill
Lab Order: N025419
Project: SFPP-Norwalk
Lab ID: N025419-001

Client Sample ID: EFF-08-10
Collection Date: 8/10/2017 1:50:00 PM
Matrix: WASTEWATER

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

EPA 3510C

EPA 8270C

RunID:	NV00922-MS3_170817A	QC Batch:	63376	PrepDate	8/17/2017	Analyst:	JJS
Phenol	ND	0.33	1.0	µg/L	1	8/17/2017 04:43 PM	
Surr: 1,2-Dichlorobenzene-d4	77.0	0	16-120	%REC	1	8/17/2017 04:43 PM	
Surr: Phenol-d5	32.0	0	15-120	%REC	1	8/17/2017 04:43 PM	

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	NV00922-MS5_170811A	QC Batch:	P17VW135	PrepDate		Analyst:	RB
1,1-Dichloroethane	ND	0.13	0.50	ug/L	1	8/11/2017 02:37 PM	
1,2-Dichloroethane	ND	0.13	0.50	ug/L	1	8/11/2017 02:37 PM	
Benzene	ND	0.14	1.0	ug/L	1	8/11/2017 02:37 PM	
Ethylbenzene	ND	0.14	1.0	ug/L	1	8/11/2017 02:37 PM	
m,p-Xylene	ND	0.23	1.0	ug/L	1	8/11/2017 02:37 PM	
MTBE	ND	0.13	1.0	ug/L	1	8/11/2017 02:37 PM	
o-Xylene	ND	0.13	1.0	ug/L	1	8/11/2017 02:37 PM	
Tert-Butanol	ND	1.8	5.0	ug/L	1	8/11/2017 02:37 PM	
Toluene	ND	0.14	2.0	ug/L	1	8/11/2017 02:37 PM	
Xylenes, Total	ND	1.5	2.0	ug/L	1	8/11/2017 02:37 PM	
Surr: 1,2-Dichloroethane-d4	117	0	72-119	%REC	1	8/11/2017 02:37 PM	
Surr: 4-Bromofluorobenzene	104	0	76-119	%REC	1	8/11/2017 02:37 PM	
Surr: Dibromofluoromethane	111	0	85-115	%REC	1	8/11/2017 02:37 PM	
Surr: Toluene-d8	104	0	81-120	%REC	1	8/11/2017 02:37 PM	

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID:	NV00922-GC3_170814A	QC Batch:	63296	PrepDate	8/11/2017	Analyst:	QCE
TPH-Diesel (C13-C22)	ND	16	26	ug/L	1	8/14/2017 11:59 AM	
TPH-Oil (C23-C36)	19	14	26	J ug/L	1	8/14/2017 11:59 AM	
Surr: Octacosane	105	0	26-152	%REC	1	8/14/2017 11:59 AM	
Surr: p-Terphenyl	94.7	0	57-132	%REC	1	8/14/2017 11:59 AM	

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID:	NV00922-GC4_170811A	QC Batch:	E17VW076	PrepDate		Analyst:	admin
TPH-Gasoline (C4-C12)	18	16	50	J ug/L	1	8/11/2017 11:36 AM	
Surr: Chlorobenzene - d5	117	0	74-138	%REC	1	8/11/2017 11:36 AM	

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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ANALYTICAL RESULTS

Print Date: 21-Aug-17

CLIENT: CH2MHill
Lab Order: N025419
Project: SFPP-Norwalk
Lab ID: N025419-001

Client Sample ID: EFF-08-10
Collection Date: 8/10/2017 1:50:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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MERCURY BY COLD VAPOR TECHNIQUE

EPA 245.1

RunID: NV00922-AA1_170813B	QC Batch: 63284				PrepDate	8/11/2017	Analyst: CEI
Mercury	ND	0.018	0.050		µg/L	1	8/13/2017 08:27 PM

TOTAL METALS BY ICPMS

EPA 200.8

RunID: NV00922-ICP7_170811A	QC Batch: 63282				PrepDate	8/11/2017	Analyst: CEI
Copper	ND	0.26	0.50		µg/L	1	8/11/2017 03:48 PM
Lead	ND	0.037	0.50		µg/L	1	8/11/2017 03:48 PM
Zinc	5.8	0.27	1.0		µg/L	1	8/11/2017 03:48 PM

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_170814A	QC Batch: R117073				PrepDate		Analyst: QCE
Total TPH	37	16	100	J	ug/L	1	8/14/2017

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: N025419
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID MB-63282	SampType: MBLK	TestCode: 200.8_W_SF	Units: µg/L	Prep Date: 8/11/2017	RunNo: 117067						
Client ID: PBW	Batch ID: 63282	TestNo: EPA 200.8		Analysis Date: 8/11/2017	SeqNo: 2731334						
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-63282	SampType: LCS	TestCode: 200.8_W_SF	Units: µg/L	Prep Date: 8/11/2017	RunNo: 117067						
Client ID: LCSW	Batch ID: 63282	TestNo: EPA 200.8		Analysis Date: 8/11/2017	SeqNo: 2731335						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.099	0.50	10.00	0	91.0	85	115				
Lead	9.406	0.50	10.00	0	94.1	85	115				
Zinc	91.668	1.0	100.0	0	91.7	85	115				

Sample ID N025419-001D-MS	SampType: MS	TestCode: 200.8_W_SF	Units: µg/L	Prep Date: 8/11/2017	RunNo: 117067						
Client ID: ZZZZZ	Batch ID: 63282	TestNo: EPA 200.8		Analysis Date: 8/11/2017	SeqNo: 2731345						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.472	0.50	10.00	0	74.7	75	125				S
Lead	10.297	0.50	10.00	0	103	75	125				
Zinc	89.621	1.0	100.0	5.787	83.8	75	125				

Sample ID N025419-001D-MSD	SampType: MSD	TestCode: 200.8_W_SF	Units: µg/L	Prep Date: 8/11/2017	RunNo: 117067						
Client ID: ZZZZZ	Batch ID: 63282	TestNo: EPA 200.8		Analysis Date: 8/11/2017	SeqNo: 2731347						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.418	0.50	10.00	0	74.2	75	125	7.472	0.718	20	S
Lead	10.218	0.50	10.00	0	102	75	125	10.30	0.776	20	
Zinc	88.435	1.0	100.0	5.787	82.6	75	125	89.62	1.33	20	

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N025419
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID MB-63284	SampType: MBLK	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 8/11/2017	RunNo: 117063						
Client ID: PBW	Batch ID: 63284	TestNo: EPA 245.1		Analysis Date: 8/13/2017	SeqNo: 2731159						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050

Sample ID LCS-63284	SampType: LCS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 8/11/2017	RunNo: 117063						
Client ID: LCSW	Batch ID: 63284	TestNo: EPA 245.1		Analysis Date: 8/13/2017	SeqNo: 2731160						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.464 0.050 2.500 0 98.6 85 115

Sample ID N025419-001D-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 8/11/2017	RunNo: 117063						
Client ID: ZZZZZ	Batch ID: 63284	TestNo: EPA 245.1		Analysis Date: 8/13/2017	SeqNo: 2731161						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.378 0.050 2.500 0 95.1 75 125

Sample ID N025419-001D-MSD	SampType: MSD	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 8/11/2017	RunNo: 117063						
Client ID: ZZZZZ	Batch ID: 63284	TestNo: EPA 245.1		Analysis Date: 8/13/2017	SeqNo: 2731162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.277 0.050 2.500 0 91.1 75 125 2.378 4.35 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: N025419
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID MB-63296	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 8/11/2017	RunNo: 117073						
Client ID: PBW	Batch ID: 63296	TestNo: EPA 8015B EPA 3510C		Analysis Date: 8/14/2017	SeqNo: 2731801						
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)	18.441	25									J
Surr: Octacosane	76.789		80.00		96.0	26	152				
Surr: p-Terphenyl	69.143		80.00		86.4	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: N025419
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID MB-R117073	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date:	RunNo: 117073						
Client ID: PBW	Batch ID: R117073	TestNo: EPA 8015B		Analysis Date: 8/14/2017	SeqNo: 2731939						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	18.441	100									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: N025419
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID E170811LCS	SampType: LCS	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 117031						
Client ID: LCSW	Batch ID: E17VW076	TestNo: EPA 8015B		Analysis Date: 8/11/2017	SeqNo: 2729868						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1008.000	50	1000	0	101	67	136				
Surr: Chlorobenzene - d5	52637.000		50000		105	74	138				

Sample ID E170811MB1	SampType: MBLK	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 117031						
Client ID: PBW	Batch ID: E17VW076	TestNo: EPA 8015B		Analysis Date: 8/11/2017	SeqNo: 2729869						
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	58021.000		50000		116	74	138				

Sample ID N025419-001BMS	SampType: MS	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 117031						
Client ID: ZZZZZ	Batch ID: E17VW076	TestNo: EPA 8015B		Analysis Date: 8/11/2017	SeqNo: 2729871						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	922.000	50	1000	18.00	90.4	67	136				
Surr: Chlorobenzene - d5	49708.000		50000		99.4	74	138				

Sample ID N025419-001BMSD	SampType: MSD	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 117031						
Client ID: ZZZZZ	Batch ID: E17VW076	TestNo: EPA 8015B		Analysis Date: 8/11/2017	SeqNo: 2729872						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	855.000	50	1000	18.00	83.7	67	136	922.0	7.54	30	
Surr: Chlorobenzene - d5	49761.000		50000		99.5	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: N025419
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
P170811LCS	LCS	8260_WP_SF	ug/L		117034						
Client ID: LCSW	Batch ID: P17VW135	TestNo: EPA 8260B		Analysis Date: 8/11/2017	SeqNo: 2729929						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	19.750	0.50	20.00	0	98.8	69	133				
1,2-Dichloroethane	19.370	0.50	20.00	0	96.9	69	132				
Benzene	19.150	1.0	20.00	0	95.8	81	122				
Ethylbenzene	18.700	1.0	20.00	0	93.5	73	127				
m,p-Xylene	38.520	1.0	40.00	0	96.3	76	128				
MTBE	17.700	1.0	20.00	0	88.5	65	123				
o-Xylene	19.600	1.0	20.00	0	98.0	80	121				
Tert-Butanol	89.970	5.0	100.0	0	90.0	70	130				
Toluene	18.540	2.0	20.00	0	92.7	77	122				
Xylenes, Total	58.120	2.0	60.00	0	96.9	75	125				
Surr: 1,2-Dichloroethane-d4	28.070		25.00		112	72	119				
Surr: 4-Bromofluorobenzene	26.710		25.00		107	76	119				
Surr: Dibromofluoromethane	27.610		25.00		110	85	115				
Surr: Toluene-d8	25.850		25.00		103	81	120				

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
P170811MB3	MBLK	8260_WP_SF	ug/L		117034						
Client ID: PBW	Batch ID: P17VW135	TestNo: EPA 8260B		Analysis Date: 8/11/2017	SeqNo: 2729930						
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	29.150		25.00		117	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: N025419
 Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID P170811MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117034						
Client ID: PBW	Batch ID: P17VW135	TestNo: EPA 8260B		Analysis Date: 8/11/2017	SeqNo: 2729930						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	25.980		25.00		104	76	119				
Surr: Dibromofluoromethane	27.780		25.00		111	85	115				
Surr: Toluene-d8	26.620		25.00		106	81	120				

Sample ID N025419-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117034						
Client ID: ZZZZZ	Batch ID: P17VW135	TestNo: EPA 8260B		Analysis Date: 8/11/2017	SeqNo: 2729934						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	22.700	0.50	20.00	0	114	69	133				
1,2-Dichloroethane	21.810	0.50	20.00	0	109	69	132				
Benzene	21.800	1.0	20.00	0	109	81	122				
Ethylbenzene	20.490	1.0	20.00	0	102	73	127				
m,p-Xylene	41.530	1.0	40.00	0	104	76	128				
MTBE	21.340	1.0	20.00	0	107	65	123				
o-Xylene	20.880	1.0	20.00	0	104	80	121				
Tert-Butanol	106.650	5.0	100.0	0	107	70	130				
Toluene	20.540	2.0	20.00	0	103	77	122				
Xylenes, Total	62.410	2.0	60.00	0	104	75	125				
Surr: 1,2-Dichloroethane-d4	28.180		25.00		113	72	119				
Surr: 4-Bromofluorobenzene	26.750		25.00		107	76	119				
Surr: Dibromofluoromethane	27.680		25.00		111	85	115				
Surr: Toluene-d8	25.940		25.00		104	81	120				

Sample ID N025419-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117034						
Client ID: ZZZZZ	Batch ID: P17VW135	TestNo: EPA 8260B		Analysis Date: 8/11/2017	SeqNo: 2729935						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	20.110	0.50	20.00	0	101	69	133	22.70	12.1	20	
1,2-Dichloroethane	19.490	0.50	20.00	0	97.5	69	132	21.81	11.2	20	
Benzene	19.080	1.0	20.00	0	95.4	81	122	21.80	13.3	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: N025419
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
N025419-001AMSD	MSD	8260_WP_SF	ug/L		117034						
Client ID: ZZZZZZ	Batch ID: P17VW135	TestNo: EPA 8260B		Analysis Date: 8/11/2017	SeqNo: 2729935						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	18.280	1.0	20.00	0	91.4	73	127	20.49	11.4	20	
m,p-Xylene	36.900	1.0	40.00	0	92.2	76	128	41.53	11.8	20	
MTBE	19.220	1.0	20.00	0	96.1	65	123	21.34	10.5	20	
o-Xylene	18.920	1.0	20.00	0	94.6	80	121	20.88	9.85	20	
Tert-Butanol	96.180	5.0	100.0	0	96.2	70	130	106.6	10.3	20	
Toluene	17.960	2.0	20.00	0	89.8	77	122	20.54	13.4	20	
Xylenes, Total	55.820	2.0	60.00	0	93.0	75	125	62.41	11.1	20	
Surr: 1,2-Dichloroethane-d4	27.940		25.00		112	72	119		0		
Surr: 4-Bromofluorobenzene	26.680		25.00		107	76	119		0		
Surr: Dibromofluoromethane	27.980		25.00		112	85	115		0		
Surr: Toluene-d8	25.850		25.00		103	81	120		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: N025419
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID LCS-63376	SampType: LCS	TestCode: 8270WATER_ Units: µg/L	Prep Date: 8/17/2017	RunNo: 117190
Client ID: LCSW	Batch ID: 63376	TestNo: EPA 8270C EPA 3510C	Analysis Date: 8/17/2017	SeqNo: 2735415
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Phenol	1.550	1.0 6.000 0	25.8 24 120	
Surr: 1,2-Dichlorobenzene-d4	0.970	1.000	97.0 16 120	
Surr: Phenol-d5	0.270	1.000	27.0 15 120	

Sample ID LCSD-63376	SampType: LCSD	TestCode: 8270WATER_ Units: µg/L	Prep Date: 8/17/2017	RunNo: 117190
Client ID: LCSS02	Batch ID: 63376	TestNo: EPA 8270C EPA 3510C	Analysis Date: 8/17/2017	SeqNo: 2735416
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Phenol	1.860	1.0 6.000 0	31.0 24 120 1.550	18.2 20
Surr: 1,2-Dichlorobenzene-d4	0.710	1.000	71.0 16 120	0
Surr: Phenol-d5	0.310	1.000	31.0 15 120	0

Sample ID MB-63376	SampType: MBLK	TestCode: 8270WATER_ Units: µg/L	Prep Date: 8/17/2017	RunNo: 117190
Client ID: PBW	Batch ID: 63376	TestNo: EPA 8270C EPA 3510C	Analysis Date: 8/17/2017	SeqNo: 2735417
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	0.720	1.000	72.0 16 120	
Surr: Phenol-d5	0.320	1.000	32.0 15 120	

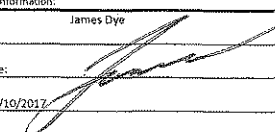
Qualifiers:

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




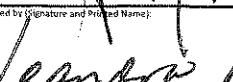

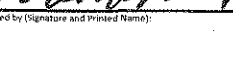
Asset Laboratories
 3151 W. Post Road
 Las Vegas, NV 89118
 Tel: 702-307-2659 Fax: 702-307-2691
 Marlon Cartin (marlon@assetlaboratories.com)

CHAIN OF CUSTODY RECORD

DATE: 8/10/17
 PAGE: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Section D Sampler Information:	
Company: Kinder Morgan Energy Partners Attention: Steve Defibaugh		Report To: Eric Davis		Attention: Steve Defibaugh - Ref. AFE# 81195		Sampler Name: James Dye	
Address: 1100 Town & Country Road Orange, CA 92868		Copy To: Steve Defibaugh		Company: Kinder Morgan Energy Partners		Sampler Name: 	
Email To: steve_defibaugh@kindermorgan.com eric.davis@ch2m.com		Purchase Order No.:		Address: 1100 Town & Country Road Orange, CA 92868		Sampler Signature:	
Phone: 714-560-4802 Fax: 714-560-4801		Project Name: SPPP Norwalk		ATL Project Manager: Marlon Cartin		Sample Date: 08/10/2017	

Section E Required Sample Information																		
ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G=GRAB C=COMP)	SAMPLING		TOTAL # OF CONTAINERS	CONTAINER TYPE					Analysis Test	Comments				
					DATE	TIME		V	V	A	P	A						
1	EFF-0810	EFFLUENT	WW	G	8/10/17	1350	11	3	3	2	1	2	X	X	X	X	X	
2																		Report metals, TPH and VOC preliminary data on 24-hr TAT
3																		Report total Xylenes
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Relinquished by (Signature and Printed Name):  Date / Time: 8/10/17 1430	Relinquished by (Signature and Printed Name):  Date / Time: 8/10/17 1430	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: 4.3°C JR #2 690#: 7579
Relinquished by (Signature and Printed Name):  Date / Time: 8/10/17 1522	Relinquished by (Signature and Printed Name):  Date / Time: 8/21/17		
Relinquished by (Signature and Printed Name):  Date / Time: 8/17/17	Relinquished by (Signature and Printed Name):  Date / Time: 8/17/17		

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	

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: 8/10/2017 Workorder: N025419
 Rep sample Temp (Deg C): 4.3 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 7519 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

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

Comments:

Checklist Completed By: YR YR 8/11/2017

Reviewed By: HS 8/11/2017

ASSET Laboratories

WORK ORDER Summary

11-Aug-17

WorkOrder: N025419

Client ID: CH2HI03

Project: SFPP-Norwalk

QC Level: RTNE

Date Received: 8/10/2017

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
N025419-001A	EFF-08-10	8/10/2017 1:50:00 PM	8/11/2017	Wastewater	EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N025419-001B			8/11/2017		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N025419-001C			8/11/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/11/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/11/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025419-001D			8/11/2017			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/11/2017		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/11/2017		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/11/2017			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025419-001E			8/17/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/17/2017		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025419-002A	FOLDER	8/11/2017	8/11/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			8/11/2017		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 #: 537197519

CPS



Ship To

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

LVS
LAS VEGAS

A

COD: \$0.00

Weight: 0 lb(s)

Reference:

C89102A

Delivery Instructions:

HOLD FOR PICK-UP

Signature Type: NOT REQUIRED



70712779

Print Date: 8/10/2017 6:56 PM

Package 3 of 4

LABEL INSTRUCTIONS:

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

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

4.3°C
J12 #2

September 25, 2017

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

TEL:

FAX:

Workorder No.: N025867

RE: SFPP Norwalk

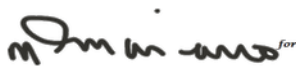
Attention: Eric Davis

Enclosed are the results for sample(s) received on September 12, 2017 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,



Puri Romualdo

Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in
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CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N025867

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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

Analytical Comments for EPA 200.8:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Copper in QC samples N025867-001C-MS and N025867-001C-MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comment for EPA 8270C:

RPD for Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) is outside criteria; however, they are both within laboratory acceptable limit.



CLIENT: CH2M Hill
Project: SFPP Norwalk
Lab Order: N025867
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N025867-001A	EFF-09-12	Wastewater	9/12/2017 2:15:00 PM	9/12/2017	9/25/2017
N025867-001B	EFF-09-12	Wastewater	9/12/2017 2:15:00 PM	9/12/2017	9/25/2017
N025867-001C	EFF-09-12	Wastewater	9/12/2017 2:15:00 PM	9/12/2017	9/25/2017
N025867-001D	EFF-09-12	Wastewater	9/12/2017 2:15:00 PM	9/12/2017	9/25/2017



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 25-Sep-17

CLIENT: CH2MHill
Lab Order: N025867
Project: SFPP Norwalk
Lab ID: N025867-001

Client Sample ID: EFF-09-12
Collection Date: 9/12/2017 2:15:00 PM
Matrix: WASTEWATER

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

EPA 3510C

EPA 8270C

RunID: NV00922-MS3_170922B	QC Batch: 63794			PrepDate: 9/15/2017		Analyst: JJS
Phenol	0.37	0.33	1.0	J	µg/L	1 9/22/2017 07:58 PM
Surr: 1,2-Dichlorobenzene-d4	115	0	16-120		%REC	1 9/22/2017 07:58 PM
Surr: Phenol-d5	46.0	0	15-120		%REC	1 9/22/2017 07:58 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: NV00922-MS5_170913A	QC Batch: P17VW152			PrepDate:		Analyst: QBM
1,1-Dichloroethane	ND	0.022	0.50		ug/L	1 9/13/2017 11:19 AM
1,2-Dichloroethane	ND	0.064	0.50		ug/L	1 9/13/2017 11:19 AM
Benzene	ND	0.036	1.0		ug/L	1 9/13/2017 11:19 AM
Ethylbenzene	ND	0.036	1.0		ug/L	1 9/13/2017 11:19 AM
m,p-Xylene	ND	0.024	1.0		ug/L	1 9/13/2017 11:19 AM
MTBE	ND	0.062	1.0		ug/L	1 9/13/2017 11:19 AM
o-Xylene	ND	0.042	1.0		ug/L	1 9/13/2017 11:19 AM
Tert-Butanol	ND	0.30	5.0		ug/L	1 9/13/2017 11:19 AM
Toluene	ND	0.042	2.0		ug/L	1 9/13/2017 11:19 AM
Xylenes, Total	ND	1.5	2.0		ug/L	1 9/13/2017 11:19 AM
Surr: 1,2-Dichloroethane-d4	98.4	0	72-119		%REC	1 9/13/2017 11:19 AM
Surr: 4-Bromofluorobenzene	100	0	76-119		%REC	1 9/13/2017 11:19 AM
Surr: Dibromofluoromethane	106	0	85-115		%REC	1 9/13/2017 11:19 AM
Surr: Toluene-d8	106	0	81-120		%REC	1 9/13/2017 11:19 AM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: NV00922-GC3_170914A	QC Batch: 63774			PrepDate: 9/14/2017		Analyst: MDM
TPH-Diesel (C13-C22)	ND	16	27		ug/L	1 9/14/2017 01:26 PM
TPH-Oil (C23-C36)	18	14	27	J	ug/L	1 9/14/2017 01:26 PM
Surr: Octacosane	101	0	26-152		%REC	1 9/14/2017 01:26 PM
Surr: p-Terphenyl	101	0	57-132		%REC	1 9/14/2017 01:26 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: NV00922-GC4_170913A	QC Batch: E17VW087			PrepDate:		Analyst: QBM
TPH-Gasoline (C4-C12)	ND	16	50		ug/L	1 9/13/2017 11:26 AM
Surr: Chlorobenzene - d5	117	0	74-138		%REC	1 9/13/2017 11:26 AM

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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ANALYTICAL RESULTS

Print Date: 25-Sep-17

CLIENT: CH2MHill
Lab Order: N025867
Project: SFPP Norwalk
Lab ID: N025867-001

Client Sample ID: EFF-09-12
Collection Date: 9/12/2017 2:15:00 PM
Matrix: WASTEWATER

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

MERCURY BY COLD VAPOR TECHNIQUE

EPA 245.1

RunID: NV00922-AA1_170913A	QC Batch: 63749			PrepDate: 9/13/2017		Analyst: MG
Mercury	ND	0.018	0.050	µg/L	1	9/13/2017 12:27 PM

TOTAL METALS BY ICPMS

EPA 200.8

RunID: NV00922-ICP7_170912F	QC Batch: 63748			PrepDate: 9/13/2017		Analyst: CEI
Copper	ND	0.26	0.50	µg/L	1	9/13/2017 11:50 AM
Lead	ND	0.037	0.50	µg/L	1	9/13/2017 11:50 AM
Zinc	0.40	0.27	1.0	J µg/L	1	9/13/2017 11:50 AM

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_170914A	QC Batch: R117871			PrepDate:		Analyst: MDM
Total TPH	18	16	50	J ug/L	1	9/14/2017

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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ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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

NEVADA | P:702.307.2659 F:702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV00922
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N025867
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: MB-63748	SampType: MBLK	TestCode: 200.8_W_SFPP	Units: µg/L	Prep Date: 9/13/2017	RunNo: 117844						
Client ID: PBW	Batch ID: 63748	TestNo: EPA 200.8		Analysis Date: 9/13/2017	SeqNo: 2762967						
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-63748	SampType: LCS	TestCode: 200.8_W_SFPP	Units: µg/L	Prep Date: 9/13/2017	RunNo: 117844						
Client ID: LCSW	Batch ID: 63748	TestNo: EPA 200.8		Analysis Date: 9/13/2017	SeqNo: 2762968						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	10.424	0.50	10.00	0	104	85	115				
Lead	10.197	0.50	10.00	0	102	85	115				
Zinc	103.315	1.0	100.0	0	103	85	115				

Sample ID: N025867-001C-DUP	SampType: DUP	TestCode: 200.8_W_SFPP	Units: µg/L	Prep Date: 9/13/2017	RunNo: 117844						
Client ID: ZZZZZ	Batch ID: 63748	TestNo: EPA 200.8		Analysis Date: 9/13/2017	SeqNo: 2762971						
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	0.522	1.0						0.3988	0	20	J

Sample ID: N025867-001C-MS	SampType: MS	TestCode: 200.8_W_SFPP	Units: µg/L	Prep Date: 9/13/2017	RunNo: 117844						
Client ID: ZZZZZ	Batch ID: 63748	TestNo: EPA 200.8		Analysis Date: 9/13/2017	SeqNo: 2762973						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	6.994	0.50	10.00	0	69.9	75	125				S
Lead	8.693	0.50	10.00	0	86.9	75	125				
Zinc	84.977	1.0	100.0	0.3988	84.6	75	125				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N025867
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: N025867-001C-MSD		SampType: MSD		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 9/13/2017		RunNo: 117844		
Client ID: ZZZZZ		Batch ID: 63748		TestNo: EPA 200.8			Analysis Date: 9/13/2017		SeqNo: 2762974		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.038	0.50	10.00	0	70.4	75	125	6.994	0.622	20	S
Lead	8.663	0.50	10.00	0	86.6	75	125	8.693	0.339	20	
Zinc	84.457	1.0	100.0	0.3988	84.1	75	125	84.98	0.614	20	

Qualifiers:

- | | | |
|--|--|--|
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CLIENT: CH2MHill
Work Order: N025867
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: MB-63749	SampType: MBLK	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 9/13/2017	RunNo: 117840						
Client ID: PBW	Batch ID: 63749	TestNo: EPA 245.1		Analysis Date: 9/13/2017	SeqNo: 2762534						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050

Sample ID: LCS-63749	SampType: LCS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 9/13/2017	RunNo: 117840						
Client ID: LCSW	Batch ID: 63749	TestNo: EPA 245.1		Analysis Date: 9/13/2017	SeqNo: 2762535						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.543 0.050 2.500 0 102 85 115

Sample ID: N025867-001C-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 9/13/2017	RunNo: 117840						
Client ID: ZZZZZ	Batch ID: 63749	TestNo: EPA 245.1		Analysis Date: 9/13/2017	SeqNo: 2762536						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.449 0.050 2.500 0 98.0 75 125

Sample ID: N025867-001C-MSD	SampType: MSD	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 9/13/2017	RunNo: 117840						
Client ID: ZZZZZ	Batch ID: 63749	TestNo: EPA 245.1		Analysis Date: 9/13/2017	SeqNo: 2762537						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.461 0.050 2.500 0 98.4 75 125 2.449 0.483 20

Sample ID: N025867-001C-DUP	SampType: DUP	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 9/13/2017	RunNo: 117840						
Client ID: ZZZZZ	Batch ID: 63749	TestNo: EPA 245.1		Analysis Date: 9/13/2017	SeqNo: 2762538						
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:

- | | | |
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CLIENT: CH2MHill
Work Order: N025867
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-63774	SampType: MBLK	TestCode: 8015_W_FP_ Units: ug/L	Prep Date: 9/14/2017	RunNo: 117871							
Client ID: PBW	Batch ID: 63774	TestNo: EPA 8015B EPA 3510C	Analysis Date: 9/14/2017	SeqNo: 2764607							
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)	16.059	25									J
Surr: Octacosane	79.283		80.00		99.1	26	152				
Surr: p-Terphenyl	78.975		80.00		98.7	57	132				

Qualifiers:

- | | | |
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CLIENT: CH2MHill
Work Order: N025867
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPTOT

Sample ID: MB-R117871	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date:	RunNo: 117871						
Client ID: PBW	Batch ID: R117871	TestNo: EPA 8015B		Analysis Date: 9/14/2017	SeqNo: 2764609						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	16.059	50									J

Qualifiers:

- | | | |
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CLIENT: CH2MHill
Work Order: N025867
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: E170913LCS	SampType: LCS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 117849						
Client ID: LCSW	Batch ID: E17VW087	TestNo: EPA 8015B	Analysis Date: 9/13/2017	SeqNo: 2763136							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1001.000	50	1000	0	100	67	136				
Surr: Chlorobenzene - d5	58572.000		50000		117	74	138				

Sample ID: E170913MB1	SampType: MBLK	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 117849						
Client ID: PBW	Batch ID: E17VW087	TestNo: EPA 8015B	Analysis Date: 9/13/2017	SeqNo: 2763137							
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	60962.000		50000		122	74	138				

Sample ID: N025853-001AMS	SampType: MS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 117849						
Client ID: ZZZZZ	Batch ID: E17VW087	TestNo: EPA 8015B	Analysis Date: 9/13/2017	SeqNo: 2763140							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1000.000	50	1000	0	100	67	136				
Surr: Chlorobenzene - d5	62088.000		50000		124	74	138				

Sample ID: N025853-001AMSD	SampType: MSD	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 117849						
Client ID: ZZZZZ	Batch ID: E17VW087	TestNo: EPA 8015B	Analysis Date: 9/13/2017	SeqNo: 2763141							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1024.000	50	1000	0	102	67	136	1000	2.37	30	
Surr: Chlorobenzene - d5	61963.000		50000		124	74	138		0	0	

Qualifiers:

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CLIENT: CH2MHill
Work Order: N025867
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170913LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850						
Client ID: LCSW	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	19.890	0.50	20.00	0	99.4	69	133				
1,2-Dichloroethane	17.760	0.50	20.00	0	88.8	69	132				
Benzene	19.890	1.0	20.00	0	99.4	81	122				
Ethylbenzene	20.270	1.0	20.00	0	101	73	127				
m,p-Xylene	41.400	1.0	40.00	0	104	76	128				
MTBE	16.610	1.0	20.00	0	83.0	65	123				
o-Xylene	20.320	1.0	20.00	0	102	80	121				
Tert-Butanol	71.030	5.0	100.0	0	71.0	70	130				
Toluene	19.840	2.0	20.00	0	99.2	77	122				
Xylenes, Total	61.720	2.0	60.00	0	103	75	125				
Surr: 1,2-Dichloroethane-d4	23.140		25.00		92.6	72	119				
Surr: 4-Bromofluorobenzene	25.580		25.00		102	76	119				
Surr: Dibromofluoromethane	25.210		25.00		101	85	115				
Surr: Toluene-d8	24.780		25.00		99.1	81	120				

Sample ID: P170913MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850						
Client ID: PBW	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763150						
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	23.000		25.00		92.0	72	119				

Qualifiers:

- | | | |
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CLIENT: CH2MHill
Work Order: N025867
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170913MB3		SampType: MBLK		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 117850			
Client ID: PBW		Batch ID: P17VW152		TestNo: EPA 8260B		Analysis Date: 9/13/2017		SeqNo: 2763150			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	24.800		25.00		99.2	76	119				
Surr: Dibromofluoromethane	24.320		25.00		97.3	85	115				
Surr: Toluene-d8	25.230		25.00		101	81	120				

Sample ID: N025867-001AMS		SampType: MS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 117850			
Client ID: ZZZZZ		Batch ID: P17VW152		TestNo: EPA 8260B		Analysis Date: 9/13/2017		SeqNo: 2763152			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	21.390	0.50	20.00	0	107	69	133				
1,2-Dichloroethane	18.700	0.50	20.00	0	93.5	69	132				
Benzene	21.510	1.0	20.00	0	108	81	122				
Ethylbenzene	21.640	1.0	20.00	0	108	73	127				
m,p-Xylene	43.980	1.0	40.00	0	110	76	128				
MTBE	17.680	1.0	20.00	0	88.4	65	123				
o-Xylene	21.530	1.0	20.00	0	108	80	121				
Tert-Butanol	70.450	5.0	100.0	0	70.4	70	130				
Toluene	21.260	2.0	20.00	0	106	77	122				
Xylenes, Total	65.510	2.0	60.00	0	109	75	125				
Surr: 1,2-Dichloroethane-d4	23.890		25.00		95.6	72	119				
Surr: 4-Bromofluorobenzene	25.020		25.00		100	76	119				
Surr: Dibromofluoromethane	26.010		25.00		104	85	115				
Surr: Toluene-d8	25.340		25.00		101	81	120				

Sample ID: N025867-001AMSD		SampType: MSD		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 117850			
Client ID: ZZZZZ		Batch ID: P17VW152		TestNo: EPA 8260B		Analysis Date: 9/13/2017		SeqNo: 2763153			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	21.500	0.50	20.00	0	108	69	133	21.39	0.513	20	
1,2-Dichloroethane	18.980	0.50	20.00	0	94.9	69	132	18.70	1.49	20	
Benzene	21.750	1.0	20.00	0	109	81	122	21.51	1.11	20	

Qualifiers:

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Work Order: N025867
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N025867-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850						
Client ID: ZZZZZ	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763153						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	21.170	1.0	20.00	0	106	73	127	21.64	2.20	20	
m,p-Xylene	39.220	1.0	40.00	0	98.0	76	128	43.98	11.4	20	
MTBE	17.370	1.0	20.00	0	86.9	65	123	17.68	1.77	20	
o-Xylene	20.870	1.0	20.00	0	104	80	121	21.53	3.11	20	
Tert-Butanol	72.130	5.0	100.0	0	72.1	70	130	70.45	2.36	20	
Toluene	21.560	2.0	20.00	0	108	77	122	21.26	1.40	20	
Xylenes, Total	60.090	2.0	60.00	0	100	75	125	65.51	8.63	20	
Surr: 1,2-Dichloroethane-d4	23.340		25.00		93.4	72	119		0		
Surr: 4-Bromofluorobenzene	24.910		25.00		99.6	76	119		0		
Surr: Dibromofluoromethane	25.660		25.00		103	85	115		0		
Surr: Toluene-d8	25.640		25.00		103	81	120		0		

Qualifiers:

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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: N025867
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID: LCS-63794	SampType: LCS	TestCode: 8270WATER_	Units: µg/L	Prep Date: 9/15/2017	RunNo: 118064						
Client ID: LCSW	Batch ID: 63794	TestNo: EPA 8270C EPA 3510C		Analysis Date: 9/22/2017	SeqNo: 2771782						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	4.470	1.0	6.000	0	74.5	24	120				
Surr: 1,2-Dichlorobenzene-d4	1.170		1.000		117	16	120				
Surr: Phenol-d5	0.460		1.000		46.0	15	120				

Sample ID: LCSD-63794	SampType: LCSD	TestCode: 8270WATER_	Units: µg/L	Prep Date: 9/15/2017	RunNo: 118064						
Client ID: LCSS02	Batch ID: 63794	TestNo: EPA 8270C EPA 3510C		Analysis Date: 9/22/2017	SeqNo: 2771783						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	3.570	1.0	6.000	0	59.5	24	120	4.470	22.4	20	R
Surr: 1,2-Dichlorobenzene-d4	1.010		1.000		101	16	120		0		
Surr: Phenol-d5	0.360		1.000		36.0	15	120		0		

Sample ID: MB-63794	SampType: MBLK	TestCode: 8270WATER_	Units: µg/L	Prep Date: 9/15/2017	RunNo: 118064						
Client ID: PBW	Batch ID: 63794	TestNo: EPA 8270C EPA 3510C		Analysis Date: 9/22/2017	SeqNo: 2771784						
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	1.050		1.000		105	16	120				
Surr: Phenol-d5	0.370		1.000		37.0	15	120				

Qualifiers:

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



ASSET LABORATORIES

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

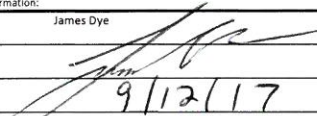
NEVADA | P: 702.307.2659 | F: 702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV009922
 ORELAP/NELAP Cert 4046

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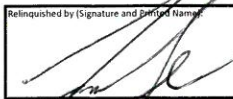
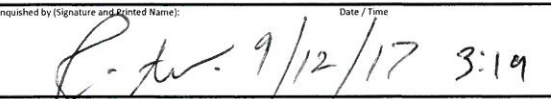
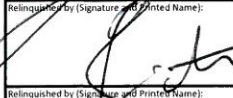
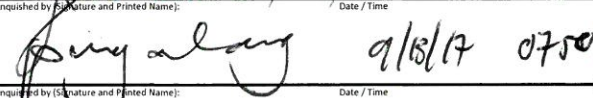
Asset Laboratories
 3151 W. Post Road
 Las Vegas, NV 89118
 Tel: 702-307-2659 Fax: 702-307-2691
 Marlon Cartin (marlon@assetlaboratories.com)

CHAIN OF CUSTODY RECORD

DATE: 9/12/17
 PAGE: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Section D Sampler Information:
Company: Kinder Morgan Energy Partners Attention: Steve Defibaugh	Report To: Eric Davis	Attention: Steve Defibaugh - Ref. AFE# 81195	Sampler Name: James Dye
Address: 1100 Town & Country Road Orange, CA 92868	Copy To: Steve Defibaugh	Company Name: Kinder Morgan Energy Partners	Sampler Signature: 
Email To: steve_defibaugh@kindermorgan.com eric_davis@rh2m.com	Purchase Order No.:	Address: 1100 Town & Country Road Orange, CA 92868	Sample Date: 9/12/17
Phone: 714-560-4802 Fax: 714-560-4801	Project Name: SFPP Norwalk	ATL Project Manager: Marlon Cartin	

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G=GRAB C=COMP)	SAMPLING		TOTAL # OF CONTAINERS	Analysis Test	CONTAINER TYPE					Comments	
					DATE	TIME			V	V	A	P	A		
1	EFF-09-12	EFFLUENT	WW	G	9/12/17	1415	11	BTEX, 1,1-DCA, 1,2-DCA, MTBE, TBA (8260B) TPH-gas (8015B) TPH-oil, TPH-total (8015B) Cu, Pb, Zn (200.8); Hg (245.1) Phenol (8270)	X	X	X	X	X	N025867 -01	Report metals, TPH and VOC preliminary data on 24-hr TAT
2															Report total Xylenes
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

Relinquished by (Signature and Printed Name):  Date / Time: 9/12/17 1430	Relinquished by (Signature and Printed Name):  Date / Time: 9/12/17 3:19	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: 9/12/17 3:35	Relinquished by (Signature and Printed Name):  Date / Time: 9/12/17 0750		
Relinquished by (Signature and Printed Name):	Relinquished by (Signature and Printed Name):		

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

2-9th
 1K#2

ASSET Laboratories

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

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

Cooler Received/Opened On: 9/12/2017 Workorder: N025867
 Rep sample Temp (Deg C): 2.9 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 9475 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 type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments: Sample for Metals received @ pH 7 and adjusted to pH < 2 with HNO3.

Checklist Completed By: YR 9/13/2017

Reviewed By: 9/13/2017

ASSET Laboratories

WORK ORDER Summary

12-Sep-17

WorkOrder: N025867

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 9/12/2017

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N025867-001A	EFF-09-12	9/12/2017 2:15:00 PM	9/13/2017	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			9/13/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N025867-001B			9/19/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/19/2017		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025867-001C			9/13/2017			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/13/2017		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/13/2017		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/13/2017			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025867-001D			9/13/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/13/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/13/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025867-002A	FOLDER	9/12/2017	9/13/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			9/13/2017		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 #: 537579475

CPS



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

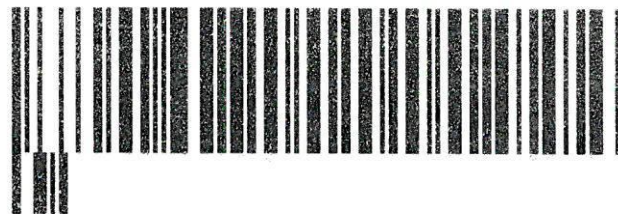
LVS
LAS VEGAS

A

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

C89102A

Delivery Instructions:
HOLD FOR PICK-UP
Signature Type: NOT REQUIRED



72122155

Print Date: 9/12/2017 4:34 PM

LABEL INSTRUCTIONS:

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

- Step 1: Use the "Send Label to Printer" 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.

2nd
1R42

Attachment B
Waste Manifests

Non-Hazardous Waste Manifest

Generator Name, Mailing Address, and Phone Number	SFPP, L.P. 15306 NORWALK BLVD NORWALK, CA 90650 714-560-4887	Transporter and Phone Number	CARBON ACTIVATED CORP. 250 EAST MANVILLE STREET COMPTON, CA 90220 (310) 885-4555
Generator Facility Address and Contact	SFPP, L.P. 15306 NORWALK BLVD NORWALK, CA 90650	<i>Designated Facility Name, Address, and Phone Number</i>	CARBON ACTIVATED CORP. 250 EAST MANVILLE STREET COMPTON, CA 90220 (310) 885-4555
		EPA ID Number	CAR000149104

Date Picked Up	7/13/2017	Truck No.		Tanker No.	
----------------	-----------	-----------	--	------------	--

Non Hazardous Spent Filter Media	Vessel # Removed	Gross Weight
VACUUM AND LOAD FILTER SYSTEM ACTIVATED CARBON COCONUT SHELL 12X30 MESH AW Out-of-state sale NON-Haz / Class 70		1 2,000

Addition Description for Materials Listed Above	Handeling Codes for Waste Listed Above:
---	---

Generator's Certification: I certify the materials described above on this manifest are not subject to Federal Regulations for reporting proper disposal of Hazardous Waste

Generator:	Print Name:	JAMES [Signature]
	Signature:	[Signature]
	Date:	7/13/17
Transporter Acknowledgment of Receipt of Materials	Print Name:	Ajith Peiris
	Signature:	[Signature]
	Date:	7/13/17

Discrepancy Indication Space:

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

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 010551427 FLE		
5. Generator's Name and Mailing Address 1100 Town And Country Road Orange, CA 92668				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 Buttonwillow LLC 2500 West Lokern Road Buttonwillow, CA 93206				U.S. EPA ID Number CAD980675276			
Facility's Phone: (661) 762-6200							
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)	2	DM	450	P	181	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. CH1424321 2X55 Truck 5459							
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/Offoror's Printed/Typed Name X JAMES DYIE				Signature X		Month Day Year 7/20/17	
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 Fernando Rios				Signature 		Month Day Year 7/20/17	
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. W13Z		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 7/20/17	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

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 010551427 FLE		
5. Generator's Name and Mailing Address Sipp, 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 Buttonwillow LLC 2500 West Lokem Road Buttonwillow, CA 93206				U.S. EPA ID Number CAD980675276			
Facility's Phone: (661) 762-6200							
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)	2	DM	450	P	181	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. CH1424321 2X55				CH1424321 - FILTERS Truck 5459			
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 DYIE		Signature 		Month Day Year 7 00 17			
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 Fernando Rios		Signature 		Month Day Year 7 20 17			
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. H132	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			

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

DW 1704927509

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAT080033962		Manifest Document No.	2. Page 1 1 of
3. Generator's Name and Mailing Address Sfpp, L.P. Norwalk Station 1100 Town And Country Road Attn: Karina Hankins Orange CA 92868				Site Address : 15306 Norwalk Boulevard Norwalk, CA 90651	
4. Generator's Phone ((714) 560-4887) ATTN: Karina Hankins					
5. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.		6. US EPA ID Number MAD03932250		A. State Transporter's ID	
				B. Transporter 1 Phone (781) 792-5000	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
9. Designated Facility Name and Site Address Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744		10. US EPA ID Number CAD044429835		E. State Facility's ID	
				F. Facility's Phone (310) 835-9998	
11. WASTE DESCRIPTION			Containers		13. Total Quantity
			No.	Type	14. Unit Wt./Vol.
a. NON HAZARDOUS, NON D.O.T. REGULATED, (SOIL)			1	DM	500 P
b. NON D.O.T. REGULATED, (PIPELINE FILTERS)			1	DM	200 P
c.					
d.					
G. Additional Descriptions for Materials Listed Above 11a.CH1418957 1x55 11b.CH1424321 1x55			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information SOIL FILTERS			EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Sfpp, L.P. Norwalk Station		
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name X JAMES DYK				Signature <i>[Signature]</i>	
				Date Month Day Year 10 9 17	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name George Hernandez				Signature <i>[Signature]</i>	
				Date Month Day Year 10 9 17	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Signature	
				Date Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.					
Printed/Typed Name Beatrice Falcon				Signature BA	
				Date Month Day Year 10 13 17	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

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 011241362 FLE		
5. Generator's Name and Mailing Address Sipp, L.P. Norwalk Station 1100 Town And Country Road Attn: Karina Hankins Orange, CA 92668 Generator's Phone: (714) 560-4867 ATTN: Karina Hankins				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 Danni Street Wilmington, CA 90744 Facility's Phone: (310) 835-9998				U.S. EPA ID Number CAD044429835			
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		300	P	181
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. CHL424321 1x55				FILTERS			
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/Offorer's Printed/Typed Name X JAMES DYK				Signature 		Month Day Year 10 9 17	
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 George Hernandez				Signature 		Month Day Year 10 9 17	
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)				Signature		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 Beatrice Falcon				Signature BF		Month Day Year 10 23 17	

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY