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<b><u>Report Title:</u></b>	Third Quarter 2020 Effluent Monitoring Report, July 1 to September 30, 2020
<b><u>Report Type:</u></b>	NPDES / WDR Reports
<b><u>Report Date:</u></b>	11/12/2020
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**SFPP, L.P.**

Operating Partnership

November 12, 2020

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

**Re: Effluent Monitoring Report**

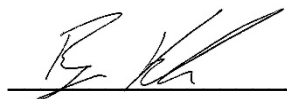
July through September 2020  
SFPP, L.P. Norwalk Pump Station  
15306 Norwalk Boulevard, Norwalk, California  
(NPDES No. CA0063509, CI No. 7497)

Attention: Information Technology Unit

In reference to the subject National Pollutant Discharge Elimination System (NPDES) permit, please find enclosed the Third Quarter 2020 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 12th day of November 2020.  
at 10:00 AM

 (signature)

Ryan Koch (printed name)

P.G. Specialist - Remediation (title)



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November 13, 2020

Attention: Mr. Ryan Koch  
Kinder Morgan, Inc.  
1001 Louisiana Street  
Houston, Texas 77002

**Subject: Effluent Monitoring Report, July 1 to September 30, 2020 (Third Quarter 2020)  
SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California  
(NPDES No. CA0063509, CI No. 7497, Order No. R4-2016-0309)**

Dear Mr. Koch,

This report summarizes National Pollutant Discharge Elimination System (NPDES) monitoring related to the discharge of treated groundwater from the Kinder Morgan, Inc. (Kinder Morgan) product recovery and groundwater extraction (GWE) system located at the SFPP, L.P. (SFPP) Norwalk Pump Station within the Defense Fuel Support Point Norwalk facility, at 15306 Norwalk Boulevard, Norwalk, California (the site; Figures 1 and 2).

This report describes NPDES monitoring activities during the period of July 1 to September 30, 2020. Kinder Morgan performed operation, maintenance, and monitoring tasks on the product recovery and GWE systems. This report has been prepared based on NPDES monitoring conducted by Kinder Morgan.

## **Remediation Systems**

Kinder Morgan operates remediation systems consisting of soil vapor extraction (SVE), total fluids extraction (TFE) of free product and/or groundwater using a top-loading pump, GWE using a bottom-loading pump, and treatment of extracted soil vapors and groundwater to address the south-central and southeastern areas of the site. Horizontal biosparging is also employed in the south-central and southeastern areas to enhance natural attenuation of hydrocarbon constituents, and will soon be implemented in the offsite/south-central area, as described below.

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

- a) South-central area (currently inactive)
  - 13 TFE wells
  - 24 onsite SVE wells (most collocated with TFE wells)
  - 1 horizontal biosparge well (BS-01)
- b) Offsite/south-central area
  - 7 TFE wells
  - 6 offsite SVE wells (5 collocated with TFE wells)
  - 1 horizontal biosparge well (BS-03; not yet operative)
  - 1 horizontal SVE well (HSVE-01; not yet operative)
- c) Southeastern area (24-inch block valve area)
  - 4 TFE wells (GM W-O-15, GMW-O-18, GMW-36, and GMW-SF-9)
  - 1 GWE well (GMW-SF-10)
  - 9 SVE wells (3 collocated with TFE wells)
  - 1 horizontal biosparge well (BS-02)

The remediation system well network is shown on Figure 2. A brief description of each system is provided in the sections that follow.

## Groundwater Treatment System

The groundwater treatment system (GWTS) handles free product and groundwater recovered from the south-central and southeastern parts of the site. Free product and groundwater recovered by pneumatically operated, top-loading total fluid pumps and bottom-loading groundwater pumps are piped to a dissolved air flotation oil-water separator (DAF/OWS). Free product, if any, from the DAF/OWS is collected in a storage tank and transported to an offsite location. Water from the OWS is gravity drained into a 300-gallon transfer tank. From the transfer tank, the water is then treated using liquid-phase granular activated carbon (LGAC). Treated water is routed through an onsite 3,000-gallon equalization tank. Two fluidized bed bioreactors installed downstream of the equalization tank treat fuel oxygenates such as tertiary butyl alcohol and methyl tertiary butyl ether. The treated groundwater then passes through polishing LGAC units prior to discharge to a storm drain that leads to Coyote Creek.

Discharge to Coyote Creek is performed in accordance with the NPDES permit (Permit Number [No.] CA0063509; Order No. R4-2016-0309), which was adopted on September 7, 2016, and became effective on November 1, 2016.

## Soil Vapor Extraction System

SVE is performed using a blower to remove soil vapors from the south-central and southeastern areas of the site. The extracted vapors are conveyed to a knock-out tank that separates entrained moisture from the soil vapor. Accumulated moisture in the knock-out tank is treated by the main

GWTS described above. The soil vapors are then treated in a regenerative thermal oxidizer where volatile organic compounds (VOCs) are converted to carbon dioxide and water prior to being discharged to the atmosphere. Operation of the GWTS and SVE systems is conducted in accordance with Permits to Operate (Permit Nos. G46188 A/N 578779 and G46187 A/N 578777, respectively; ID 110835) issued by the South Coast Air Quality Management District.

The south-central SVE system remains offline as part of the natural source zone depletion (NSZD) pilot study. In May 2020, Kinder Morgan implemented an NSZD performance monitoring pilot study in the south-central and southeastern areas of the site, as described in the NSZD Work Plan (Jacobs, 2019), and approved by the California Regional Water Quality Control Board, Los Angeles Region (Water Board) in a letter dated April 8, 2020 (Water Board, 2020). The expanded southeastern SVE system was restarted on May 15, 2020; the well network includes wells VEW-3, VEW-4, PZ-5, GMW-O-16, GMW-O-19, and MW-8; and TFE/SVE wells GMW-O-15, GMW-O-18, and GMW-36. These wells connect to the regenerative thermal oxidizer via a new, dedicated 1,200-foot-long, 6-inch high-density polyethylene (HDPE) header. The expanded southeastern SVE system is currently operating at a combined flow of 200 standard cubic feet per minute (scfm), under a vacuum pressure of 50 inches of water. In addition, there are four SVE wells currently operating in the offsite/south-central area, including GMW-O-11, GMW-O-12, GMW-O-20, and GMW-O-23.

A new horizontal SVE well (HSVE-01) was installed in the offsite/south-central area in December 2019 and is designed to extract vapors created from operating the new horizontal biosparge well BS-03 (described in the following section). Horizontal SVE well HSVE-01 is constructed of 6-inch-diameter Schedule 10 stainless-steel casing and screen and was completed to a depth of approximately 20 feet below ground surface (bgs). The length of the HSVE-01 screen is 500 feet, and the total length of the well is 745 feet. A construction completion report documenting construction activities and specifications was submitted to the Water Board in June 2020 (Jacobs, 2020). HSVE-01 is currently inoperative, and is expected to be turned on in early-2021 after it is connected to the treatment system.

## Horizontal Biosparge System

Biosparging involves introducing air into the groundwater in situ to enhance biodegradation of VOCs present in product and groundwater. Horizontal biosparge wells are installed in three locations at the site as described below.

**South-Central Area.** In December 2014, Kinder Morgan completed installation of a horizontal biosparge system in the south-central area of the site, which consists of a horizontal biosparge well (BS-01) and a 500-scfm compressor. To reduce the potential for off-gassing of VOCs while biosparging, the SVE system has an interlock that will not allow the biosparge to operate without the SVE system running. 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 bgs. The lateral distance of the screen interval is 600 feet centered 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* (CH2M, 2015).

**Southeastern Area.** A second horizontal biosparge well (BS-02) was installed in the southeastern area of the site in November 2017. The design of the second biosparge well is similar to BS-01, the south-central biosparge well, consisting of 4-inch-diameter Schedule 80 PVC casing and screen completed to a vertical depth of approximately 45 feet bgs. The lateral distance of the screen interval is 240 feet centered below the southeastern area hydrocarbon plume. A construction completion report documenting construction activities and specifications was submitted on July 12, 2018 (Jacobs, 2018). The 500-scfm sparge compressor was turned off temporarily and a new air sparge compressor (883 scfm) was installed in the fourth quarter 2018 to deliver ambient air to both the south-central and southeastern sparge wells. The 500-scfm and 883-scfm compressors are appropriately sized to deliver ambient air to both the south-central and southeastern sparge wells, and to allow for future system expansion.

**Offsite/South-Central Area.** A new horizontal biosparge well (BS-03) was installed in the offsite/south-central area in December 2019. The biosparge well is constructed of 4-inch-diameter Schedule 80 PVC casing and screen, and completed to a depth of approximately 45 feet bgs. The length of the BS-03 well screen is 500 feet and the total length of the well is 770 feet. BS-03 is centered below the offsite/south-central area hydrocarbon plume. A construction completion report documenting construction activities and specifications was submitted to the Water Board in June 2020 (Jacobs, 2020).

BS-01 currently remains offline as part of the NSZD pilot study. BS-02 was turned on in May 2020 and is currently operating at a flow of 180 scfm. BS-03 is currently inoperative and is expected to be turned on in early-2021 after it is connected to the treatment system.

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

## Summary of Quarterly Groundwater Treatment System Operations

A total of 181,728 gallons of groundwater was extracted from the offsite/south-central area and southeastern area, treated, and discharged to Coyote Creek during the third quarter 2020. Wells that were in operation included GMW-O-11, GMW-O-20, and GMW-O-21 in the offsite/south-central area, and GMW-O-15 and GMW-36 in the southeastern area. Table 1 summarizes the average daily flow rate during the reporting period. The GWTS operated during part of the quarter, due to the following activities:

- The GWTS operated in recirculation mode from April 1 to May 14, 2020. The GWTS operated briefly on April 1, 16, and 17, 2020, for maintenance.
- On August 5, 2020, the GWTS shut down due to a high-level alarm in the equalization tank. On August 11, 2020, the system was restarted after Bioreactor Pump A was replaced.
- On August 18, 2020, the GWTS was shut down for quarterly groundwater monitoring on August 20, 2020. The GWTS system was restarted on September 15, 2020. The extended downtime was due to clogged influent water lines and restricted flow. The restricted influent flow was resolved through extensive flushing, cleaning, and maintenance. The GWTS discharged a combined total of 512 gallons of treated water during this time for maintenance.



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- On September 17, 2020, the GWTS shut down due to an electrical fault associated with the bioreactor control panel. The system operated intermittently from September 19 to 23, 2020. The system was restarted on September 24, 2020.

No free product accumulated in the product holding tank of the GWTS during the third quarter of 2020. 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 2020, effluent water samples were collected pursuant to the Waste Discharge Requirements under Order No. R4-2016-0309. Samples were collected at the Order-designated monitoring point EFF-001 (Remediation System Effluent) for monthly and quarterly analyses.

## **Summary of Compliance Results**

### **Monthly and Quarterly Sampling**

Effluent daily flow rates are presented in Table 1. All daily flows were below the permit maximum discharge limit of 150,000 gallons per day. Analytical results for the July, August, and September 2020 effluent sampling events are summarized in Table 2. The effluent samples (EFF-001) were collected after the secondary polishing LGAC vessel, prior to discharge into the storm drain at the site. The results were compared with the maximum daily and average monthly discharge limits under Order No. R4-2016-0309. As shown in Table 2, all discharge limits for the treatment system effluent were met during the reporting period. Laboratory analytical reports and chain-of-custody documents are included in Attachment A. The mass emission (in pounds per day) is calculated by multiplying the daily effluent flow measured during the day of the sampling event (in million gallons per day) by the concentration of the analyte (milligrams per liter) and the conversion factor of 8.34, as required by the discharge permit. If the analyte was not detected in the sample, the concentration used is half of the method detection limit. Table 2 summarizes laboratory analytical results. A data quality assurance/quality control evaluation conducted by Jacobs is included in Attachment B.

Under NPDES Order No. R4-2016-0306, a wet weather condition is present when the maximum daily flow in Coyote Creek is equal to or greater than 156 cubic feet per second (cfs) as measured at the Los Angeles County Department of Public Works flow gauge station F354-R, located at the bottom of the creek just above the Long Beach Water Reclamation Plant. The daily flow rate in Coyote Creek, which is based on data from the Los Angeles County Department of Public Works flow gauge station F354-R, is presented in Table 3. Based on these data, the third quarter 2020 sampling events (with maximum daily flows of 151 cfs) occurred during dry weather conditions, and are therefore compared to the dry weather discharge limits.

### **Waste Handling**

On July 17, 2020, approximately 1,500 gallons of hazardous waste, flammable liquids, and n.o.s. (well redevelopment water classified as gasoline) were removed from the site by Patriot Environmental Services of 508 East E Street, Unit A, Wilmington, California 90744. The waste was transported to World Oil Recycling, at 2000 North Alameda Street, Compton, California 90222.

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A copy of the waste manifest is included in Attachment C.

## Harbor Toxics Total Maximum Daily Load Monitoring

Water and sediment chemistry monitoring and sampling for toxic pollutants in the Dominguez Channel and the Greater Los Angeles and Long Beach Harbor Waters total maximum daily load (TMDL) (also referred to as the Harbor Toxics TMDL) was conducted on March 13, 2020 (wet weather event). A second water chemistry (wet weather event) was conducted on April 7, 2020. A third water chemistry sampling event (dry weather) was completed on September 30, 2020. The Harbor Toxics TMDL summary for 2020 will be included in the fourth quarter 2020 NPDES report.

## References

California Regional Water Quality Control Board, Los Angeles Region (Water Board). 2020. *Comments on the Biosparging Effectiveness Evaluation and Recommendations, South-Central Area (Report), 15306 Norwalk Boulevard, Norwalk (SLIC No. 0286A, DOD No. 16638)*. April 8.

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

Jacobs Engineering Group Inc. (Jacobs). 2018. *Southeastern Horizontal Biosparge Well (BS-02) Completion Report, SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California*. July 12.

Jacobs Engineering Group Inc. (Jacobs). 2019. *Natural Source Zone Depletion Work Plan, SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California*. July 2.

Jacobs Engineering Group Inc. (Jacobs). 2020. *Offsite South-Central Horizontal Biosparge and Soil Vapor Extraction Well Installation Completion Report, SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California*. June 26.

Should you require any further information, please contact Nils Orliczky/Jacobs at (949) 224-7959.

Yours sincerely



Nils Orliczky  
Environmental Engineer





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Attachments:

Table 1 – Effluent Flow Rate Measurements, Third Quarter 2020

Table 2 – NPDES Effluent Monitoring, Third Quarter 2020

Table 3 – Maximum Daily Flow in Coyote Creek, Third Quarter 2020

Figure 1 – Site Location Map

Figure 2 – Remediation System Layout

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

Attachment B – Data Quality Assurance/Quality Control

Attachment C – Waste Manifest

## Tables

**Table 1. Effluent Flow Rate Measurements, Third Quarter 2020***SFPP Norwalk Pump Station, Norwalk, California*

Date	Daily Flow Rate (gpd) (Maximum Daily Discharge Limit = 150,000 gpd <sup>f</sup> )
07/01/20	5,232
07/02/20	5,360
07/03/20	4,876
07/04/20	4,272
07/05/20	3,748
07/06/20	3,852
07/07/20	3,976
07/08/20	3,440
07/09/20	3,592
07/10/20	3,408
07/11/20	3,484
07/12/20	3,428
07/13/20	3,420
07/14/20	3,316
07/15/20	3,588
07/16/20	3,972
07/17/20	4,588
07/18/20	4,944
07/19/20	5,596
07/20/20	4,224
07/21/20	2,740
07/22/20	476
07/23/20	4,476
07/24/20	3,568
07/25/20	3,988
07/26/20	3,896
07/27/20	3,860
07/28/20	3,528
07/29/20	3,936
07/30/20	3,804
07/31/20	3,584
08/01/20	3,584
08/02/20	3,744
08/03/20	3,548
08/04/20	3,520
08/05/20	372
08/06/20	0
08/07/20	0
08/08/20	0
08/09/20	0
08/10/20	0
08/11/20	112
08/12/20	4,472
08/13/20	1,648
08/14/20	1,636
08/15/20	1,896
08/16/20	1,688

**Table 1. Effluent Flow Rate Measurements, Third Quarter 2020***SFPP Norwalk Pump Station, Norwalk, California*

Date	Daily Flow Rate (gpd) (Maximum Daily Discharge Limit = 150,000 gpd <sup>a</sup> )
08/17/20	1,564
08/18/20	1,680
08/19/20	0
08/20/20	248
08/21/20	56
08/22/20	0
08/23/20	0
08/24/20	0
08/25/20	0
08/26/20	52
08/27/20	0
08/28/20	0
08/29/20	0
08/30/20	0
08/31/20	0
09/01/20	108
09/02/20	48
09/03/20	0
09/04/20	0
09/05/20	0
09/06/20	0
09/07/20	0
09/08/20	0
09/09/20	0
09/10/20	0
09/11/20	0
09/12/20	0
09/13/20	0
09/14/20	0
09/15/20	328
09/16/20	3,880
09/17/20	1,288
09/18/20	0
09/19/20	328
09/20/20	28
09/21/20	0
09/22/20	2,456
09/23/20	40
09/24/20	5,532
09/25/20	1,004
09/26/20	4,448
09/27/20	3,876
09/28/20	3,788
09/29/20	3,904
09/30/20	680

Notes:

<sup>a</sup> California Regional Water Quality Control Board Waste Discharge Requirements.

gpd = gallons per day

**Table 2. NPDES Effluent Monitoring, Third Quarter 2020**

SFPP Norwalk Pump Station, Norwalk, California

Analyte	Sampling Frequency	Analytical Method	Units	MDL <sup>a</sup>	RL <sup>a</sup>	ML <sup>b</sup>	7/23/2020	8/14/2020	9/29/2020	Discharge Limits <sup>c</sup>	
										Monthly Average	Daily Maximum
Flow	Daily	--	gpd	--	--	--	4,476	1,636	3,904	--	150,000
TPH as Gasoline (C4-C12)	Monthly	EPA 8015B	µg/L	21	50	NE	<42 <sup>d</sup>	<49 <sup>d</sup>	<41 <sup>d</sup>	--	--
TPH as Diesel (C13-C22)	Monthly	EPA 8015B	µg/L	15	25	NE	<15	<15	<15	--	--
TPH as Oil (C23+)	Monthly	EPA 8015B	µg/L	14	25	NE	<22 <sup>d</sup>	<40	<18 <sup>d</sup>	--	--
Total TPH	Monthly	EPA 8015B	µg/L	21	100	NE	<64 <sup>d</sup>	<89 <sup>d</sup>	<59 <sup>d</sup>	--	100
Total TPH	Monthly	Calculated	lb/day	--	--	--	0.001195	0.000607	0.000961	--	0.13
Benzene	Monthly	EPA 8260B	µg/L	0.11	1.0	2.0	<0.11	<0.11	<0.11	--	--
1,1-Dichloroethane	Monthly	EPA 8260B	µg/L	0.22	0.5	1.0	<0.22	<0.22	<0.22	--	--
1,2-Dichloroethane	Monthly	EPA 8260B	µg/L	0.16	0.5	2.0	<0.16	<0.16	<0.16	--	--
Ethylbenzene	Monthly	EPA 8260B	µg/L	0.11	1.0	2.0	<0.11	<0.11	<0.11	--	--
Phenol	Monthly	EPA 8270C	µg/L	0.33	1	1	<0.33	<0.33	<0.33	--	--
Toluene	Monthly	EPA 8260B	µg/L	0.13	2.0	2.0	<0.13	<0.13	<0.13	--	--
Methyl Tertiary Butyl Ether	Monthly	EPA 8260B	µg/L	0.44	1.0	NE	<0.44	<0.44	<0.44	--	--
Tertiary Butyl Alcohol	Monthly	EPA 8260B	µg/L	2.8	5.0	NE	<2.8	<2.8	<2.8	--	--
Total Xylenes	Monthly	EPA 8260B	µg/L	1.5	2.0	NE	<1.5	<1.5	<1.5	--	--
Copper (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.26	0.5	0.5	<0.26	<0.26	0.49 J	9.7	32
Copper (total recoverable) (dry weather)	Monthly	Calculated	lb/day	0.26	0.5	--	0.000005	0.000002	0.000016	0.012	0.04
Copper (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.26	0.5	0.5	<0.26	<0.26	0.49 J	8.3	27
Copper (total recoverable) (wet weather)	Monthly	Calculated	lb/day	0.26	0.5	--	0.000005	0.000002	0.000016	0.010	0.034
Lead (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.13	0.5	0.5	<0.13	<0.13	<0.13	33	106
Lead (total recoverable) (wet weather)	Monthly	Calculated	lb/day	0.13	0.5	--	0.000002	0.000001	0.000002	0.041	0.13
Mercury (total recoverable)	Monthly	EPA 245.1	µg/L	0.018	0.05	0.2	<0.018	<0.018	<0.018	0.051	0.10
Mercury (total recoverable)	Monthly	Calculated	lb/day	0.018	0.05	--	0	0	0	0.000064	0.00013
Zinc (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.27	1.0	1.0	3.8	3.5	1.1	64	220
Zinc (total recoverable) (dry weather)	Monthly	Calculated	lb/day	0.27	1	1.0	0.000142	0.000048	0.000036	0.080	0.28
Zinc (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.27	1.0	1.0	3.8	3.5	1.1	46	158
Zinc (total recoverable) (wet weather)	Monthly	Calculated	lb/day	0.27	1	--	0.000142	0.000048	0.000036	0.058	0.2
Biochemical Oxygen Demand	Quarterly	SM 5210B	mg/L	1.5	1.5	NE	--	--	<1.5	20	30
Biochemical Oxygen Demand	Quarterly	Calculated	lb/day	--	--	--	--	--	0.02442	25	38
Total Suspended Solids	Quarterly	SM 2540D	mg/L	5.0	5.0	NE	--	<5	--	50	75
Total Suspended Solids	Quarterly	Calculated	lb/day	--	--	--	--	0.034111	--	63	94
pH	Quarterly	Field Measurement	s.u.	0.1	0.1	NE	--	6.77	--	--	6.5/8.5
Oil and Grease	Quarterly	EPA 1664A	mg/L	0.61	4.1	NE	--	0.62 J	--	10	15
Oil and Grease	Quarterly	Calculated	lb/day	0.61	4.1	--	--	0.008459	--	13	19
Ammonia Nitrogen (as N)	Quarterly	EPA 350.1	mg/L	0.067	0.2	NE	--	--	0.096 J	--	--
Settleable Solids	Quarterly	SM 2540F	mL/L/hr	0.1	0.1	NE	--	<0.1	--	0.1	0.3
Temperature	Quarterly	Temperature	°F	0.1	0.1	NE	--	78.3	--	--	86
Turbidity	Quarterly	SM 2130B	NTU	0.1	0.1	NE	--	<0.1	--	50	75
Salinity	2x/year	Field Measurement	ppt	--	--	NE	--	--	--	--	--
Chronic Toxicity	2x/year	--	--	--	--	NE	--	--	--	Pass	Pass and % Effect <50

**Table 2. NPDES Effluent Monitoring, Third Quarter 2020**

*SFPP Norwalk Pump Station, Norwalk, California*

Analyte	Sampling Frequency	Analytical Method	Units	MDL <sup>a</sup>	RL <sup>a</sup>	ML <sup>b</sup>	7/23/2020	8/14/2020	9/29/2020	Discharge Limits <sup>c</sup>	
										Monthly Average	Daily Maximum
Di-isopropyl Ether	Annually	EPA 8260B	µg/L	--	--	NE	--	--	--	--	--
Methyl Ethyl Ketone	Annually	EPA 8260B	µg/L	--	--	NE	--	--	--	--	--
Methylene Blue Active Substances	Annually	SM 5540C	mg/L	--	--	NE	--	--	--	--	--
Nitrate + Nitrite as N	Annually	EPA 300.0	mg/L	--	--	NE	--	--	--	--	--
Sulfides	Annually	SM 4500 SD	mg/L	--	--	NE	--	--	--	--	--
Tert Amyl Methyl Ether	Annually	EPA 8260B	µg/L	--	--	NE	--	--	--	--	--
TCDD Equivalents	Annually	EPA 8290	pg/L	--	--	NE	--	--	--	--	--
Other Priority Pollutants	Annually	--	--	--	--	--	--	--	--	--	--

Notes:

<sup>a</sup> The highest MDL and RL during this reporting period are shown.

<sup>b</sup> 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.

<sup>c</sup> California Regional Water Quality Control Board Waste Discharge Requirements (WDRs) under Order No. R4-2016-0309.

<sup>d</sup> TPH data were qualified as nondetect due to associated blank contamination.

-- = not measured or not analyzed

< = not detected above the MDL

° F = degrees Fahrenheit

µg/L = micrograms per liter

DNQ = detected, but not quantified; result is greater than or equal to the laboratory MDL but less than the ML (or RL if no ML is listed)

EPA = U.S. Environmental Protection Agency

gpd = gallons per day

GWTS = groundwater treatment system

J = detected at a concentration below the RL and above the MDL; reported value is estimated

lb/day = pounds per day

MDL = laboratory method detection limit

mg/L = milligrams per liter

ML = minimum level (see note b)

mL/L/hr = milliliters per liter per hour

NE = not established

NPDES = National Pollutant Discharge Elimination System

NS = not sampled. GWTS was down since November 11, 2019. On May 15, 2020, the GWTS was restarted after the baseline NSZD sampling and semiannual groundwater monitoring event were completed.

NSZD = natural source zone depletion

NTU = nephelometric turbidity unit(s)

pg/L = picograms per liter

ppt = parts per thousand

RL = laboratory reporting limit

s.u. = standard unit(s)

TCDD = tetrachlorodibenzodioxin

TPH = total petroleum hydrocarbons

**Table 3. Maximum Daily Flow in Coyote Creek, Third Quarter 2020***SFPP Norwalk Pump Station, Norwalk, California*

Date	Maximum Daily Flow Rate (cfs) <sup>a</sup>	Comments
07/01/20	90.2	
07/02/20	44.8	
07/03/20	26.5	
07/04/20	29.3	
07/05/20	16.5	
07/06/20	46.4	
07/07/20	32.3	
07/08/20	90.2	
07/09/20	106	
07/10/20	114	
07/11/20	90.2	
07/12/20	81.4	
07/13/20	109	
07/14/20	148	
07/15/20	151	
07/16/20	90.2	
07/17/20	127	
07/18/20	122	
07/19/20	111	
07/20/20	92.9	
07/21/20	115	
07/22/20	73.8	
07/23/20	90.2	Monthly effluent sample
07/24/20	71.2	
07/25/20	76.3	
07/26/20	76.3	
07/27/20	32.3	
07/28/20	64.3	
07/29/20	64.3	
07/30/20	64.3	
07/31/20	8.35	
08/01/20	6.01	
08/02/20	4.48	
08/03/20	9.02	
08/04/20	13.0	
08/05/20	19.1	
08/06/20	7.72	
08/07/20	10.4	
08/08/20	7.12	
08/09/20	16.5	
08/10/20	7.12	
08/11/20	7.12	
08/12/20	6.55	
08/13/20	6.01	
08/14/20	7.72	Quarterly effluent sample
08/15/20	6.01	
08/16/20	6.55	
08/17/20	6.55	
08/18/20	7.72	
08/19/20	7.72	
08/20/20	8.35	

**Table 3. Maximum Daily Flow in Coyote Creek, Third Quarter 2020***SFPP Norwalk Pump Station, Norwalk, California*

<b>Date</b>	<b>Maximum Daily Flow Rate (cfs)<sup>a</sup></b>	<b>Comments</b>
08/21/20	3.86	
08/22/20	3.28	
08/23/20	3.01	
08/24/20	5.15	
08/25/20	6.01	
08/26/20	9.71	
08/27/20	3.86	
08/28/20	3.01	
08/29/20	3.28	
08/30/20	3.28	
08/31/20	3.56	
09/01/20	3.86	
09/02/20	3.28	
09/03/20	3.56	
09/04/20	4.81	
09/05/20	3.28	
09/06/20	3.86	
09/07/20	3.01	
09/08/20	4.48	
09/09/20	4.81	
09/10/20	3.28	
09/11/20	3.28	
09/12/20	2.50	
09/13/20	2.75	
09/14/20	2.50	
09/15/20	3.01	
09/16/20	2.50	
09/17/20	3.28	
09/18/20	2.75	
09/19/20	3.01	
09/20/20	3.01	
09/21/20	2.75	
09/22/20	2.50	
09/23/20	3.01	
09/24/20	3.01	
09/25/20	3.01	
09/26/20	2.25	
09/27/20	2.50	
09/28/20	10.4	
09/29/20	10.4	Monthly effluent sample
09/30/20	15.3	

Notes:

<sup>a</sup> A wet weather event is any day when the maximum daily flow of Coyote Creek is greater than or equal to 156 cfs.

A dry weather event is any day when the maximum daily flow of Coyote Creek is less than 156 cfs.

cfs = cubic feet per second



## Figures

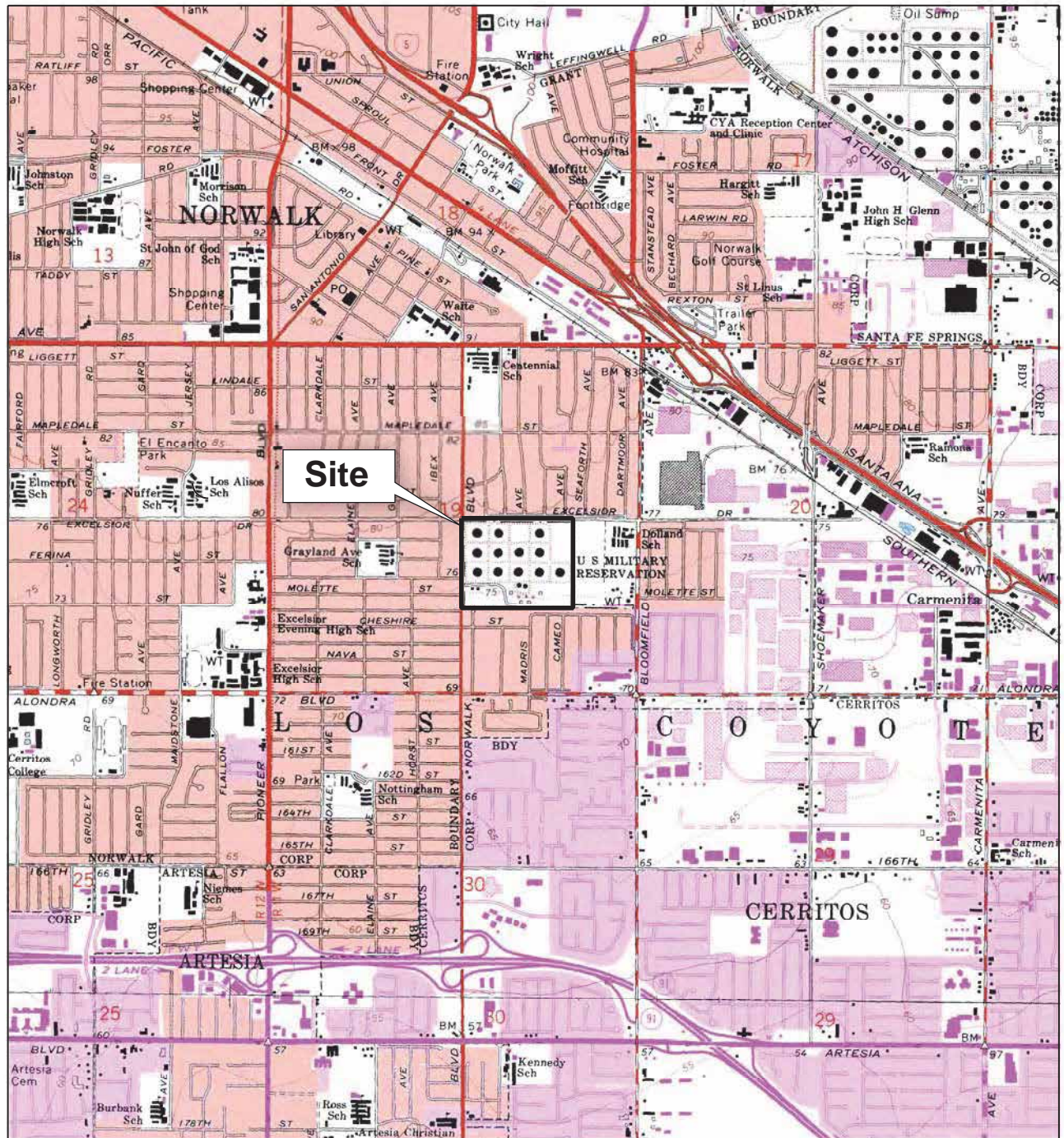
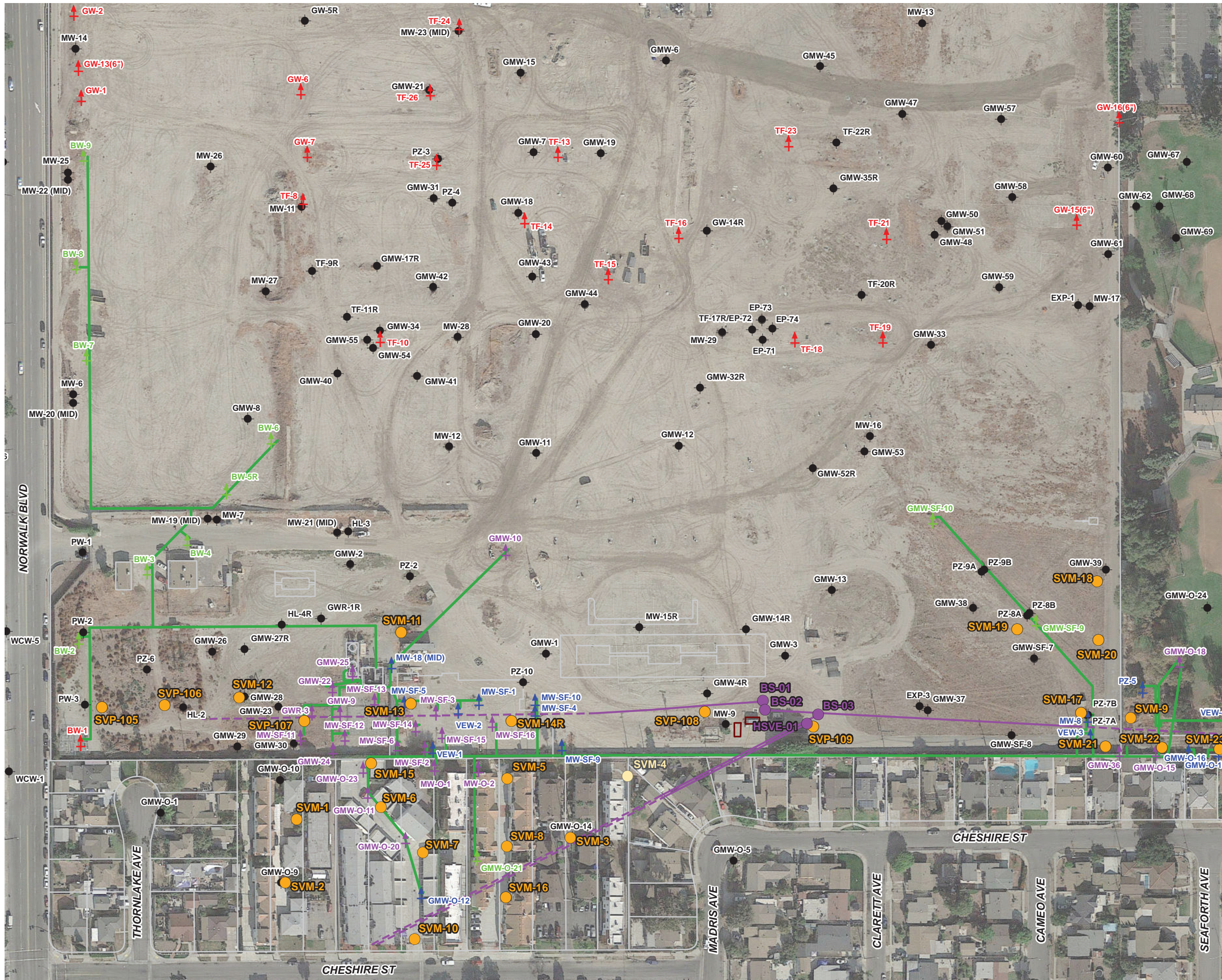


Figure 1. Site Location Map  
 SFPP Norwalk Pump Station  
 Norwalk, California

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

**Jacobs**





- LEGEND**
- Soil Vapor Probe/Soil Vapor Monitoring Probe
  - Destroyed Soil Vapor Probe/Soil Vapor Monitoring Probe
  - Horizontal Biosparge Well Entry Point
  - Existing Groundwater Monitoring Well
  - ⊕ Existing Remediation Well
  - ⊕ Kinder Morgan Combined Soil Vapor and Total Fluids Extraction Wells
  - ⊕ Kinder Morgan Soil Vapor Extraction Wells
  - ⊕ Kinder Morgan Total Fluids and/or Groundwater Extraction Wells
  - Kinder Morgan Remediation Piping Layout (Above Ground and Below Ground)
  - Horizontal Biosparge Well (Dashed Line Depicts Approximate Lateral Extent of Well Screen)
  - Air Compressor System

Imagery Source:  
Google Earth December 3, 2017.

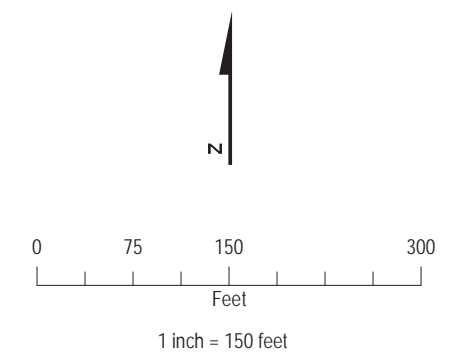


Figure 2. Remediation System Layout  
SFPP Norwalk Pump Station  
Norwalk, California



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

July 31, 2020

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

TEL:

FAX:

Workorder No.: N041547

RE: SFPP Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on July 23, 2020 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,



Nancy Sibucan  
Laboratory Director

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**CLIENT:** CH2MHill  
**Project:** SFPP Norwalk  
**Lab Order:** N041547

---

**CASE NARRATIVE**

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**SAMPLE RECEIVING/GENERAL COMMENTS:**

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

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

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

Samples were analyzed within method holding time.

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



**CLIENT:** CH2MHill  
**Project:** SFPP Norwalk  
**Lab Order:** N041547  
**Contract No:**

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N041547-001A	EFF-07-23	Wastewater	7/23/2020 11:50:00 AM	7/23/2020	7/31/2020
N041547-001B	EFF-07-23	Wastewater	7/23/2020 11:50:00 AM	7/23/2020	7/31/2020
N041547-001C	EFF-07-23	Wastewater	7/23/2020 11:50:00 AM	7/23/2020	7/31/2020
N041547-001D	EFF-07-23	Wastewater	7/23/2020 11:50:00 AM	7/23/2020	7/31/2020
N041547-001E	EFF-07-23	Wastewater	7/23/2020 11:50:00 AM	7/23/2020	7/31/2020



**ASSET Laboratories**

**ANALYTICAL RESULTS**

Print Date: 31-Jul-20

**CLIENT:** CH2MHill  
**Lab Order:** N041547  
**Project:** SFPP Norwalk  
**Lab ID:** N041547-001

**Client Sample ID:** EFF-07-23  
**Collection Date:** 7/23/2020 11:50:00 AM  
**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: <b>NV00922-MS9_200730A</b>	QC Batch: <b>80369</b>			PrepDate: <b>7/30/2020</b>		Analyst: <b>PL</b>
Phenol	ND	0.33	1.0	µg/L	1	7/30/2020 07:11 PM
Surr: Phenol-d5	28.0	0	25-108	%REC	1	7/30/2020 07:11 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: <b>CA01638-MS10_200730A</b>	QC Batch: <b>CA20VW100</b>			PrepDate:		Analyst: <b>AG</b>
1,1-Dichloroethane	ND	0.22	0.50	ug/L	1	7/30/2020 12:58 PM
1,2-Dichloroethane	ND	0.16	0.50	ug/L	1	7/30/2020 12:58 PM
Benzene	ND	0.11	1.0	ug/L	1	7/30/2020 12:58 PM
Ethylbenzene	ND	0.11	1.0	ug/L	1	7/30/2020 12:58 PM
m,p-Xylene	ND	0.23	1.0	ug/L	1	7/30/2020 12:58 PM
MTBE	ND	0.44	1.0	ug/L	1	7/30/2020 12:58 PM
o-Xylene	ND	0.087	1.0	ug/L	1	7/30/2020 12:58 PM
Tert-Butanol	ND	2.8	5.0	ug/L	1	7/30/2020 12:58 PM
Toluene	ND	0.13	2.0	ug/L	1	7/30/2020 12:58 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	7/30/2020 12:58 PM
Surr: 1,2-Dichloroethane-d4	112	0	72-119	%REC	1	7/30/2020 12:58 PM
Surr: 4-Bromofluorobenzene	95.8	0	76-119	%REC	1	7/30/2020 12:58 PM
Surr: Dibromofluoromethane	100	0	85-115	%REC	1	7/30/2020 12:58 PM
Surr: Toluene-d8	99.0	0	81-120	%REC	1	7/30/2020 12:58 PM

**TPH EXTRACTABLE BY GC/FID**

**EPA 3510C**

**EPA 8015B**

RunID: <b>NV00922-GC1_200729A</b>	QC Batch: <b>80356</b>			PrepDate: <b>7/29/2020</b>		Analyst: <b>PL</b>
TPH-Diesel (C13-C22)	ND	15	25	ug/L	1	7/29/2020 07:35 PM
TPH-Oil (C23-C36)	22	14	25	J ug/L	1	7/29/2020 07:35 PM
Surr: Octacosane	82.0	0	26-152	%REC	1	7/29/2020 07:35 PM
Surr: p-Terphenyl	78.3	0	57-132	%REC	1	7/29/2020 07:35 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B**

RunID: <b>NV00922-GC4_200730B</b>	QC Batch: <b>E20VW069</b>			PrepDate:		Analyst: <b>BH</b>
TPH-Gasoline (C4-C12)	42	21	50	J ug/L	1	7/30/2020 04:18 PM
Surr: Chlorobenzene - d5	84.0	0	74-138	%REC	1	7/30/2020 04:18 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 Results are wet unless otherwise specified

E Value above quantitation range  
 J Analyte detected below quantitation limits  
 S Spike/Surrogate outside of limits due to matrix interference  
 DO Surrogate Diluted Out



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**ASSET Laboratories**

**ANALYTICAL RESULTS**

Print Date: 31-Jul-20

**CLIENT:** CH2MHill  
**Lab Order:** N041547  
**Project:** SFPP Norwalk  
**Lab ID:** N041547-001

**Client Sample ID:** EFF-07-23  
**Collection Date:** 7/23/2020 11:50:00 AM  
**Matrix:** WASTEWATER

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

**EPA 245.1**

RunID: <b>NV00922-AA2_200730A</b>	QC Batch: <b>80353</b>			PrepDate: <b>7/29/2020</b>		Analyst: <b>DJ</b>
Mercury	ND	0.018	0.050	µg/L	1	7/30/2020 11:55 AM

**TOTAL METALS BY ICPMS**

**EPA 200.8**

RunID: <b>NV00922-ICP8_200730A</b>	QC Batch: <b>80354</b>			PrepDate: <b>7/29/2020</b>		Analyst: <b>CEI</b>
Copper	ND	0.26	0.50	µg/L	1	7/30/2020 12:15 PM
Lead	ND	0.13	0.50	µg/L	1	7/30/2020 12:15 PM
Zinc	3.8	0.27	1.0	µg/L	1	7/30/2020 12:15 PM

**TOTAL TPH**

**EPA 8015B**

RunID: <b>NV00922-GC1_200729A</b>	QC Batch: <b>R146202</b>			PrepDate:		Analyst: <b>PL</b>
Total TPH	64	21	100	J ug/L	1	7/30/2020

<b>Qualifiers:</b>	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: N041547  
 Project: SFPP Norwalk

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 200.8\_W\_SFPP

Sample ID: <b>MB-80354</b>	SampType: <b>MBLK</b>	TestCode: <b>200.8_W_SFPP</b>	Units: <b>µg/L</b>	Prep Date: <b>7/29/2020</b>	RunNo: <b>146219</b>						
Client ID: <b>PBW</b>	Batch ID: <b>80354</b>	TestNo: <b>EPA 200.8</b>		Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873521</b>						
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: <b>LCS-80354</b>	SampType: <b>LCS</b>	TestCode: <b>200.8_W_SFPP</b>	Units: <b>µg/L</b>	Prep Date: <b>7/29/2020</b>	RunNo: <b>146219</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>80354</b>	TestNo: <b>EPA 200.8</b>		Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873522</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	10.061	0.50	10.00	0	101	85	115				
Lead	10.237	0.50	10.00	0	102	85	115				
Zinc	9.867	1.0	10.00	0	98.7	85	115				

Sample ID: <b>N041547-001D-DUP</b>	SampType: <b>DUP</b>	TestCode: <b>200.8_W_SFPP</b>	Units: <b>µg/L</b>	Prep Date: <b>7/29/2020</b>	RunNo: <b>146219</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>80354</b>	TestNo: <b>EPA 200.8</b>		Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873525</b>						
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	4.169	1.0						3.806	9.10	20	

Sample ID: <b>N041547-001D-MS</b>	SampType: <b>MS</b>	TestCode: <b>200.8_W_SFPP</b>	Units: <b>µg/L</b>	Prep Date: <b>7/29/2020</b>	RunNo: <b>146219</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>80354</b>	TestNo: <b>EPA 200.8</b>		Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873527</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	8.863	0.50	10.00	0	88.6	75	125				
Lead	10.478	0.50	10.00	0	105	75	125				
Zinc	13.077	1.0	10.00	3.806	92.7	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:** N041547  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 200.8\_W\_SFPP**

Sample ID: <b>N041547-001D-MSD</b>		SampType: <b>MSD</b>		TestCode: <b>200.8_W_SFPP</b> Units: <b>µg/L</b>			Prep Date: <b>7/29/2020</b>		RunNo: <b>146219</b>		
Client ID: <b>ZZZZZZ</b>		Batch ID: <b>80354</b>		TestNo: <b>EPA 200.8</b>			Analysis Date: <b>7/30/2020</b>		SeqNo: <b>3873528</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	8.802	0.50	10.00	0	88.0	75	125	8.863	0.695	20	
Lead	10.450	0.50	10.00	0	104	75	125	10.48	0.271	20	
Zinc	12.827	1.0	10.00	3.806	90.2	75	125	13.08	1.93	20	

**Qualifiers:**

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



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**CLIENT:** CH2MHill  
**Work Order:** N041547  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 245.1\_W\_LL**

Sample ID: <b>MB-80353</b>	SampType: <b>MBLK</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>7/29/2020</b>	RunNo: <b>146217</b>						
Client ID: <b>PBW</b>	Batch ID: <b>80353</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873537</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050

Sample ID: <b>LCS-80353</b>	SampType: <b>LCS</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>7/29/2020</b>	RunNo: <b>146217</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>80353</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873538</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.540 0.050 2.500 0 102 85 115

Sample ID: <b>N041547-001D-DUP</b>	SampType: <b>DUP</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>7/29/2020</b>	RunNo: <b>146217</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>80353</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873541</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050 0 0 20

Sample ID: <b>N041547-001D-MS</b>	SampType: <b>MS</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>7/29/2020</b>	RunNo: <b>146217</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>80353</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873543</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.110 0.050 2.500 0 84.4 75 125

Sample ID: <b>N041547-001D-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>7/29/2020</b>	RunNo: <b>146217</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>80353</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873544</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.130 0.050 2.500 0 85.2 75 125 2.110 0.943 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:** N041547  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_FP\_SFPP**

Sample ID: <b>MB-80356</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_FP_</b>	Units: <b>ug/L</b>	Prep Date: <b>7/29/2020</b>	RunNo: <b>146202</b>						
Client ID: <b>PBW</b>	Batch ID: <b>80356</b>	TestNo: <b>EPA 8015B EPA 3510C</b>		Analysis Date: <b>7/29/2020</b>	SeqNo: <b>3872897</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	24.857	25									J
Surr: Octacosane	67.627		80.00		84.5	26	152				
Surr: p-Terphenyl	64.604		80.00		80.8	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                 |



**CALIFORNIA** | P: 562.219.7435 F: 562.219.7436  
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 EPA ID CA01638

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 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

**CLIENT:** CH2MHill  
**Work Order:** N041547  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_SFPPTOT**

Sample ID: <b>MB-R146202</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_SFP</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146202</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R146202</b>	TestNo: <b>EPA 8015B</b>		Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3874688</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	65.857	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                 |



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**CLIENT:** CH2MHill  
**Work Order:** N041547  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015GAS\_WSFP**

Sample ID: <b>E200730LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8015GAS_WS</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146233</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>E20VW069</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873814</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	935.000	50	1000	0	93.5	67	136				
Surr: Chlorobenzene - d5	44542.000		50000		89.1	74	138				

Sample ID: <b>E200730MB</b>	SampType: <b>MBLK</b>	TestCode: <b>8015GAS_WS</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146233</b>						
Client ID: <b>PBW</b>	Batch ID: <b>E20VW069</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873815</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	41.000	50									J
Surr: Chlorobenzene - d5	47611.000		50000		95.2	74	138				

Sample ID: <b>N041547-001BMS</b>	SampType: <b>MS</b>	TestCode: <b>8015GAS_WS</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146233</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E20VW069</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873817</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	950.000	50	1000	42.00	90.8	67	136				
Surr: Chlorobenzene - d5	43911.000		50000		87.8	74	138				

Sample ID: <b>N041547-001BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015GAS_WS</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146233</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E20VW069</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873818</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	932.000	50	1000	42.00	89.0	67	136	950.0	1.91	30	
Surr: Chlorobenzene - d5	42745.000		50000		85.5	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:** N041547  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_SFPP**

Sample ID: <b>CA200730-LCS</b>		SampType: <b>LCS</b>		TestCode: <b>8260_WP_SF</b>		Units: <b>ug/L</b>		Prep Date:		RunNo: <b>146240</b>	
Client ID: <b>LCSW</b>		Batch ID: <b>CA20VW100</b>		TestNo: <b>EPA 8260B</b>		Analysis Date: <b>7/30/2020</b>				SeqNo: <b>3874019</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	21.840	0.50	20.00	0	109	69	133				
1,2-Dichloroethane	21.720	0.50	20.00	0	109	69	132				
Benzene	18.710	1.0	20.00	0	93.6	81	122				
Ethylbenzene	19.830	1.0	20.00	0	99.2	73	127				
m,p-Xylene	40.820	1.0	40.00	0	102	76	128				
MTBE	18.160	1.0	20.00	0	90.8	65	123				
o-Xylene	19.160	1.0	20.00	0	95.8	80	121				
Tert-Butanol	96.040	5.0	100.0	0	96.0	70	130				
Toluene	20.110	2.0	20.00	0	101	77	122				
Xylenes, Total	59.980	2.0	60.00	0	100	75	125				
Surr: 1,2-Dichloroethane-d4	27.470		25.00		110	72	119				
Surr: 4-Bromofluorobenzene	25.090		25.00		100	76	119				
Surr: Dibromofluoromethane	24.090		25.00		96.4	85	115				
Surr: Toluene-d8	26.570		25.00		106	81	120				

Sample ID: <b>CA200730-MB2</b>		SampType: <b>MBLK</b>		TestCode: <b>8260_WP_SF</b>		Units: <b>ug/L</b>		Prep Date:		RunNo: <b>146240</b>	
Client ID: <b>PBW</b>		Batch ID: <b>CA20VW100</b>		TestNo: <b>EPA 8260B</b>		Analysis Date: <b>7/30/2020</b>				SeqNo: <b>3874020</b>	
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	27.220		25.00		109	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:** N041547  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_SFPP**

Sample ID: <b>CA200730-MB2</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_SF</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146240</b>						
Client ID: <b>PBW</b>	Batch ID: <b>CA20VW100</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3874020</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	23.500		25.00		94.0	76	119				
Surr: Dibromofluoromethane	24.780		25.00		99.1	85	115				
Surr: Toluene-d8	26.600		25.00		106	81	120				

Sample ID: <b>N041547-001A-DUP</b>	SampType: <b>DUP</b>	TestCode: <b>8260_WP_SF</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146240</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>CA20VW100</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3874022</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	ND	0.50						0	0	20	
1,2-Dichloroethane	ND	0.50						0	0	20	
Benzene	ND	1.0						0	0	20	
Ethylbenzene	ND	1.0						0	0	20	
m,p-Xylene	ND	1.0						0	0	20	
MTBE	ND	1.0						0	0	20	
o-Xylene	ND	1.0						0	0	20	
Tert-Butanol	ND	5.0						0	0	20	
Toluene	ND	2.0						0	0	20	
Xylenes, Total	ND	2.0						0	0	20	
Surr: 1,2-Dichloroethane-d4	24.430		25.00		97.7	72	119		0		
Surr: 4-Bromofluorobenzene	22.990		25.00		92.0	76	119		0		
Surr: Dibromofluoromethane	21.630		25.00		86.5	85	115		0		
Surr: Toluene-d8	25.240		25.00		101	81	120		0		

Sample ID: <b>N041547-001A-MS</b>	SampType: <b>MS</b>	TestCode: <b>8260_WP_SF</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146240</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>CA20VW100</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3874023</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	20.100	0.50	20.00	0	101	69	133				
1,2-Dichloroethane	24.440	0.50	20.00	0	122	69	132				
Benzene	18.060	1.0	20.00	0	90.3	81	122				

**Qualifiers:**

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

CLIENT: CH2MHill  
 Work Order: N041547  
 Project: SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_WP\_SFPP

Sample ID: N041547-001A-MS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 146240						
Client ID: ZZZZZZ	Batch ID: CA20VW100	TestNo: EPA 8260B		Analysis Date: 7/30/2020	SeqNo: 3874023						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	20.570	1.0	20.00	0	103	73	127				
m,p-Xylene	43.570	1.0	40.00	0	109	76	128				
MTBE	18.960	1.0	20.00	0	94.8	65	123				
o-Xylene	19.960	1.0	20.00	0	99.8	80	121				
Tert-Butanol	113.900	5.0	100.0	0	114	70	130				
Toluene	19.780	2.0	20.00	0	98.9	77	122				
Xylenes, Total	63.530	2.0	60.00	0	106	75	125				
Surr: 1,2-Dichloroethane-d4	27.470		25.00		110	72	119				
Surr: 4-Bromofluorobenzene	26.590		25.00		106	76	119				
Surr: Dibromofluoromethane	22.860		25.00		91.4	85	115				
Surr: Toluene-d8	26.460		25.00		106	81	120				

Sample ID: N041547-001A-MSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 146240						
Client ID: ZZZZZZ	Batch ID: CA20VW100	TestNo: EPA 8260B		Analysis Date: 7/30/2020	SeqNo: 3874024						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	18.890	0.50	20.00	0	94.4	69	133	20.10	6.21	20	
1,2-Dichloroethane	21.900	0.50	20.00	0	110	69	132	24.44	11.0	20	
Benzene	18.800	1.0	20.00	0	94.0	81	122	18.06	4.02	20	
Ethylbenzene	18.790	1.0	20.00	0	94.0	73	127	20.57	9.04	20	
m,p-Xylene	40.040	1.0	40.00	0	100	76	128	43.57	8.44	20	
MTBE	17.440	1.0	20.00	0	87.2	65	123	18.96	8.35	20	
o-Xylene	18.950	1.0	20.00	0	94.8	80	121	19.96	5.19	20	
Tert-Butanol	94.420	5.0	100.0	0	94.4	70	130	113.9	18.7	20	
Toluene	19.030	2.0	20.00	0	95.2	77	122	19.78	3.86	20	
Xylenes, Total	58.990	2.0	60.00	0	98.3	75	125	63.53	7.41	20	
Surr: 1,2-Dichloroethane-d4	26.970		25.00		108	72	119		0		
Surr: 4-Bromofluorobenzene	24.850		25.00		99.4	76	119		0		
Surr: Dibromofluoromethane	21.870		25.00		87.5	85	115		0		
Surr: Toluene-d8	25.360		25.00		101	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:** N041547  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270WATER\_SIMEXT**

Sample ID: <b>LCS-80369</b>	SampType: <b>LCS</b>	TestCode: <b>8270WATER_</b> Units: <b>µg/L</b>	Prep Date: <b>7/30/2020</b>	RunNo: <b>146231</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>80369</b>	TestNo: <b>EPA 8270C EPA 3510C</b>	Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873938</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	1.780	1.0	6.000	0	29.7	24	120				
Surr: Phenol-d5	0.330		1.000		33.0	25	108				

Sample ID: <b>LCSD-80369</b>	SampType: <b>LCSD</b>	TestCode: <b>8270WATER_</b> Units: <b>µg/L</b>	Prep Date: <b>7/30/2020</b>	RunNo: <b>146231</b>							
Client ID: <b>LCSS02</b>	Batch ID: <b>80369</b>	TestNo: <b>EPA 8270C EPA 3510C</b>	Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873939</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	1.810	1.0	6.000	0	30.2	24	120	1.780	1.67	20	
Surr: Phenol-d5	0.330		1.000		33.0	25	108		0		

Sample ID: <b>MB-80369</b>	SampType: <b>MBLK</b>	TestCode: <b>8270WATER_</b> Units: <b>µg/L</b>	Prep Date: <b>7/30/2020</b>	RunNo: <b>146231</b>							
Client ID: <b>PBW</b>	Batch ID: <b>80369</b>	TestNo: <b>EPA 8270C EPA 3510C</b>	Analysis Date: <b>7/30/2020</b>	SeqNo: <b>3873940</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	1.0									
Surr: Phenol-d5	0.280		1.000		28.0	25	108				

**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)

CH2HI03 C: 7/27/2020 12:00 AM  
 FOLDER R: 7/23/2020  
 N041547-002A 1 of 1



3.6°C IR#1

CHAIN OF CUSTODY RECORD  
 DATE: 7/23/20  
 PAGE: 1 of 1

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Invoice Information:</b>		<b>Section D</b> Sampler Information:	
Company: Kinder Morgan Energy Partners Attention: Ryan Koch		Report To: Eric Davis		Attention: Ryan Koch - Ref. AFE# 81195		Sampler Name: James Dye	
Address: 1001 Louisiana St., Houston, TX 77002		Copy To: Ryan Koch		Company Name: Kinder Morgan Energy Partners		Sampler Name: <i>[Signature]</i>	
Email To: Ryan_Koch@kindermorgan.com eric.davis@jacobs.com; nls.orlcrky@jacobs.com		Purchase Order No.:		Address: 1001 Louisiana St., Houston, TX 77002		Sampler Signature: <i>[Signature]</i>	
Phone 713-420-6730 Fax 714-560-4801		Project Name: SFPP Norwalk		ATL Project Manager: Marlon Cartin		Sample Date: 7/23/20	

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (S=GRAB O=COMP)	CONTAINER TYPE			ANALYSIS TEST					TOTAL # OF CONTAINERS	DATE	TIME	COMMENTS
					# OF CONTAINERS	PRESERVATIVE	VOLUME (mL)	BTEX, 1,1-DCM, 1,2-DCM, MTBE, TBA (E2008)	V	V	A	P				
1	EFF-07-03	EFFLUENT	W	G				40	40	1000	500	1000	12	7/23/20	1150	X X X X X N041547-01 Report metals, TPH and VOC preliminary data on 24-hr TAT Report total Xylenes

Requisitioned by (Signature and Printed Name): <i>[Signature]</i> Date / Time: 7/23/20 1300	Requisitioned by (Signature and Printed Name): <i>[Signature]</i> A. DASILVA Date / Time: 7/23/20 1545	Turn Around Time (TAT): <input type="checkbox"/> A = Same Day <input type="checkbox"/> B = 24 Hours <input type="checkbox"/> C = 48 Hours <input type="checkbox"/> D = 72 Hours <input 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: HOLD UNTIL INSTRUCTED BY JACOBS TO SAMPLE
Requisitioned by (Signature and Printed Name): <i>[Signature]</i> A. DASILVA Date / Time: 7/23/20 1558	Requisitioned by (Signature and Printed Name): <i>[Signature]</i> EMIL R Date / Time: 7/23/20 1558	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
Requisitioned by (Signature and Printed Name): <i>[Signature]</i> EMIL R Date / Time: 7/23/20 1800	Requisitioned by (Signature and Printed Name): <i>[Signature]</i> Belkys Hernandez Date / Time: 7/24/20 0840	Matrix: W = Water WW = Wastewater O = Oil P = Product S = Soil Others/Specify:	

*Handwritten notes:*  
 KAS depts  
 4.8/1.6°C IR#2  
 GSO# 3097/3098

# 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: 7/23/2020 Workorder: N041547  
 Rep sample Temp (Deg C): 3.6 IR Gun ID: 1  
 Temp Blank:  Yes  No  
 Carrier name: ASSET  
 Last 4 digits of Tracking No.: NA Packing Material Used: None  
 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?<br>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?<br>Was Client notified?                 | Yes <input type="checkbox"/><br>Yes <input type="checkbox"/> | No <input type="checkbox"/><br>No <input type="checkbox"/> | NA <input checked="" type="checkbox"/><br>NA <input checked="" type="checkbox"/> |

Comments: Received at Las Vegas Lab on 7/24/20 (GSO#3097/3098) at 4.8°C/1.6°C, IR#2.

Checklist Completed By: EAR  7/28/20

Reviewed By:  7/30/2020

## Sample Control

---

**From:** Marlon Cartin <marlon@assetlaboratories.com>  
**Sent:** Wednesday, July 29, 2020 9:11 AM  
**To:** 'Orliczky, Nils/SCO'  
**Cc:** 'Hill, Danny/SDO'; emilangelo@assetlaboratories.com; 'Davis, Eric/LAC'; 'Koch, Ryan'; James\_Dye@kindermorgan.com; 'Sample Control'; 'Yoandra Rodriguez'  
**Subject:** RE: [EXTERNAL] Re: SFPP Norwalk (Asset Labs No. N041545)  
**Attachments:** N041547.pdf

**Flag Status:** Flagged

Will do Nils.

SamCon – Please off-hold N041547.

Thanks,

### Marlon Cartin

Sr. Project Manager

California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | **P:** 562.219.7435 | **F:** 562.219.7436

Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | **P:** 702.307.2659 Ext. 410 | **F:** 702.307.2691 | **M:** 702.439.0421

[www.assetlaboratories.com](http://www.assetlaboratories.com)

---

**From:** Orliczky, Nils/SCO <[Nils.Orliczky@jacobs.com](mailto:Nils.Orliczky@jacobs.com)>  
**Sent:** Tuesday, July 28, 2020 9:03 PM  
**To:** 'Marlon Cartin' <[marlon@assetlaboratories.com](mailto:marlon@assetlaboratories.com)>  
**Cc:** Hill, Danny/SDO <[Danny.Hill@jacobs.com](mailto:Danny.Hill@jacobs.com)>; emilangelo@assetlaboratories.com; Davis, Eric/LAC <[Eric.Davis@jacobs.com](mailto:Eric.Davis@jacobs.com)>; Koch, Ryan <[ryan\\_koch@kindermorgan.com](mailto:ryan_koch@kindermorgan.com)>; [James\\_Dye@kindermorgan.com](mailto:James_Dye@kindermorgan.com)  
**Subject:** RE: [EXTERNAL] Re: SFPP Norwalk (Asset Labs No. N041545)

Marlon, the midpoints were within our permit. Please run EFF-0723 attached COC

Thanks,

**Nils Orliczky** | **Jacobs** | Environmental Engineer | Global Environmental Solutions | 562.882.9676 mobile |

[nils.orliczky@jacobs.com](mailto:nils.orliczky@jacobs.com) | [www.jacobs.com](http://www.jacobs.com)

---

**From:** Reports LV <[reports.lv@assetlaboratories.com](mailto:reports.lv@assetlaboratories.com)>  
**Sent:** Tuesday, July 28, 2020 8:38 PM  
**To:** Davis, Eric/LAC <[Eric.Davis@jacobs.com](mailto:Eric.Davis@jacobs.com)>; Koch, Ryan <[ryan\\_koch@kindermorgan.com](mailto:ryan_koch@kindermorgan.com)>; [James\\_Dye@kindermorgan.com](mailto:James_Dye@kindermorgan.com)  
**Cc:** Anderson, Padrick/BAO <[Padrick.Anderson@jacobs.com](mailto:Padrick.Anderson@jacobs.com)>; Pataray, Benny/SLC <[Benny.Pataray@jacobs.com](mailto:Benny.Pataray@jacobs.com)>; Orliczky, Nils/SCO <[Nils.Orliczky@jacobs.com](mailto:Nils.Orliczky@jacobs.com)>; Van Antwerp, Alan <[Alan\\_Vanantwerp@kindermorgan.com](mailto:Alan_Vanantwerp@kindermorgan.com)>; Hill, Danny/SDO <[Danny.Hill@jacobs.com](mailto:Danny.Hill@jacobs.com)>; 'Marlon Cartin' <[marlon@assetlaboratories.com](mailto:marlon@assetlaboratories.com)>; [emilangelo@assetlaboratories.com](mailto:emilangelo@assetlaboratories.com)  
**Subject:** [EXTERNAL] Re: SFPP Norwalk (Asset Labs No. N041545)

Enclosed is the final report for the above project.

# ASSET Laboratories

## WORK ORDER Summary

29-Jul-20

**WorkOrder:** N041547

**Client ID:** CH2HI03

**Project:** SFPP Norwalk

**QC Level:** RTNE

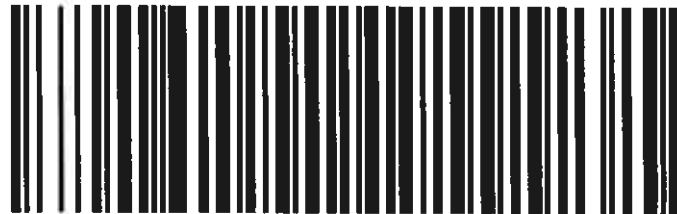
**Date Received:** 7/23/2020

**Comments:**

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041547-001A	EFF-07-03	7/23/2020 11:50:00 AM	7/30/2020	Wastewater	EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	V-CA
N041547-001B			7/30/2020		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N041547-001C			7/30/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/30/2020		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/30/2020		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N041547-001D			7/30/2020			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/30/2020		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/30/2020		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/30/2020			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N041547-001E			8/4/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/4/2020		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N041547-002A	FOLDER	7/30/2020	7/30/2020		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			7/30/2020		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

4.8°C  
IL#2800-322-5555  
www.gls-us.com**Ship From**ASSET LABORATORIES  
THAD MALIT  
11110 ARTESIA BLVD. SUITE B  
CERRITOS, CA 90703**Tracking #: 549823097****CPS****Ship To**ASSET LABORATORIES  
MARLON CARTIN  
3151 W. POST RD.,  
LAS VEGAS, NV 89118**LAS VEGAS****COD: \$0.00****Weight: 0 lb(s)****Reference:****Delivery Instructions:**

HOLD FOR PICK UP

**Signature Type: STANDARD****C89102A**

24135688

**LVS NV891-A 1**

Print Date: 7/23/2020 5:22 PM

Package 1 of 2

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

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

Step 2: Fold this page in half.

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

**TERMS AND CONDITIONS:**By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) 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.gls-us.com](http://www.gls-us.com).





116°C  
IR #2

800-322-5555  
www.gls-us.com

**Ship From**

ASSET LABORATORIES  
THAD MALIT  
11110 ARTESIA BLVD. SUITE B  
CERRITOS, CA 90703

Tracking #: 549823098

CPS



**Ship To**

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

**LAS VEGAS**

**C89102A**

COD: \$0.00

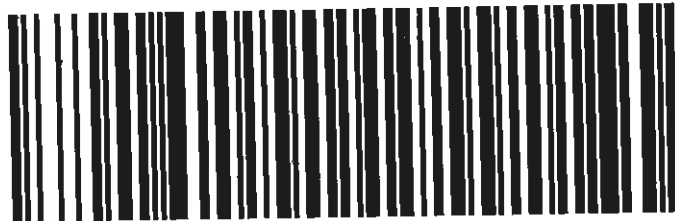
Weight: 0 lb(s)

Reference:

**Delivery Instructions:**

HOLD FOR PICK UP

Signature Type: STANDARD



24135689

**LVS NV891-A 1**

Print Date: 7/23/2020 5:22 PM

Package 2 of 2

**LABEL INSTRUCTIONS:**

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

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

Step 2: Fold this page in half.

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

**TERMS AND CONDITIONS:**

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) 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.gls-us.com](http://www.gls-us.com).

August 31, 2020

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

TEL:

FAX:

Workorder No.: N041853

RE: SFFP Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on August 14, 2020 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,



Nancy Sibucan  
Laboratory Director

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



**ASSET LABORATORIES**  
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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ELAP Cert 2921  
EPA ID CA01638

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

**CLIENT:** CH2MHill  
**Project:** SFFP Norwalk  
**Lab Order:** N041853

**CASE NARRATIVE**

**SAMPLE RECEIVING/GENERAL COMMENTS:**

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

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

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

Samples were analyzed within method holding time.

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

BOD and Ammonia was subcontracted to Michelson.

**Analytical comments for EPA 8260B:**

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for Tert-Butanol possibly due to non-homogeneity of sample; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



**CLIENT:** CH2MHill  
**Project:** SFFP Norwalk  
**Lab Order:** N041853  
**Contract No:**

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N041853-001A	EFF-08-14	Wastewater	8/14/2020 11:00:00 AM	8/14/2020	8/31/2020
N041853-001B	EFF-08-14	Wastewater	8/14/2020 11:00:00 AM	8/14/2020	8/31/2020
N041853-001C	EFF-08-14	Wastewater	8/14/2020 11:00:00 AM	8/14/2020	8/31/2020
N041853-001D	EFF-08-14	Wastewater	8/14/2020 11:00:00 AM	8/14/2020	8/31/2020
N041853-001E	EFF-08-14	Wastewater	8/14/2020 11:00:00 AM	8/14/2020	8/31/2020
N041853-001F	EFF-08-14	Wastewater	8/14/2020 11:00:00 AM	8/14/2020	8/31/2020
N041853-001G	EFF-08-14	Wastewater	8/14/2020 11:00:00 AM	8/14/2020	8/31/2020
N041853-001H	EFF-08-14	Wastewater	8/14/2020 11:00:00 AM	8/14/2020	8/31/2020
N041853-001I	EFF-08-14	Wastewater	8/14/2020 11:00:00 AM	8/14/2020	8/31/2020
N041853-001J	EFF-08-14	Wastewater	8/14/2020 11:00:00 AM	8/14/2020	8/31/2020



**ASSET Laboratories**

**ANALYTICAL RESULTS**

Print Date: 31-Aug-20

<b>CLIENT:</b> CH2MHill	<b>Client Sample ID:</b> EFF-08-14
<b>Lab Order:</b> N041853	<b>Collection Date:</b> 8/14/2020 11:00:00 AM
<b>Project:</b> SFFP Norwalk	<b>Matrix:</b> WASTEWATER
<b>Lab ID:</b> N041853-001	

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

**SM2540D**

RunID: CA01638-WC01_200817A	QC Batch: 82003	PrepDate: 8/17/2020	Analyst: AG
Suspended Solids (Residue, Non-Filterable)	ND 5.0	5.0	mg/L
			1 8/17/2020 09:00 AM

**SETTLABLE MATTER**

**SM2540F**

RunID: CA01638-WC01_200815A	QC Batch: 82004	PrepDate: 8/15/2020	Analyst: AG
Settleable Matter	ND 0.10	0.10	ml/L
			1 8/15/2020 02:35 PM

**TURBIDITY**

**SM 2130B**

RunID: NV00922-WC_200815B	QC Batch: R146691	PrepDate:	Analyst: LR
Turbidity	ND 0.10	0.10	NTU
			1 8/15/2020 02:05 PM

**HEXANE EXTRACTABLE MATERIAL (HEM)**

**EPA 1664 \_HEM REV B**

RunID: NV00922-WC_200815A	QC Batch: 81710	PrepDate: 8/15/2020	Analyst: LR
Oil & Grease	0.62 0.61	4.1	J mg/L
			1 8/15/2020 11:25 AM

**SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 3510C**

**EPA 8270C**

RunID: NV00922-MS9_200829A	QC Batch: 81818	PrepDate: 8/20/2020	Analyst: PL
Phenol	ND 0.33	1.0	µg/L
Surr: Phenol-d5	27.0 0	25-108	%REC
			1 8/29/2020 09:23 PM
			1 8/29/2020 09:23 PM

**1,4-DIOXANE BY GCMS-SIM ISOTOPE DILUTION TECHNIQUE**

**EPA 3510C**

**EPA 8270C(M)**

RunID: NV00922-MS9_200829B	QC Batch: 81819	PrepDate: 8/20/2020	Analyst: PL
1,4-Dioxane	0.17 0.11	1.0	J µg/L
Surr: 1,2-Dichlorobenzene-d4	88.6 0	24-101	%REC
			1 8/29/2020 07:11 PM
			1 8/29/2020 07:11 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: CA01638-MS10_200814B	QC Batch: CA20VW106	PrepDate:	Analyst: AW
1,1-Dichloroethane	ND 0.22	0.50	ug/L
1,2-Dichloroethane	ND 0.16	0.50	ug/L
Benzene	ND 0.11	1.0	ug/L
Ethylbenzene	ND 0.11	1.0	ug/L
			1 8/14/2020 02:13 PM
			1 8/14/2020 02:13 PM
			1 8/14/2020 02:13 PM
			1 8/14/2020 02:13 PM

<b>Qualifiers:</b>	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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3151 W. Post Rd., Las Vegas, NV 89118  
ELAP Cert 2676 | NV Cert NV00922  
ORELAP/NELAP Cert 4046

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**ANALYTICAL RESULTS**

Print Date: 31-Aug-20

**CLIENT:** CH2MHill  
**Lab Order:** N041853  
**Project:** SFFP Norwalk  
**Lab ID:** N041853-001

**Client Sample ID:** EFF-08-14  
**Collection Date:** 8/14/2020 11:00:00 AM  
**Matrix:** WASTEWATER

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

**EPA 8260B**

RunID:	CA01638-MS10_200814B	QC Batch:	CA20VW106	PrepDate:	Analyst:	AW
m,p-Xylene	ND	0.23	1.0	ug/L	1	8/14/2020 02:13 PM
MTBE	ND	0.44	1.0	ug/L	1	8/14/2020 02:13 PM
o-Xylene	ND	0.087	1.0	ug/L	1	8/14/2020 02:13 PM
Tert-Butanol	ND	2.8	5.0	ug/L	1	8/14/2020 02:13 PM
Toluene	ND	0.13	2.0	ug/L	1	8/14/2020 02:13 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	8/14/2020 02:13 PM
Surr: 1,2-Dichloroethane-d4	89.0	0	72-119	%REC	1	8/14/2020 02:13 PM
Surr: 4-Bromofluorobenzene	94.0	0	76-119	%REC	1	8/14/2020 02:13 PM
Surr: Dibromofluoromethane	95.5	0	85-115	%REC	1	8/14/2020 02:13 PM
Surr: Toluene-d8	97.2	0	81-120	%REC	1	8/14/2020 02:13 PM

**TPH EXTRACTABLE BY GC/FID**

**EPA 3510C**

**EPA 8015B**

RunID:	NV00922-GC1_200820B	QC Batch:	81820	PrepDate:	8/20/2020	Analyst:	PL
TPH-Diesel (C13-C22)	ND	15	25	ug/L	1	8/20/2020 10:40 PM	
TPH-Oil (C23-C36)	40	14	25	ug/L	1	8/20/2020 10:40 PM	
Surr: Octacosane	84.6	0	26-152	%REC	1	8/20/2020 10:40 PM	
Surr: p-Terphenyl	84.1	0	57-132	%REC	1	8/20/2020 10:40 PM	

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B**

RunID:	NV00922-GC4_200816A	QC Batch:	E20VW077	PrepDate:	Analyst:	BH
TPH-Gasoline (C4-C12)	49	21	50	J ug/L	1	8/16/2020 11:56 AM
Surr: Chlorobenzene - d5	97.1	0	74-138	%REC	1	8/16/2020 11:56 AM

**MERCURY BY COLD VAPOR TECHNIQUE**

**EPA 245.1**

RunID:	NV00922-AA2_200817A	QC Batch:	81734	PrepDate:	8/17/2020	Analyst:	DJ
Mercury	ND	0.018	0.050	µg/L	1	8/17/2020 12:13 PM	

**TOTAL METALS BY ICPMS**

**EPA 200.8**

RunID:	NV00922-ICP8_200815A	QC Batch:	81711	PrepDate:	8/15/2020	Analyst:	CEI
Copper	ND	0.26	0.50	µg/L	1	8/15/2020 06:16 PM	
Lead	ND	0.13	0.50	µg/L	1	8/15/2020 06:16 PM	
Zinc	3.5	0.27	1.0	µg/L	1	8/15/2020 06:16 PM	

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



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**CLIENT:** CH2MHill  
**Work Order:** N041853  
**Project:** SFFP Norwalk

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 160.2\_2540D\_W**

Sample ID: <b>MB-82003</b>	SampType: <b>MBLK</b>	TestCode: <b>160.2_2540D_</b>	Units: <b>mg/L</b>	Prep Date: <b>8/17/2020</b>	RunNo: <b>147053</b>						
Client ID: <b>PBW</b>	Batch ID: <b>82003</b>	TestNo: <b>SM2540D</b>		Analysis Date: <b>8/17/2020</b>	SeqNo: <b>3921805</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterab	ND	10									

Sample ID: <b>LCS-82003</b>	SampType: <b>LCS</b>	TestCode: <b>160.2_2540D_</b>	Units: <b>mg/L</b>	Prep Date: <b>8/17/2020</b>	RunNo: <b>147053</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>82003</b>	TestNo: <b>SM2540D</b>		Analysis Date: <b>8/17/2020</b>	SeqNo: <b>3921806</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterab	925.000	10	1000	0	92.5	80	120				

Sample ID: <b>N041778-001CDUP</b>	SampType: <b>DUP</b>	TestCode: <b>160.2_2540D_</b>	Units: <b>mg/L</b>	Prep Date: <b>8/17/2020</b>	RunNo: <b>147053</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>82003</b>	TestNo: <b>SM2540D</b>		Analysis Date: <b>8/17/2020</b>	SeqNo: <b>3921808</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterab	ND	5.0						0	0	5	

**Qualifiers:**

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



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**CLIENT:** CH2MHill  
**Work Order:** N041853  
**Project:** SFFP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 160.5\_2540F\_W**

Sample ID: <b>MB-82004</b>	SampType: <b>MBLK</b>	TestCode: <b>160.5_2540F_</b> Units: <b>ml/L</b>	Prep Date: <b>8/15/2020</b>	RunNo: <b>147051</b>							
Client ID: <b>PBW</b>	Batch ID: <b>82004</b>	TestNo: <b>SM2540F</b>	Analysis Date: <b>8/15/2020</b>	SeqNo: <b>3921777</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Settleable Matter	ND	0.10									

**Qualifiers:**

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



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**CLIENT:** CH2MHill  
**Work Order:** N041853  
**Project:** SFFP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 1664\_HEM\_W**

Sample ID: <b>MB-81710</b>	SampType: <b>MBLK</b>	TestCode: <b>1664_HEM_W</b>	Units: <b>mg/L</b>	Prep Date: <b>8/15/2020</b>	RunNo: <b>146644</b>						
Client ID: <b>PBW</b>	Batch ID: <b>81710</b>	TestNo: <b>EPA 1664_HE</b>		Analysis Date: <b>8/15/2020</b>	SeqNo: <b>3899480</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	ND	4.0
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Sample ID: <b>LCS-81710</b>	SampType: <b>LCS</b>	TestCode: <b>1664_HEM_W</b>	Units: <b>mg/L</b>	Prep Date: <b>8/15/2020</b>	RunNo: <b>146644</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>81710</b>	TestNo: <b>EPA 1664_HE</b>		Analysis Date: <b>8/15/2020</b>	SeqNo: <b>3899481</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	34.900	4.0	40.00	0	87.2	78	114
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Sample ID: <b>LCSD-81710</b>	SampType: <b>LCSD</b>	TestCode: <b>1664_HEM_W</b>	Units: <b>mg/L</b>	Prep Date: <b>8/15/2020</b>	RunNo: <b>146644</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>81710</b>	TestNo: <b>EPA 1664_HE</b>		Analysis Date: <b>8/15/2020</b>	SeqNo: <b>3899482</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	33.800	4.0	40.00	0	84.5	78	114	34.90	3.20	18
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**Qualifiers:**

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



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**CLIENT:** CH2MHill  
**Work Order:** N041853  
**Project:** SFFP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 200.8\_W\_SFPP**

Sample ID: <b>MB-81711</b>	SampType: <b>MBLK</b>	TestCode: <b>200.8_W_SFPP</b>	Units: <b>µg/L</b>	Prep Date: <b>8/15/2020</b>	RunNo: <b>146745</b>						
Client ID: <b>PBW</b>	Batch ID: <b>81711</b>	TestNo: <b>EPA 200.8</b>		Analysis Date: <b>8/15/2020</b>	SeqNo: <b>3905322</b>						
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: <b>LCS-81711</b>	SampType: <b>LCS</b>	TestCode: <b>200.8_W_SFPP</b>	Units: <b>µg/L</b>	Prep Date: <b>8/15/2020</b>	RunNo: <b>146745</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>81711</b>	TestNo: <b>EPA 200.8</b>		Analysis Date: <b>8/15/2020</b>	SeqNo: <b>3905323</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	10.631	0.50	10.00	0	106	85	115				
Lead	10.367	0.50	10.00	0	104	85	115				
Zinc	10.700	1.0	10.00	0	107	85	115				

Sample ID: <b>N041853-001D-DUP</b>	SampType: <b>DUP</b>	TestCode: <b>200.8_W_SFPP</b>	Units: <b>µg/L</b>	Prep Date: <b>8/15/2020</b>	RunNo: <b>146745</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>81711</b>	TestNo: <b>EPA 200.8</b>		Analysis Date: <b>8/15/2020</b>	SeqNo: <b>3905326</b>						
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	3.304	1.0						3.492	5.54	20	

Sample ID: <b>N041853-001D-MS</b>	SampType: <b>MS</b>	TestCode: <b>200.8_W_SFPP</b>	Units: <b>µg/L</b>	Prep Date: <b>8/15/2020</b>	RunNo: <b>146745</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>81711</b>	TestNo: <b>EPA 200.8</b>		Analysis Date: <b>8/15/2020</b>	SeqNo: <b>3905328</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.177	0.50	10.00	0	91.8	75	125				
Lead	10.637	0.50	10.00	0	106	75	125				
Zinc	11.590	1.0	10.00	3.492	81.0	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:** N041853  
**Project:** SFFP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 200.8\_W\_SFPP**

Sample ID: <b>N041853-001D-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>200.8_W_SFPP</b>	Units: <b>µg/L</b>	Prep Date: <b>8/15/2020</b>	RunNo: <b>146745</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>81711</b>	TestNo: <b>EPA 200.8</b>	Analysis Date: <b>8/15/2020</b>	SeqNo: <b>3905329</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.009	0.50	10.00	0	90.1	75	125	9.177	1.85	20	
Lead	10.669	0.50	10.00	0	107	75	125	10.64	0.303	20	
Zinc	11.368	1.0	10.00	3.492	78.8	75	125	11.59	1.93	20	

**Qualifiers:**

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



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**CLIENT:** CH2MHill  
**Work Order:** N041853  
**Project:** SFFP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 2130\_W**

Sample ID: <b>MB-R146691</b>	SampType: <b>MBLK</b>	TestCode: <b>2130_W</b>	Units: <b>NTU</b>	Prep Date:	RunNo: <b>146691</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R146691</b>	TestNo: <b>SM 2130B</b>		Analysis Date: <b>8/15/2020</b>	SeqNo: <b>3902618</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	ND	0.10									

Sample ID: <b>N041853-001GDUP</b>	SampType: <b>DUP</b>	TestCode: <b>2130_W</b>	Units: <b>NTU</b>	Prep Date:	RunNo: <b>146691</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R146691</b>	TestNo: <b>SM 2130B</b>		Analysis Date: <b>8/15/2020</b>	SeqNo: <b>3902620</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	ND	0.10						0	0	30	

**Qualifiers:**

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



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**Work Order:** N041853  
**Project:** SFFP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 245.1\_W\_LL**

Sample ID: <b>MB-81734</b>	SampType: <b>MBLK</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>8/17/2020</b>	RunNo: <b>146690</b>						
Client ID: <b>PBW</b>	Batch ID: <b>81734</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>8/17/2020</b>	SeqNo: <b>3902600</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.027	0.050									J

Sample ID: <b>LCS-81734</b>	SampType: <b>LCS</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>8/17/2020</b>	RunNo: <b>146690</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>81734</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>8/17/2020</b>	SeqNo: <b>3902601</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.430	0.050	2.500	0	97.2	85	115				

Sample ID: <b>N041853-001D-DUP</b>	SampType: <b>DUP</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>8/17/2020</b>	RunNo: <b>146690</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>81734</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>8/17/2020</b>	SeqNo: <b>3902604</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.024	0.050						0	0	20	J

Sample ID: <b>N041853-001D-MS</b>	SampType: <b>MS</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>8/17/2020</b>	RunNo: <b>146690</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>81734</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>8/17/2020</b>	SeqNo: <b>3902606</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.660	0.050	2.500	0	106	75	125				

Sample ID: <b>N041853-001D-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>8/17/2020</b>	RunNo: <b>146690</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>81734</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>8/17/2020</b>	SeqNo: <b>3902607</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.610	0.050	2.500	0	104	75	125	2.660	1.90	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:** N041853  
**Project:** SFFP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_FP\_SFPP**

Sample ID: <b>MB-81820</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_FP_</b>	Units: <b>ug/L</b>	Prep Date: <b>8/20/2020</b>	RunNo: <b>146787</b>						
Client ID: <b>PBW</b>	Batch ID: <b>81820</b>	TestNo: <b>EPA 8015B</b>	<b>EPA 3510C</b>	Analysis Date: <b>8/20/2020</b>	SeqNo: <b>3908049</b>						
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)	23.472	25									J
Surr: Octacosane	65.003		80.00		81.3	26	152				
Surr: p-Terphenyl	64.412		80.00		80.5	57	132				

**Qualifiers:**

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



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**Work Order:** N041853  
**Project:** SFFP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_SFPPTOT**

Sample ID: <b>MB-R146787</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_SFP</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146787</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R146787</b>	TestNo: <b>EPA 8015B</b>		Analysis Date: <b>8/20/2020</b>	SeqNo: <b>3911842</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	69.472	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                 |



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 ORELAP/NELAP Cert 4046

**CLIENT:** CH2MHill  
**Work Order:** N041853  
**Project:** SFFP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015GAS\_WSFP**

Sample ID: <b>E200816LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8015GAS_WS</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146674</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>E20VW077</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>8/16/2020</b>	SeqNo: <b>3901943</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	972.000	50	1000	0	97.2	67	136				
Surr: Chlorobenzene - d5	43638.000		50000		87.3	74	138				

Sample ID: <b>E200816MB</b>	SampType: <b>MBLK</b>	TestCode: <b>8015GAS_WS</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146674</b>						
Client ID: <b>PBW</b>	Batch ID: <b>E20VW077</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>8/16/2020</b>	SeqNo: <b>3901944</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	46.000	50									J
Surr: Chlorobenzene - d5	47268.000		50000		94.5	74	138				

Sample ID: <b>N041814-002DMS</b>	SampType: <b>MS</b>	TestCode: <b>8015GAS_WS</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146674</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E20VW077</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>8/16/2020</b>	SeqNo: <b>3901946</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1116.000	50	1000	58.00	106	67	136				
Surr: Chlorobenzene - d5	44118.000		50000		88.2	74	138				

Sample ID: <b>N041814-002DMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015GAS_WS</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146674</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E20VW077</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>8/16/2020</b>	SeqNo: <b>3901947</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	972.000	50	1000	58.00	91.4	67	136	1116	13.8	30	
Surr: Chlorobenzene - d5	44122.000		50000		88.2	74	138		0	0	

**Qualifiers:**

- |  |  |  |
|--|--|--|
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| 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:** N041853  
**Project:** SFFP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_SFPP**

Sample ID: <b>CA200814-LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260_WP_SF</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146653</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>CA20VW106</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>8/14/2020</b>	SeqNo: <b>3900628</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	19.590	0.50	20.00	0	98.0	69	133				
1,2-Dichloroethane	18.350	0.50	20.00	0	91.8	69	132				
Benzene	21.600	1.0	20.00	0	108	81	122				
Ethylbenzene	21.660	1.0	20.00	0	108	73	127				
m,p-Xylene	44.290	1.0	40.00	0	111	76	128				
MTBE	16.830	1.0	20.00	0	84.2	65	123				
o-Xylene	21.540	1.0	20.00	0	108	80	121				
Tert-Butanol	86.260	5.0	100.0	0	86.3	70	130				
Toluene	21.820	2.0	20.00	0	109	77	122				
Xylenes, Total	65.830	2.0	60.00	0	110	75	125				
Surr: 1,2-Dichloroethane-d4	24.280		25.00		97.1	72	119				
Surr: 4-Bromofluorobenzene	24.590		25.00		98.4	76	119				
Surr: Dibromofluoromethane	25.050		25.00		100	85	115				
Surr: Toluene-d8	26.880		25.00		108	81	120				

Sample ID: <b>N041773-003C-MS</b>	SampType: <b>MS</b>	TestCode: <b>8260_WP_SF</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146653</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>CA20VW106</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>8/14/2020</b>	SeqNo: <b>3900629</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	18.710	0.50	20.00	0	93.6	69	133				
1,2-Dichloroethane	17.050	0.50	20.00	0	85.2	69	132				
Benzene	19.970	1.0	20.00	0	99.8	81	122				
Ethylbenzene	20.000	1.0	20.00	0	100	73	127				
m,p-Xylene	41.330	1.0	40.00	0	103	76	128				
MTBE	17.020	1.0	20.00	0	85.1	65	123				
o-Xylene	19.670	1.0	20.00	0	98.4	80	121				
Tert-Butanol	84.470	5.0	100.0	0	84.5	70	130				
Toluene	20.840	2.0	20.00	0	104	77	122				
Xylenes, Total	61.000	2.0	60.00	0	102	75	125				
Surr: 1,2-Dichloroethane-d4	23.820		25.00		95.3	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:** N041853  
**Project:** SFFP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_SFPP**

Sample ID: <b>N041773-003C-MS</b>	SampType: <b>MS</b>	TestCode: <b>8260_WP_SF</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146653</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>CA20VW106</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>8/14/2020</b>	SeqNo: <b>3900629</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	25.350		25.00		101	76	119				
Surr: Dibromofluoromethane	25.370		25.00		101	85	115				
Surr: Toluene-d8	27.370		25.00		109	81	120				

Sample ID: <b>N041773-003C-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260_WP_SF</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146653</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>CA20VW106</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>8/14/2020</b>	SeqNo: <b>3900630</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	16.770	0.50	20.00	0	83.9	69	133	18.71	10.9	20	
1,2-Dichloroethane	18.430	0.50	20.00	0	92.2	69	132	17.05	7.78	20	
Benzene	18.440	1.0	20.00	0	92.2	81	122	19.97	7.97	20	
Ethylbenzene	18.070	1.0	20.00	0	90.4	73	127	20.00	10.1	20	
m,p-Xylene	36.600	1.0	40.00	0	91.5	76	128	41.33	12.1	20	
MTBE	17.490	1.0	20.00	0	87.5	65	123	17.02	2.72	20	
o-Xylene	18.530	1.0	20.00	0	92.6	80	121	19.67	5.97	20	
Tert-Butanol	104.980	5.0	100.0	0	105	70	130	84.47	21.7	20	R
Toluene	18.630	2.0	20.00	0	93.2	77	122	20.84	11.2	20	
Xylenes, Total	55.130	2.0	60.00	0	91.9	75	125	61.00	10.1	20	
Surr: 1,2-Dichloroethane-d4	24.590		25.00		98.4	72	119		0		
Surr: 4-Bromofluorobenzene	24.590		25.00		98.4	76	119		0		
Surr: Dibromofluoromethane	26.190		25.00		105	85	115		0		
Surr: Toluene-d8	26.390		25.00		106	81	120		0		

Sample ID: <b>CA200814-MB2</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_SF</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146653</b>						
Client ID: <b>PBW</b>	Batch ID: <b>CA20VW106</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>8/14/2020</b>	SeqNo: <b>3900631</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	ND	0.50									
1,2-Dichloroethane	ND	0.50									
Benzene	ND	1.0									

**Qualifiers:**

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

**CLIENT:** CH2MHill  
**Work Order:** N041853  
**Project:** SFFP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_SFPP**

Sample ID: <b>CA200814-MB2</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_SF</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>146653</b>						
Client ID: <b>PBW</b>	Batch ID: <b>CA20VW106</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>8/14/2020</b>	SeqNo: <b>3900631</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
MTBE	ND	1.0									
o-Xylene	ND	1.0									
Tert-Butanol	ND	5.0									
Toluene	ND	2.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	25.350		25.00		101	72	119				
Surr: 4-Bromofluorobenzene	25.430		25.00		102	76	119				
Surr: Dibromofluoromethane	28.280		25.00		113	85	115				
Surr: Toluene-d8	28.000		25.00		112	81	120				

**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:** N041853  
**Project:** SFFP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270WATER\_SIMEXT**

Sample ID: <b>LCS-81818</b>	SampType: <b>LCS</b>	TestCode: <b>8270WATER_</b> Units: <b>µg/L</b>	Prep Date: <b>8/20/2020</b>	RunNo: <b>147026</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>81818</b>	TestNo: <b>EPA 8270C EPA 3510C</b>	Analysis Date: <b>8/29/2020</b>	SeqNo: <b>3920230</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Phenol	3.740	1.0	6.000	0	62.3	24	120				
Surr: Phenol-d5	0.580		1.000		58.0	25	108				

Sample ID: <b>LCSD-81818</b>	SampType: <b>LCSD</b>	TestCode: <b>8270WATER_</b> Units: <b>µg/L</b>	Prep Date: <b>8/20/2020</b>	RunNo: <b>147026</b>							
Client ID: <b>LCSS02</b>	Batch ID: <b>81818</b>	TestNo: <b>EPA 8270C EPA 3510C</b>	Analysis Date: <b>8/29/2020</b>	SeqNo: <b>3920231</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Phenol	3.710	1.0	6.000	0	61.8	24	120	3.740	0.805	20	
Surr: Phenol-d5	0.570		1.000		57.0	25	108		0		

Sample ID: <b>MB-81818</b>	SampType: <b>MBLK</b>	TestCode: <b>8270WATER_</b> Units: <b>µg/L</b>	Prep Date: <b>8/20/2020</b>	RunNo: <b>147026</b>							
Client ID: <b>PBW</b>	Batch ID: <b>81818</b>	TestNo: <b>EPA 8270C EPA 3510C</b>	Analysis Date: <b>8/29/2020</b>	SeqNo: <b>3920236</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Phenol	ND	1.0									
Surr: Phenol-d5	0.290		1.000		29.0	25	108				

**Qualifiers:**

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|--|--|--|
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**CLIENT:** CH2MHill  
**Work Order:** N041853  
**Project:** SFFP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270WSIM\_DIOXANE**

Sample ID: <b>LCS-81819</b>	SampType: <b>LCS</b>	TestCode: <b>8270WSIM_DI</b> Units: <b>µg/L</b>	Prep Date: <b>8/20/2020</b>	RunNo: <b>147029</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>81819</b>	TestNo: <b>EPA 8270C(M EPA 3510C)</b>	Analysis Date: <b>8/29/2020</b>	SeqNo: <b>3920488</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,4-Dioxane	3.578	1.0	4.000	0.1210	86.4	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.855		1.000		85.5	27	100				

Sample ID: <b>LCSD-81819</b>	SampType: <b>LCSD</b>	TestCode: <b>8270WSIM_DI</b> Units: <b>µg/L</b>	Prep Date: <b>8/20/2020</b>	RunNo: <b>147029</b>							
Client ID: <b>LCSS02</b>	Batch ID: <b>81819</b>	TestNo: <b>EPA 8270C(M EPA 3510C)</b>	Analysis Date: <b>8/29/2020</b>	SeqNo: <b>3920489</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,4-Dioxane	3.650	1.0	4.000	0.1210	88.2	70	130	3.578	1.99	20	
Surr: 1,2-Dichlorobenzene-d4	0.816		1.000		81.6	27	100		0		

Sample ID: <b>MB-81819</b>	SampType: <b>MBLK</b>	TestCode: <b>8270WSIM_DI</b> Units: <b>µg/L</b>	Prep Date: <b>8/20/2020</b>	RunNo: <b>147029</b>							
Client ID: <b>PBW</b>	Batch ID: <b>81819</b>	TestNo: <b>EPA 8270C(M EPA 3510C)</b>	Analysis Date: <b>8/29/2020</b>	SeqNo: <b>3920490</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,4-Dioxane	0.121	1.0									J
Surr: 1,2-Dichlorobenzene-d4	0.979		1.000		97.9	27	100				

**Qualifiers:**

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



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 ORELAP/NELAP Cert 4046







# ASSET Laboratories

## WORK ORDER Summary

17-Aug-20

WorkOrder: N041853

Client ID: CH2HI03

Project: SFFP Norwalk

QC Level: RTNE

Date Received: 8/14/2020

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

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041853-001A	EFF-08-14	8/14/2020 11:00:00 AM	8/18/2020	Wastewater	EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	V-CA
N041853-001B			8/18/2020		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N041853-001C			8/18/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/18/2020		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/18/2020		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N041853-001D			8/18/2020			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/18/2020		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/18/2020		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/18/2020			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N041853-001E			8/21/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: DIOXANE-SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/21/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/21/2020		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/21/2020		EPA 8270C(M)	1,4-DIOXANE BY GCMS-SIM ISOTOPE DILUTION TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N041853-001F			8/21/2020		SM 5210 B	BIOCHEMICAL OXYGEN DEMAND	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N041853-001G			8/21/2020		SM 2130B	TURBIDITY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
N041853-001H			8/21/2020			Oil and Grease Sample Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
			8/21/2020		EPA 1664 _HEM Prep	Hexane Extractable Material (HEM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
N041853-001I			8/21/2020		SM4500-NH3C	AMMONIA-N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N041853-001J			8/21/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/21/2020			Total Suspended Solids Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

# ASSET Laboratories

## WORK ORDER Summary

17-Aug-20

**WorkOrder:** N041853

**Client ID:** CH2HI03

**Project:** SFFP Norwalk

**QC Level:** RTNE

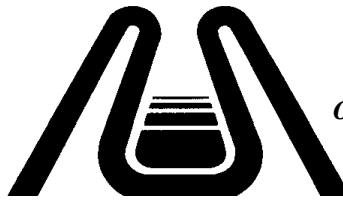
**Date Received:** 8/14/2020

**Comments:** Report metals, TPH and VOC preliminary data on 24-hr TAT

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041853-001J	EFF-08-14	8/14/2020 11:00:00 AM	8/21/2020	Wastewater	SM2540F	SETTLEABLE MATTER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/21/2020			Setteable Matter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N041853-002A	FOLDER	8/18/2020	8/18/2020		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			8/18/2020		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

**CHAIN OF CUSTODY RECORD**

Client: ASSET Laboratories		Report to: Emil Angelo Rodriguez		Bill to: Eivira Allegaert/Accounts Payable		EDD Requirement		QA/QC		Sample Receipt Condition	
Address: 11110 Artesia Blvd Ste B		Company: ASSET Laboratories		Address: 11110 Artesia Blvd Ste B		Excel EDD <input type="checkbox"/>		RTNE <input type="checkbox"/>		Y N	
Address: Cerritos, CA 90703		Email: emilangelo@assetlaboratories.com		Address: Cerritos, CA 90703		GeoTracker <input type="checkbox"/>		RWQCB <input type="checkbox"/>		1. Chilled <input type="checkbox"/>	
Phone: 562.219.7435 Fax: 562.219.7436		Address: 11110 Artesia Blvd Ste B		Email to: elvira@assetlaboratories.com		LabSpec <input type="checkbox"/>		Ca/Trans <input type="checkbox"/>		2. Handpacs <input type="checkbox"/>	
Submitted By: Emil Angelo Rodriguez		Address: Cerritos, CA 90703		Phone: 562.219.7435		Others <input type="checkbox"/>		Level III <input type="checkbox"/>		3. Container Intact <input type="checkbox"/>	
Title: Project Manager		Phone: 562.881.0611 Fax: 562.219.7436		PO#: N41853A		Specify:		LEVEL IV <input type="checkbox"/>		4. Seal Present <input type="checkbox"/>	
Signature: _____ Date: _____		Sampled by: _____ SIGNED		Global ID:		Regulatory <input type="checkbox"/>		Specify State:		5. IR number _____	
I hereby authorize ASSET Labs to perform the tests indicated below:		Ground <input type="checkbox"/> Sediment <input type="checkbox"/>		Matrix		Global ID:		Specify State:		6. Method of Cooling _____	
Project Name: SFPP Norwalk		Potable <input type="checkbox"/> Soil <input type="checkbox"/>		NPDES <input type="checkbox"/> Other Solid <input type="checkbox"/>		Ammonia (as N) SM-4500 NH3		Turn Around Time (TAT)		Tracking No. _____	
Project Number: _____		Surface <input type="checkbox"/>		BOD (@ 20 deg) SM5210B		BOD (@ 20 deg) SM5210B		No. of Containers		Remarks	
Item No.		Laboratory Work Order No.		Sample ID/Location		Date		Time		Water	
1				EFF-08-14		8/14/2020		1100		X	
2											
3											
4											
5											
6											
7											
8											
9											
10											
Relinquished by (Signature and Printed Name):		Date / Time		Received by (Signature and Printed Name):		Date / Time		Turn Around Time (TAT)		Special instructions:	
A. DASILWA		8/14/20 1445		EMIL R		8/14/20 1445		<input type="checkbox"/> A = <24Hrs or Same Day <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		include reports@assetlaboratories.com, tmailt@assetlaboratories.com and sonny.lorenzo@assetlaboratories.com when reporting	
Relinquished by (Signature and Printed Name):		Date / Time		Received by (Signature and Printed Name):		Date / Time		TAT starts at 6 AM the following day if samples are received after 3:00 PM		Results needed 8/24/20	
EMIL R		8/14/20 1537		EMIL R		8/14/20 3:37 PM					
Relinquished by (Signature and Printed Name):		Date / Time		Received by (Signature and Printed Name):		Date / Time					
		8/14/20 3:37									
Terms		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 report is needed.		9. For subcontract analysis. TAT and Surcharges will vary.	
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 Less than 24 Hrs = 200% Next Day = 100% 2 Workdays = 50% 3 Workdays = 35% 4 Workdays = 20%		3. Custom EDD formats will be an additional 3% of the total project price.		4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project		Preservatives:		Container Type:	
		H: HCl		N: HNO <sub>3</sub>		S: H <sub>2</sub> SO <sub>4</sub>		C: <= 6°C		T = Tube V = VOA P = Pint	
		Z: Zn(AC) <sub>2</sub>		O: NaOH		T: Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>				J = Jar B = Tedlar G = Glass	
		Others/Specify:								M = Metal P = Plastic C = Can	



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# Michelson Laboratories, Inc.

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## LABORATORY CERTIFICATE

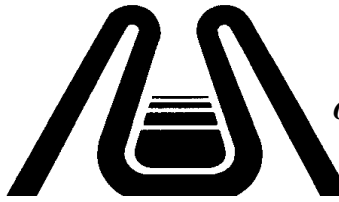
Submitted By: ASSET LABORATORIES  
11110 ARTESIA BLVD  
SUITE B  
CERRITOS, CA 90703  
Attn : THAD MALIT

Printed : 08/20/2020  
Lab No. : 081420-C217772  
Report No. : 081420-C217772B  
Order No. : N41853A  
Received : 8/14/2020  
Page : 1 of 1

REPORT #	PRODUCT / TEST	METHOD	RESULT	DET LIMIT	UNITS	START:DT
C217772-01	EFF-08-14 BIOCHEMICAL OXYGEN DEMAND, BOD	SM 5210 B	890	2.0	mg/l	08/14/20
C217772-02	EFF-08-14 NITROGEN, AMMONIA	SM 4500 NH3B,C	<0.10	0.10	mg/l NH3	08/20/20

## MICHELSON LABORATORIES, INC.

Leanne Salleza, Quality Systems | 8/20/2020 6:34:40 PM



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### LABORATORY CERTIFICATE

Submitted By: ASSET LABORATORIES  
11110 ARTESIA BLVD  
SUITE B  
CERRITOS, CA 90703  
Attn : THAD MALIT

Printed : 09/03/2020  
Lab No. : 081420-C217772  
Report No. : 081420-C217772C  
Order No. : N41853A  
Received : 8/14/2020  
Page : 1 of 1

REPORT #	PRODUCT / TEST	METHOD	RESULT	DET LIMIT	UNITS	START:DT
C217772-01	EFF-08-14 BIOCHEMICAL OXYGEN DEMAND, BOD	SM 5210 B	890	2.0	mg/l	08/14/20
C217772-02	EFF-08-14 NITROGEN, AMMONIA	SM 4500 NH3B,C	<0.10	0.10	mg/l NH3	08/20/20

LCS Recovery: 80.3 %  
LCS/LCSD RPD: 13.5 %  
BOD Blank: 1.9100 mg/L  
BOD Blank + Seed: 1.3200 mg/L

## MICHELSON LABORATORIES, INC.

Maria Lopez, Instrumentation Manager | 9/3/2020 4:15:16 PM

October 13, 2020

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

TEL:

FAX:

Workorder No.: N042371

RE: SFPP Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on September 29, 2020 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,



Nancy Sibucan  
Laboratory Director

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



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ORELAP/NELAP Cert 4046



**CLIENT:** CH2MHill  
**Project:** SFPP Norwalk  
**Lab Order:** N042371

**CASE NARRATIVE**

**SAMPLE RECEIVING/GENERAL COMMENTS:**

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

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

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

Samples were analyzed within method holding time.

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

Ammonica and BOD was subcontracted to BC Laboratories, Bakersfield CA

**Analytical comments for EPA 8260B:**

Matrix Spike (MS) is outside recovery criteria on analyte o-Xylene possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

**Analytical comments for EPA 8270C:**

Surrogate Phenol-d5 recovery was below the laboratory acceptable limit on sample N042371-001. Reanalysis confirms low recovery caused by matrix effect.



**CLIENT:** CH2MHill  
**Project:** SFPP Norwalk  
**Lab Order:** N042371  
**Contract No:**

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N042371-001A	EFF-09-29-20	Water	9/29/2020 8:00:00 AM	9/29/2020	10/13/2020
N042371-001B	EFF-09-29-20	Water	9/29/2020 8:00:00 AM	9/29/2020	10/13/2020
N042371-001C	EFF-09-29-20	Water	9/29/2020 8:00:00 AM	9/29/2020	10/13/2020
N042371-001D	EFF-09-29-20	Water	9/29/2020 8:00:00 AM	9/29/2020	10/13/2020
N042371-001E	EFF-09-29-20	Water	9/29/2020 8:00:00 AM	9/29/2020	10/13/2020
N042371-001F	EFF-09-29-20	Water	9/29/2020 8:00:00 AM	9/29/2020	10/13/2020
N042371-001G	EFF-09-29-20	Water	9/29/2020 8:00:00 AM	9/29/2020	10/13/2020



**ASSET Laboratories**

**ANALYTICAL RESULTS**

Print Date: 13-Oct-20

**CLIENT:** CH2MHill  
**Lab Order:** N042371  
**Project:** SFPP Norwalk  
**Lab ID:** N042371-001

**Client Sample ID:** EFF-09-29-20  
**Collection Date:** 9/29/2020 8:00:00 AM  
**Matrix:** WATER

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

**EPA 3510C**

**EPA 8270C**

RunID: <b>NV00922-MS9_201005C</b>	QC Batch: <b>82409</b>			PrepDate: <b>10/5/2020</b>		Analyst: <b>PL</b>
Phenol	ND	0.33	1.0	µg/L	1	10/6/2020 01:52 AM
Surr: Phenol-d5	23.0	0	25-108	S %REC	1	10/6/2020 01:52 AM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: <b>CA01638-MS10_200930A</b>	QC Batch: <b>CA20VW122</b>			PrepDate:		Analyst: <b>AW</b>
1,1-Dichloroethane	ND	0.22	0.50	µg/L	1	9/30/2020 01:31 PM
1,2-Dichloroethane	ND	0.16	0.50	µg/L	1	9/30/2020 01:31 PM
Benzene	ND	0.11	1.0	µg/L	1	9/30/2020 01:31 PM
Ethylbenzene	ND	0.11	1.0	µg/L	1	9/30/2020 01:31 PM
m,p-Xylene	ND	0.23	1.0	µg/L	1	9/30/2020 01:31 PM
MTBE	ND	0.44	1.0	µg/L	1	9/30/2020 01:31 PM
o-Xylene	ND	0.087	1.0	µg/L	1	9/30/2020 01:31 PM
Tert-Butanol	ND	2.8	5.0	µg/L	1	9/30/2020 01:31 PM
Toluene	ND	0.13	2.0	µg/L	1	9/30/2020 01:31 PM
Xylenes, Total	ND	1.5	2.0	µg/L	1	9/30/2020 01:31 PM
Surr: 1,2-Dichloroethane-d4	103	0	72-119	%REC	1	9/30/2020 01:31 PM
Surr: 4-Bromofluorobenzene	80.5	0	76-119	%REC	1	9/30/2020 01:31 PM
Surr: Dibromofluoromethane	88.4	0	85-115	%REC	1	9/30/2020 01:31 PM
Surr: Toluene-d8	95.9	0	81-120	%REC	1	9/30/2020 01:31 PM

**TPH EXTRACTABLE BY GC/FID**

**EPA 3510C**

**EPA 8015B**

RunID: <b>NV00922-GC3_200930A</b>	QC Batch: <b>82363</b>			PrepDate: <b>9/30/2020</b>		Analyst: <b>PL</b>
TPH-Diesel (C13-C22)	ND	15	25	µg/L	1	10/1/2020 02:13 AM
TPH-Oil (C23-C36)	18	14	25	J µg/L	1	10/1/2020 02:13 AM
Surr: Octacosane	77.3	0	26-152	%REC	1	10/1/2020 02:13 AM
Surr: p-Terphenyl	73.3	0	57-132	%REC	1	10/1/2020 02:13 AM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B**

RunID: <b>NV00922-GC4_200930A</b>	QC Batch: <b>E20VW093</b>			PrepDate:		Analyst: <b>BH</b>
TPH-Gasoline (C4-C12)	41	21	50	J µg/L	1	9/30/2020 10:42 AM
Surr: Chlorobenzene - d5	121	0	74-138	%REC	1	9/30/2020 10:42 AM

**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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**ANALYTICAL RESULTS**

Print Date: 13-Oct-20

<b>CLIENT:</b> CH2MHill	<b>Client Sample ID:</b> EFF-09-29-20
<b>Lab Order:</b> N042371	<b>Collection Date:</b> 9/29/2020 8:00:00 AM
<b>Project:</b> SFPP Norwalk	<b>Matrix:</b> WATER
<b>Lab ID:</b> N042371-001	

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

**EPA 245.1**

RunID: <b>NV00922-AA2_200930A</b>	QC Batch: <b>82355</b>			PrepDate: <b>9/30/2020</b>		Analyst: <b>DJ</b>
Mercury	ND	0.018	0.050	µg/L	1	9/30/2020 02:05 PM

**TOTAL METALS BY ICPMS**

**EPA 200.8**

RunID: <b>NV00922-ICP8_200930A</b>	QC Batch: <b>82350</b>			PrepDate: <b>9/30/2020</b>		Analyst: <b>CEI</b>
Copper	0.49	0.26	0.50	J µg/L	1	9/30/2020 12:21 PM
Lead	ND	0.13	0.50	µg/L	1	9/30/2020 12:21 PM
Zinc	1.1	0.27	1.0	µg/L	1	9/30/2020 12:21 PM

**TOTAL TPH**

**EPA 8015B**

RunID: <b>NV00922-GC3_200930A</b>	QC Batch: <b>R147669</b>			PrepDate:		Analyst: <b>PL</b>
Total TPH	59	21	100	J ug/L	1	10/1/2020

<b>Qualifiers:</b>	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:** N042371  
**Project:** SFPP Norwalk

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 200.8\_W\_SFPP**

Sample ID: <b>MB-82350</b>	SampType: <b>MBLK</b>	TestCode: <b>200.8_W_SFPP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2020</b>	RunNo: <b>147679</b>						
Client ID: <b>PBW</b>	Batch ID: <b>82350</b>	TestNo: <b>EPA 200.8</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3950024</b>						
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: <b>LCS-82350</b>	SampType: <b>LCS</b>	TestCode: <b>200.8_W_SFPP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2020</b>	RunNo: <b>147679</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>82350</b>	TestNo: <b>EPA 200.8</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3950025</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	10.215	0.50	10.00	0	102	85	115				
Lead	10.006	0.50	10.00	0	100	85	115				
Zinc	9.208	1.0	10.00	0	92.1	85	115				

Sample ID: <b>N042371-001D-DUP</b>	SampType: <b>DUP</b>	TestCode: <b>200.8_W_SFPP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2020</b>	RunNo: <b>147679</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>82350</b>	TestNo: <b>EPA 200.8</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3950031</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	ND	0.50						0.4886	0	20	
Lead	ND	0.50						0	0	20	
Zinc	0.649	1.0						1.132	0	20	J

Sample ID: <b>N042371-001D-MS</b>	SampType: <b>MS</b>	TestCode: <b>200.8_W_SFPP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2020</b>	RunNo: <b>147679</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>82350</b>	TestNo: <b>EPA 200.8</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3950033</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	9.553	0.50	10.00	0.4886	90.6	75	125				
Lead	10.489	0.50	10.00	0	105	75	125				
Zinc	10.625	1.0	10.00	1.132	94.9	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:** N042371  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 200.8\_W\_SFPP**

Sample ID: <b>N042371-001D-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>200.8_W_SFPP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2020</b>	RunNo: <b>147679</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>82350</b>	TestNo: <b>EPA 200.8</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3950034</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.570	0.50	10.00	0.4886	90.8	75	125	9.553	0.179	20	
Lead	10.472	0.50	10.00	0	105	75	125	10.49	0.167	20	
Zinc	10.654	1.0	10.00	1.132	95.2	75	125	10.63	0.271	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                 |



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**CLIENT:** CH2MHill  
**Work Order:** N042371  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 245.1\_W\_LL**

Sample ID: <b>MB-82355</b>	SampType: <b>MBLK</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2020</b>	RunNo: <b>147657</b>						
Client ID: <b>PBW</b>	Batch ID: <b>82355</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3948525</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050

Sample ID: <b>LCS-82355</b>	SampType: <b>LCS</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2020</b>	RunNo: <b>147657</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>82355</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3948526</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.260 0.050 2.500 0 90.4 85 115

Sample ID: <b>N042371-001D-DUP</b>	SampType: <b>DUP</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2020</b>	RunNo: <b>147657</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>82355</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3948529</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050 0 0 20

Sample ID: <b>N042371-001D-MS</b>	SampType: <b>MS</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2020</b>	RunNo: <b>147657</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>82355</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3948531</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.330 0.050 2.500 0 93.2 75 125

Sample ID: <b>N042371-001D-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>245.1_W_LL</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2020</b>	RunNo: <b>147657</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>82355</b>	TestNo: <b>EPA 245.1</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3948532</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.250 0.050 2.500 0 90.0 75 125 2.330 3.49 20

**Qualifiers:**

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



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**CLIENT:** CH2MHill  
**Work Order:** N042371  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_FP\_SFPP**

Sample ID: <b>MB-82363</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_FP_</b>	Units: <b>ug/L</b>	Prep Date: <b>9/30/2020</b>	RunNo: <b>147669</b>						
Client ID: <b>PBW</b>	Batch ID: <b>82363</b>	TestNo: <b>EPA 8015B EPA 3510C</b>		Analysis Date: <b>10/1/2020</b>	SeqNo: <b>3949914</b>						
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)	17.210	25									J
Surr: Octacosane	51.760		80.00		64.7	26	152				
Surr: p-Terphenyl	48.254		80.00		60.3	57	132				

**Qualifiers:**

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|--|--|--|
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**CLIENT:** CH2MHill  
**Work Order:** N042371  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_SFPPTOT**

Sample ID: <b>MB-R147669</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_SFP</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>147669</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R147669</b>	TestNo: <b>EPA 8015B</b>		Analysis Date: <b>10/1/2020</b>	SeqNo: <b>3949947</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	62.210	100									J

**Qualifiers:**

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|--|--|--|
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| J Analyte detected below quantitation limits                   | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits               |
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**CLIENT:** CH2MHill  
**Work Order:** N042371  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015GAS\_WSFP**

Sample ID: <b>E200930LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8015GAS_WS</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>147675</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>E20VW093</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3949889</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	856.000	50	1000	0	85.6	67	136				
Surr: Chlorobenzene - d5	49016.000		50000		98.0	74	138				

Sample ID: <b>E200930MB</b>	SampType: <b>MBLK</b>	TestCode: <b>8015GAS_WS</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>147675</b>						
Client ID: <b>PBW</b>	Batch ID: <b>E20VW093</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3949890</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	45.000	50									J
Surr: Chlorobenzene - d5	48820.000		50000		97.6	74	138				

Sample ID: <b>N042371-001BMS</b>	SampType: <b>MS</b>	TestCode: <b>8015GAS_WS</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>147675</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E20VW093</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3949892</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	872.000	50	1000	41.00	83.1	67	136				
Surr: Chlorobenzene - d5	52488.000		50000		105	74	138				

Sample ID: <b>N042371-001BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015GAS_WS</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>147675</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E20VW093</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3949893</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1043.000	50	1000	41.00	100	67	136	872.0	17.9	30	
Surr: Chlorobenzene - d5	53172.000		50000		106	74	138		0	0	

Sample ID: <b>N042376-001BDUP</b>	SampType: <b>DUP</b>	TestCode: <b>8015GAS_WS</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>147675</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E20VW093</b>	TestNo: <b>EPA 8015B</b>	Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3949895</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	35.000	50						39.00	0	0	J

**Qualifiers:**

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|--|--|--|
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**CLIENT:** CH2MHill  
**Work Order:** N042371  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015GAS\_WSFPP**

Sample ID: <b>N042376-001BDUP</b>	SampType: <b>DUP</b>	TestCode: <b>8015GAS_WS</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>147675</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>E20VW093</b>	TestNo: <b>EPA 8015B</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3949895</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	54650.000		50000		109	74	138		0	0	

**Qualifiers:**

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**CLIENT:** CH2MHill  
**Work Order:** N042371  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_SFPP**

Sample ID: CA200930-LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 147656						
Client ID: LCSW	Batch ID: CA20VW122	TestNo: EPA 8260B		Analysis Date: 9/30/2020	SeqNo: 3948895						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	17.980	0.50	20.00	0	89.9	69	133				
1,2-Dichloroethane	18.410	0.50	20.00	0	92.0	69	132				
Benzene	17.840	1.0	20.00	0	89.2	81	122				
Ethylbenzene	20.370	1.0	20.00	0	102	73	127				
m,p-Xylene	42.360	1.0	40.00	0	106	76	128				
MTBE	16.020	1.0	20.00	0	80.1	65	123				
o-Xylene	17.300	1.0	20.00	0	86.5	80	121				
Tert-Butanol	97.990	5.0	100.0	0	98.0	70	130				
Toluene	19.360	2.0	20.00	0	96.8	77	122				
Xylenes, Total	59.660	2.0	60.00	0	99.4	75	125				
Surr: 1,2-Dichloroethane-d4	23.920		25.00		95.7	72	119				
Surr: 4-Bromofluorobenzene	21.340		25.00		85.4	76	119				
Surr: Dibromofluoromethane	22.040		25.00		88.2	85	115				
Surr: Toluene-d8	21.920		25.00		87.7	81	120				

Sample ID: N042371-001A-MS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 147656						
Client ID: ZZZZZZ	Batch ID: CA20VW122	TestNo: EPA 8260B		Analysis Date: 9/30/2020	SeqNo: 3948896						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	18.320	0.50	20.00	0	91.6	69	133				
1,2-Dichloroethane	17.520	0.50	20.00	0	87.6	69	132				
Benzene	17.190	1.0	20.00	0	86.0	81	122				
Ethylbenzene	18.690	1.0	20.00	0	93.5	73	127				
m,p-Xylene	37.970	1.0	40.00	0	94.9	76	128				
MTBE	18.080	1.0	20.00	0	90.4	65	123				
o-Xylene	15.970	1.0	20.00	0	79.8	80	121				
Tert-Butanol	107.080	5.0	100.0	0	107	70	130				S
Toluene	18.300	2.0	20.00	0	91.5	77	122				
Xylenes, Total	53.940	2.0	60.00	0	89.9	75	125				
Surr: 1,2-Dichloroethane-d4	22.310		25.00		89.2	72	119				

**Qualifiers:**

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**CLIENT:** CH2MHill  
**Work Order:** N042371  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_SFPP**

Sample ID: <b>N042371-001A-MS</b>	SampType: <b>MS</b>	TestCode: <b>8260_WP_SF</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>147656</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>CA20VW122</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3948896</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	21.730		25.00		86.9	76	119				
Surr: Dibromofluoromethane	22.990		25.00		92.0	85	115				
Surr: Toluene-d8	23.160		25.00		92.6	81	120				

Sample ID: <b>N042371-001A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260_WP_SF</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>147656</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>CA20VW122</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3948897</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	20.150	0.50	20.00	0	101	69	133	18.32	9.51	20	
1,2-Dichloroethane	19.810	0.50	20.00	0	99.0	69	132	17.52	12.3	20	
Benzene	18.530	1.0	20.00	0	92.6	81	122	17.19	7.50	20	
Ethylbenzene	19.820	1.0	20.00	0	99.1	73	127	18.69	5.87	20	
m,p-Xylene	41.540	1.0	40.00	0	104	76	128	37.97	8.98	20	
MTBE	18.110	1.0	20.00	0	90.6	65	123	18.08	0.166	20	
o-Xylene	16.320	1.0	20.00	0	81.6	80	121	15.97	2.17	20	
Tert-Butanol	104.160	5.0	100.0	0	104	70	130	107.1	2.76	20	
Toluene	20.400	2.0	20.00	0	102	77	122	18.30	10.9	20	
Xylenes, Total	57.860	2.0	60.00	0	96.4	75	125	53.94	7.01	20	
Surr: 1,2-Dichloroethane-d4	23.910		25.00		95.6	72	119		0		
Surr: 4-Bromofluorobenzene	21.270		25.00		85.1	76	119		0		
Surr: Dibromofluoromethane	25.490		25.00		102	85	115		0		
Surr: Toluene-d8	22.200		25.00		88.8	81	120		0		

Sample ID: <b>CA200930-MB5</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_SF</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>147656</b>						
Client ID: <b>PBW</b>	Batch ID: <b>CA20VW122</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3948898</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	ND	0.50									
1,2-Dichloroethane	ND	0.50									
Benzene	ND	1.0									

**Qualifiers:**

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|--|--|--|
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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:** N042371  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_SFPP**

Sample ID: <b>CA200930-MB5</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_SF</b>	Units: <b>ug/L</b>	Prep Date:	RunNo: <b>147656</b>						
Client ID: <b>PBW</b>	Batch ID: <b>CA20VW122</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>9/30/2020</b>	SeqNo: <b>3948898</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
MTBE	ND	1.0									
o-Xylene	ND	1.0									
Tert-Butanol	ND	5.0									
Toluene	ND	2.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	24.340		25.00		97.4	72	119				
Surr: 4-Bromofluorobenzene	20.230		25.00		80.9	76	119				
Surr: Dibromofluoromethane	24.380		25.00		97.5	85	115				
Surr: Toluene-d8	21.860		25.00		87.4	81	120				

**Qualifiers:**

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|--|--|--|
| B Analyte detected in the associated Method Blank              | E Value above quantitation range       | H Holding times for preparation or analysis exceeded |
| 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:** N042371  
**Project:** SFPP Norwalk

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270WATER\_SIMEXT**

Sample ID: <b>LCS-82409</b>	SampType: <b>LCS</b>	TestCode: <b>8270WATER_</b> Units: <b>µg/L</b>	Prep Date: <b>10/5/2020</b>	RunNo: <b>147782</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>82409</b>	TestNo: <b>EPA 8270C EPA 3510C</b>	Analysis Date: <b>10/6/2020</b>	SeqNo: <b>3956367</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	3.870	1.0	6.000	0	64.5	24	120				
Surr: Phenol-d5	0.500		1.000		50.0	25	108				

Sample ID: <b>LCSD-82409</b>	SampType: <b>LCSD</b>	TestCode: <b>8270WATER_</b> Units: <b>µg/L</b>	Prep Date: <b>10/5/2020</b>	RunNo: <b>147782</b>							
Client ID: <b>LCSS02</b>	Batch ID: <b>82409</b>	TestNo: <b>EPA 8270C EPA 3510C</b>	Analysis Date: <b>10/6/2020</b>	SeqNo: <b>3956368</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	4.170	1.0	6.000	0	69.5	24	120	3.870	7.46	20	
Surr: Phenol-d5	0.530		1.000		53.0	25	108		0		

Sample ID: <b>MB-82409</b>	SampType: <b>MBLK</b>	TestCode: <b>8270WATER_</b> Units: <b>µg/L</b>	Prep Date: <b>10/5/2020</b>	RunNo: <b>147782</b>							
Client ID: <b>PBW</b>	Batch ID: <b>82409</b>	TestNo: <b>EPA 8270C EPA 3510C</b>	Analysis Date: <b>10/6/2020</b>	SeqNo: <b>3956369</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	1.0									
Surr: Phenol-d5	0.310		1.000		31.0	25	108				

**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

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: 9/29/2020 Workorder: N042371  
 Rep sample Temp (Deg C): 4.4 IR Gun ID: 1  
 Temp Blank:  Yes  No  
 Carrier name: ASSET  
 Last 4 digits of Tracking No.: NA Packing Material Used: None  
 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?<br>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?<br>Was Client notified?                 | Yes <input type="checkbox"/><br>Yes <input type="checkbox"/> | No <input type="checkbox"/><br>No <input type="checkbox"/> | NA <input checked="" type="checkbox"/><br>NA <input checked="" type="checkbox"/> |

Comments: Received in Las Vegas Lab on 9/30/20 at 3.8 C, IR# 2 - GSO#2896

Checklist Completed By: EAR  9/30/20

Reviewed By:  9/30/2020

# ASSET Laboratories

## WORK ORDER Summary

30-Sep-20

**WorkOrder:** N042371

**Client ID:** CH2HI03

**Project:** SFPP Norwalk

**QC Level:** RTNE

**Date Received:** 9/29/2020

**Comments:** Report metals, TPH and VOC preliminary data on 24-hrTAT

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N042371-001A	EF-F09-29-20	9/29/2020 8:00:00 AM	10/1/2020	Water	EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	V-CA
N042371-001B	EFF-09-29-20		10/1/2020		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N042371-001C			10/1/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/1/2020		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/1/2020		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N042371-001D			10/1/2020			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/1/2020		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/1/2020		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/1/2020			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N042371-001E			10/5/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/5/2020		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N042371-001F			10/5/2020		SM 5210 B	BIOCHEMICAL OXYGEN DEMAND	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N042371-001G			10/5/2020		SM4500-NH3D	AMMONIA-N BY ION SELECTIVE ELECTRODE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N042371-002A	FOLDER	10/1/2020	10/1/2020		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			10/1/2020		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555  
www.gls-us.com

**Ship From**

ASSET LABORATORIES  
THAD MALIT  
11110 ARTESIA BLVD. SUITE B  
CERRITOS, CA 90703

Tracking #: 550612896

CPS

**Ship To**

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

LAS VEGAS

COD: \$0.00

Weight: 0 lb(s)

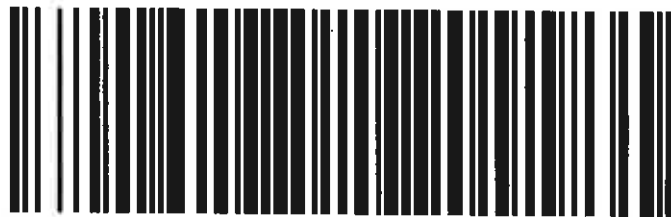
Reference:

**Delivery Instructions:**

HOLD FOR PICK UP

Signature Type: STANDARD

C89102A



27927266

LVS NV891-A 1

Print Date: 9/29/2020 4:27 PM

**LABEL INSTRUCTIONS:**

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

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

Step 2: Fold this page in half.

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

**TERMS AND CONDITIONS:**

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) 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.gls-us.com](http://www.gls-us.com).

8:26 am

IP# 2

3.8°C



Date of Report: 10/13/2020

Emil Angelo Rodriguez

Asset Laboratories, Inc.-Cerritos

11110 Artesia Blvd., Suite B

Cerritos, CA 90703

Client Project: N042371

BCL Project: Cerritos

BCL Work Order: 2028438

Invoice ID: B394577

Enclosed are the results of analyses for samples received by the laboratory on 9/30/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval

Client Service Rep

Stuart Buttram

Technical Director

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

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# CHAIN-OF-CUSTODY RECORD

20-28438

**ASSET Laboratories**

3151-3153 W Post Rd., Las Vegas, NV 89118  
www.ali-labs.com  
TEL: 7023072699 FAX: 7023072691



**Subcontractor:**

BC Labs  
4100 Atlas Court  
Bakersfield, CA 93308

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

QC Level: RTNE

Field Sampler:

29-Sep-20

Sample ID	Matrix	Date Collected	Bottle Type	SM 5210 B	Requested Tests
NM42371-001F / EFF09-29-20	Water	9/29/2020 8:00:00 AM	32OZP	1	SM4500-NH3D
NM42371-001G / EFF09-29-20	Water	9/29/2020 8:00:00 AM	16OZP		1

-10-9/20

SHORT HOLDING TIME  
 Cr<sup>6</sup> NO<sub>2</sub> NO<sub>3</sub> OP SS  
 DO Cl<sub>2</sub> SOD MBAS COT

DATE BY  
 CAPS DISTRIBUTION  
 SUB OUT

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com  
 PO#N42371A. Please email invoices & statements to elvira@assetlaboratories.com. For questions, call Emil Angelo Rodriguez at (562)-218-7435. RESULTS NEEDED: 10/7/20. EMAIL RESULTS TO: reports@assetlaboratories.com, sonny.lorenzo@assetlaboratories.com.

Please analyze samples for Ammonia and BOD. C150# 550612930

Relinquished by: <u>EMIL A</u>	Date/Time: <u>9/29/20 1408</u>
Received by: <u>[Signature]</u>	Date/Time: <u>9-30-20 955</u>

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 6 of 1

Submission #: 2028438

**SHIPPING INFORMATION**  
 Fed Ex  UPS  Ontrac  Hand Delivery   
 BC Lab Field Service  Other  (Specify) GLS

**SHIPPING CONTAINER**  
 Ice Chest  None  Box   
 Other  (Specify) \_\_\_\_\_

**FREE LIQUID**  
 YES  NO   
 W / S

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

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

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

COC Received  YES  NO  
 Emmissivity: 97 Container: PE Thermometer ID: 274 Date/Time: 9-30-20 9:55  
 Temperature: (A) 2.9 °C (C) 27 °C Analyst Init: TKJ

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 <sup>4</sup>										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS	A									
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTa PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/808										
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: Con 2 Date/Time: 9/30/20 1430 Rev 21 05/23/2016  
 = Actual / C = Corrected

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Asset Laboratories, Inc.-Cerritos  
11110 Artesia Blvd., Suite B  
Cerritos, CA 90703

**Reported:** 10/13/2020 11:28  
**Project:** Cerritos  
**Project Number:** N042371  
**Project Manager:** Emil Angelo Rodriguez

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2028438-01	<b>COC Number:</b>	---	<b>Receive Date:</b>	09/30/2020 09:55
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	09/29/2020 08:00
	<b>Sampling Location:</b>	NA	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	N042371-001F / EFF09-29-20	<b>Lab Matrix:</b>	Water
	<b>Sampled By:</b>	---	<b>Sample Type:</b>	Water
2028438-02	<b>COC Number:</b>	---	<b>Receive Date:</b>	09/30/2020 09:55
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	09/29/2020 08:00
	<b>Sampling Location:</b>	NA	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	N042371-001G / EFF09-29-20	<b>Lab Matrix:</b>	Water
	<b>Sampled By:</b>	---	<b>Sample Type:</b>	Water

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Asset Laboratories, Inc.-Cerritos  
11110 Artesia Blvd., Suite B  
Cerritos, CA 90703

**Reported:** 10/13/2020 11:28  
**Project:** Cerritos  
**Project Number:** N042371  
**Project Manager:** Emil Angelo Rodriguez

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 2028438-01	<b>Client Sample Name:</b> NA, N042371-001F / EFF09-29-20, 9/29/2020 8:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	SM17-5210B	10/01/20 06:30	10/01/20 06:30	HPR	YSIPRO	1.525	B088992	No Prep

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Asset Laboratories, Inc.-Cerritos  
11110 Artesia Blvd., Suite B  
Cerritos, CA 90703

**Reported:** 10/13/2020 11:28  
**Project:** Cerritos  
**Project Number:** N042371  
**Project Manager:** Emil Angelo Rodriguez

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 2028438-02	<b>Client Sample Name:</b> NA, N042371-001G / EFF09-29-20, 9/29/2020 8:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ammonia as N	0.096	mg/L	0.20	0.067	EPA-350.1	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-350.1	10/08/20 15:15	10/12/20 10:31	JMH2	SC-1	1.066	B089315	No Prep

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Asset Laboratories, Inc.-Cerritos  
11110 Artesia Blvd., Suite B  
Cerritos, CA 90703

**Reported:** 10/13/2020 11:28  
**Project:** Cerritos  
**Project Number:** N042371  
**Project Manager:** Emil Angelo Rodriguez

## Water Analysis (General Chemistry)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B088992</b>						
Biochemical Oxygen Demand - Seeded	B088992-BLK1	ND	mg/L	1.0	1.0	
<b>QC Batch ID: B089315</b>						
Ammonia as N	B089315-BLK1	ND	mg/L	0.20	0.067	

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Asset Laboratories, Inc.-Cerritos  
11110 Artesia Blvd., Suite B  
Cerritos, CA 90703

**Reported:** 10/13/2020 11:28  
Project: Cerritos  
Project Number: N042371  
Project Manager: Emil Angelo Rodriguez

## 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	Quals
								Percent Recovery	RPD		
<b>QC Batch ID: B088992</b>											
Biochemical Oxygen Demand - Seeded	B088992-BS1	LCS	194.82	198.00	mg/L	98.4		85	115		
<b>QC Batch ID: B089315</b>											
Ammonia as N	B089315-BS1	LCS	1.9392	2.0000	mg/L	97.0		90	110		

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Asset Laboratories, Inc.-Cerritos  
11110 Artesia Blvd., Suite B  
Cerritos, CA 90703

**Reported:** 10/13/2020 11:28  
**Project:** Cerritos  
**Project Number:** N042371  
**Project Manager:** Emil Angelo Rodriguez

## Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
<b>QC Batch ID: B088992</b>		Used client sample: N									
Biochemical Oxygen Demand - Seeded	DUP	2028392-01	4.4530	4.9003		mg/L	9.6		20		
<b>QC Batch ID: B089315</b>		Used client sample: N									
Ammonia as N	DUP	2027806-01	0.14139	0.13599		mg/L	3.9		10		J
	MS	2027806-01	0.14139	2.5208	2.2642	mg/L		105		90 - 110	
	MSD	2027806-01	0.14139	2.4130	2.2642	mg/L	4.4	100	10	90 - 110	

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Asset Laboratories, Inc.-Cerritos  
11110 Artesia Blvd., Suite B  
Cerritos, CA 90703

**Reported:** 10/13/2020 11:28  
**Project:** Cerritos  
**Project Number:** N042371  
**Project Manager:** Emil Angelo Rodriguez

**Notes And Definitions**

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

**Attachment B**  
**Data Quality Assurance/Quality Control**

## Data Quality Assurance/Quality Control

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

### Analytical Data

The data quality evaluation report covers three normal effluent samples. Samples were collected on July 23, August 14, and September 29, 2020. Analyses were performed by Asset Laboratories in Cerritos, California, Michelson Laboratories, Inc. In Commerce, California and BC Laboratories in Bakersfield, California. The sample results were reported as three sample delivery groups:

Sample Delivery Groups
N041547
N041853
N042371

Eleven methods were used to analyze the environmental samples. Samples were collected and submitted directly to the Asset Laboratories for analysis. Asset Laboratories was responsible for shipment of samples to all other laboratories. Samples were analyzed for one or more of the following analytes/method:

Parameter	Method
Turbidity	SM2130B
Total suspended solids	SM2540D
Settleable solids	SM2540F
Biochemical oxygen demand (BOD)	SM5210B
Oil and grease	E1664
Metals	EPA 200.8/EPA 245.1
Ammonia	EPA 350.1
Total petroleum hydrocarbons – gasoline, diesel and motor oil ranges	SW8015B
Volatile organic compounds	SW8260B
Phenol	SW8270C

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



flag is applied to the data and is the most conservative of the applied data validation flags. The final flag also includes blank sample impacts.

The data validation flags are as follows:

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

## Findings

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

### Holding Times

All holding time criteria were met.

### Method Blanks

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

- TPH-gasoline was detected less than the reporting limit (RL) in the method blanks for Method SW8015B. Three associated results were detected less than five times the blank concentrations and were qualified as not detected and flagged "U" in samples EFF-07-23-20, EFF-08-14-20 and EFF-09-29-20.
- TPH-diesel and total TPH were detected less than the RL in the method blanks for Method SW8015B. Six associated results were detected less than five times the blank concentrations and were qualified as not detected and flagged "U" in samples EFF-07-23-20, EFF-08-14-20 and EFF-09-29-20.
- 1,4-Dioxane was detected less than the RL in a method blank for Method SW8270C. One associated result was detected less than five times the blank concentration and was qualified as not detected and flagged "U" in sample EFF-08-14-20.

### Surrogates

All surrogate recovery criteria were met.

### Internal Standards

All internal standard criteria were met.

### Laboratory Control Samples

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

### **Matrix Spikes/Matrix Spike Duplicates**

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

The recovery of o-xylene was less than the lower control limit in the MS of sample EFF-09-29-20 for Method SW8260B, indicating the associated parent sample result is possibly biased low. The associated nondetected result was qualified as estimated and flagged "UJ.

### **Chain-of-Custody**

Each sample was documented in a completed COC and received at the laboratory in good condition.

### **Miscellaneous**

The BOD result for sample EFF-08-14-20 was erroneously high and a sample mix-up was suspected. Repeated requests for associated supporting raw data from Michelson Laboratories, Inc. were not fulfilled; the reported result could not be confirmed. The BOD result for sample EFF-08-14-20 was excluded for use.

### **Overall Assessment**

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

**Attachment C  
Waste Manifest**

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>C A T 0 8 0 0 3 3 9 6 2</b>		2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>800-624-9136</b>		4. Manifest Tracking Number <b>014823354 JJK</b>				
5. Generator's Name and Mailing Address <b>SFPP, L.P. Norwalk Station 1100 Town and Country Rd. Orange CA 92868</b>				Att: <i>Karina Hankins</i> <i>Nathaniel Cruse Jr.</i> Generator's Site Address (if different than mailing address) <b>SFPP, L.P. Norwalk Station 15306 Norwalk Blvd. Norwalk CA 90651</b>							
Generator's Phone: <b>7 1 4 5 6 0 - 4 8 8 7</b>				6. Transporter 1 Company Name <b>Patriot Environmental Services</b>							
				U.S. EPA ID Number <b>C A D 0 5 3 8 6 6 7 9 4</b>							
7. Transporter 2 Company Name				U.S. EPA ID Number							
8. Designated Facility Name and Site Address <b>DK DBA WORLD OIL RECYCLING 2000 N. ALAMEDA STREET COMPTON CA 90222</b>				U.S. EPA ID Number							
Facility's Phone: <b>310 537-7100</b>				<b>C A T 0 8 0 0 1 3 3 5 2</b>							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		<input checked="" type="checkbox"/> <b>1 UN1993, Flammable liquids, n.o.s. (Gasoline) 3, PGII</b>			No.	Type			<b>D001</b>	<b>D018</b>	<b>134</b>
		2.			<b>0 0 1</b>	<b>TT</b>	<b>1500</b>	<b>G</b>			
		3.									
		4.									
14. Special Handling Instructions and Additional Information <b>1) Gasoline ERG#128 Well Redevelopment Water Bill to SFPP, L.P. Attn: Steve Deflbaugh #456237</b> <b>Always wear appropriate PPE when handling waste. JOB# 01-20-00810</b>											
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 <b>JAMES DYE</b>				Signature <i>[Signature]</i>				Month Day Year <b>17 12 128</b>			
TRANSPORTER INT'L	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 signature (for exports only): _____										
TRANSPORTER	Transporter 1 Printed/Typed Name <b>Jorge A Deleon</b>				Signature <i>[Signature]</i>				Month Day Year <b>07 21 2020</b>		
	Transporter 2 Printed/Typed Name				Signature				Month Day Year		
DESIGNATED FACILITY	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										
	18b. Alternate Facility (or Generator) Manifest Reference Number: _____ 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.			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			