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KINDER MORGAN
ENERGY PARTNERS, L.P.

SFPP, L.P.
Operating Partnership

August 13, 2020

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

Re: Effluent Monitoring Report
April through June 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 Second 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 13 day of August 2020.
at 08:04 a.m.

_____ (signature)

Ryan Koch (printed name)

P.G. Specialist - Remediation (title)

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August 13, 2020

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

Subject: Effluent Monitoring Report, April 1 to June 30, 2020 (Second 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 April 1 to June 30, 2020. Kinder Morgan performed operations, 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 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 late-2020 or 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 late-2020 or 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 311,950 gallons of groundwater was extracted from the offsite/south-central area and southeastern area, treated, and discharged to Coyote Creek during the second 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 in the southeastern area. Table 1 summarizes the average daily flow rate during the reporting period. The GWTS operated part of the quarter, due to the following activities:

- The GWTS operated in recirculation mode from April 1 to Mary 14, 2020. The GWTS operated briefly on April 1, 16, and 17, 2020, for maintenance.
- On May 15, 2020, the GWTS was restarted after the baseline NSZD sampling event and the semiannual groundwater monitoring event were completed.

No free product accumulated in the product holding tank of the GWTS during the second quarter of 2020. In addition, hand bailing of free product was not performed during this reporting period due to COVID-19 pandemic social distancing requirements and limited onsite staff availability.

Routine Effluent Monitoring

During the second quarter 2020, effluent water samples were collected pursuant to the Waste Discharge Requirements (WDRs) under Order No. R4-2016-0309. Samples were collected at the Order-designated monitoring point EFF-001 (Remediation System Effluent) for monthly, quarterly, and annual analyses. Samples were also collected at RSW-001 (50 feet upstream of the discharge

into Coyote Creek) and RSW-002 (50 feet downstream of the discharge into Coyote Creek) for the annual analysis. A semiannual chronic toxicity analysis was also conducted on samples collected from EFF-001.

Effluent compliance samples were shipped to Asset Laboratories in Las Vegas, Nevada, for analysis. The samples were analyzed in accordance with current U.S. Environmental Protection Agency (EPA) methods or as specified in the WDRs for the site. The laboratory reports are included in Attachment A. A data quality assurance/quality control evaluation conducted by Jacobs is included in Attachment B.

Summary of Compliance Results

Monthly, Quarterly, and Annual 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 May and June 2020 effluent sampling events are summarized in Table 2. No samples were collected in April 2020, as the GWTS remained in recirculation mode. 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.

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 May 2020 sampling event (with maximum daily flows of 184 cfs) occurred during wet weather conditions. Therefore, analytical results for May 2020 are compared to the wet weather discharge limit, and analytical results for June 2020 (with maximum daily flows of 9.1 cfs) are compared to the dry weather discharge limit.

Analytical results for remaining priority pollutants at the effluent are summarized in Table 4. Results for priority pollutants at sample point RSW-001 and RSW-002 are summarized in Table 5. The tetrachlorodibenzo-p-dioxins (TCDD) equivalents for the effluent and receiving water samples (RSW-001 and RSW-002) are summarized in Table 6.

Toxicity Sampling

Effluent samples from station EFF-001 were collected for chronic toxicity testing on June 8, 11, and 12, 2020. Field measurement water quality parameters are presented in Table 7. The initial salinity measured at RSW-001 on June 3, 2020, was 0.9 part per thousand (ppt). All tests

were performed according to EPA methods (EPA, 2002). Results were evaluated with EPA's Test of Significant Toxicity to determine a "Pass" or "Fail" and percent effect (EPA, 2010).

The Fathead Minnows were not affected by the effluent water (that is, the results were "Pass") and demonstrated effluent compliance for toxicity (Table 8). Each of the toxicity tests met the acceptability criteria, and reference toxicity results were within the acceptable range of expected variability. The laboratory report and chain-of-custody documents for the effluent samples collected during the second quarter 2020 are included in Attachment A.

Waste Handling

No waste was generated or transported offsite during this reporting period.

Harbor Toxics Total Maximum Daily Load Monitoring

Water and sediment chemistry monitoring and sampling for toxic pollutants in the Dominguez Channel and 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) will be conducted prior to the end of the fourth quarter 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.

U.S. Environmental Protection Agency (EPA). 2002. *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, Fourth Edition. EPA-821-R-02-014.* October.

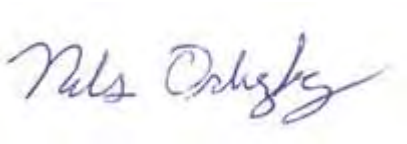
U.S. Environmental Protection Agency (EPA). 2010. *National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document. EPA 833-R-10-003.* June.

Jacobs

August 13, 2020
Subject: Effluent Monitoring Report, April 1 to June 30, 2020 (Second Quarter 2020)
SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California
(NPDES No. CA0063509, CI No. 7497, Order No. R4-2016-0309)

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

Yours sincerely



Nils Orliczky
Environmental Engineer

Attachments:

Table 1 – Effluent Flow Rate Measurements, Second Quarter 2020
Table 2 – NPDES Effluent Monitoring, Second Quarter 2020
Table 3 – Maximum Daily Flow in Coyote Creek, Second Quarter 2020
Table 4 – NPDES Effluent Monitoring, Remaining Priority Pollutants, Second Quarter 2020
Table 5 – NPDES Receiving Water Monitoring, RSW-001 (50 feet upstream) and RSW-002 (50 feet downstream), Second Quarter 2020
Table 6 – NPDES TCDD Equivalent Calculation, Second Quarter 2020
Table 7 – Water Quality Parameters for Coyote Creek and the Composite Chronic Toxicity Samples, Second Quarter 2020
Table 8 – NPDES Effluent Chronic Toxicity Monitoring, Second 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

Tables

Table 1. Effluent Flow Rate Measurements, Second Quarter 2020

SFPP Norwalk Pump Station, Norwalk, California

Date	Daily Flow Rate (gpd) (Maximum Daily Discharge Limit = 150,000 gpd[a])
04/01/20	0
04/02/20	0
04/03/20	0
04/04/20	0
04/05/20	0
04/06/20	0
04/07/20	0
04/08/20	0
04/09/20	0
04/10/20	0
04/11/20	0
04/12/20	0
04/13/20	0
04/14/20	0
04/15/20	260
04/16/20	816
04/17/20	0
04/18/20	0
04/19/20	0
04/20/20	0
04/21/20	0
04/22/20	0
04/23/20	0
04/24/20	0
04/25/20	0
04/26/20	0
04/27/20	0
04/28/20	0
04/29/20	0
04/30/20	0
05/01/20	0
05/02/20	0
05/03/20	0
05/04/20	0
05/05/20	0
05/06/20	0
05/07/20	0
05/08/20	0
05/09/20	0
05/10/20	0
05/11/20	0
05/12/20	0
05/13/20	0
05/14/20	0
05/15/20	1,584
05/16/20	8,564
05/17/20	8,596
05/18/20	8,864

Table 1. Effluent Flow Rate Measurements, Second Quarter 2020

SFPP Norwalk Pump Station, Norwalk, California

Date	Daily Flow Rate (gpd) (Maximum Daily Discharge Limit = 150,000 gpd[a])
05/19/20	8,604
05/20/20	8,708
05/21/20	8,300
05/22/20	8,952
05/23/20	8,404
05/24/20	8,608
05/25/20	8,584
05/26/20	8,592
05/27/20	8,348
05/28/20	7,268
05/29/20	8,148
05/30/20	8,032
05/31/20	7,396
06/01/20	7,336
06/02/20	6,688
06/03/20	6,256
06/04/20	6,200
06/05/20	5,612
06/06/20	5,728
06/07/20	5,372
06/08/20	5,756
06/09/20	5,056
06/10/20	5,384
06/11/20	5,328
06/12/20	5,672
06/13/20	5,944
06/14/20	5,788
06/15/20	5,744
06/16/20	5,372
06/17/20	5,756
06/18/20	5,056
06/19/20	5,384
06/20/20	5,328
06/21/20	5,672
06/22/20	5,944
06/23/20	5,788
06/24/20	5,744
06/25/20	5,802
06/26/20	5,808
06/27/20	5,814
06/28/20	5,820
06/29/20	5,826
06/30/20	5,832

Notes:

[a] California Regional Water Quality Control Board Waste Discharge Requirements.

gpd = gallons per day

Table 2. NPDES Effluent Monitoring, Second Quarter 2020

SFPP Norwalk Pump Station, Norwalk, California

Analyte	Sampling Frequency	Analytical Method	Units	MDL[a]	RL[a]	ML[b]	April 2020	5/21/2020	6/11/2020	Discharge Limits[c]	
										Monthly Average	Daily Maximum
Flow	Daily	--	gpd	--	--	--	--	**8,300**	**5,328**	--	**150,000**
TPH as Gasoline (C4-C12)	Monthly	EPA 8015B	µg/L	21	50	NE	NS	<30 [d]	<33 [d]	--	--
TPH as Diesel (C13-C22)	Monthly	EPA 8015B	µg/L	15	25	NE	NS	17 J	<15	--	--
TPH as Oil (C23+)	Monthly	EPA 8015B	µg/L	14	25	NE	NS	17 J	<14 [d]	--	--
Total TPH	Monthly	EPA 8015B	µg/L	21	100	NE	NS	34 J [e]	<21 [f]	--	**100**
Total TPH	Monthly	Calculated	lb/day	--	--	--	--	**0.002354**	**0.000467**	--	**0.13**
Benzene	Monthly	EPA 8260B	µg/L	0.11	1.0	2.0	NS	<0.11	<0.11	--	--
1,1-Dichloroethane	Monthly	EPA 8260B	µg/L	0.22	0.5	1.0	NS	<0.22	<0.22	--	--
1,2-Dichloroethane	Monthly	EPA 8260B	µg/L	0.16	0.5	2.0	NS	<0.16	<0.16	--	--
Ethylbenzene	Monthly	EPA 8260B	µg/L	0.11	1.0	2.0	NS	<0.11	<0.11	--	--
Phenol	Monthly	EPA 8270C	µg/L	0.33	1	1	NS	<0.33	<0.33	--	--
Toluene	Monthly	EPA 8260B	µg/L	0.13	2.0	2.0	NS	<0.13	<0.13	--	--
Methyl Tertiary Butyl Ether	Monthly	EPA 8260B	µg/L	0.44	1.0	NE	NS	<0.44	<0.44	--	--
Tertiary Butyl Alcohol	Monthly	EPA 8260B	µg/L	2.8	5.0	NE	NS	<2.8	<2.8	--	--
Total Xylenes	Monthly	EPA 8260B	µg/L	1.5	2.0	NE	NS	<1.5	<1.5	--	--
Copper (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.26	0.5	0.5	NS	--	<0.26	**9.7**	**32**
Copper (total recoverable) (dry weather)	Monthly	Calculated	lb/day	--	--	--	--	--	**0.000006**	**0.012**	**0.04**
Copper (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.26	0.5	0.5	NS	<0.26	--	**8.3**	**27**
Copper (total recoverable) (wet weather)	Monthly	Calculated	lb/day	--	--	--	--	**0.000009**	--	**0.010**	**0.034**
Lead (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.13	0.5	0.5	NS	<0.13	<0.13	**33**	**106**
Lead (total recoverable) (wet weather)	Monthly	Calculated	lb/day	--	--	--	--	0.000004	0.000003	**0.041**	**0.13**
Mercury (total recoverable)	Monthly	EPA 245.1	µg/L	0.018	0.05	0.2	NS	<0.018	<0.018	**0.051**	**0.10**
Mercury (total recoverable)	Monthly	Calculated	lb/day	--	--	--	--	0.000001	0	**0.000064**	**0.00013**
Zinc (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.27	1.0	1.0	NS	--	**3.4 J [g]**	**64**	**220**
Zinc (total recoverable) (dry weather)	Monthly	Calculated	lb/day	--	--	--	--	--	0.000151	**0.080**	**0.28**
Zinc (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.27	1.0	1.0	NS	<0.27	--	**46**	**158**
Zinc (total recoverable) (wet weather)	Monthly	Calculated	lb/day	--	--	--	--	0.000009	--	**0.058**	**0.2**
Biochemical Oxygen Demand	Quarterly	SM 5210B	mg/L	5	5	NE	--	--	<5	**20**	**30**
Biochemical Oxygen Demand	Quarterly	Calculated	lb/day	--	--	--	--	--	0.111089	**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	--	--	--	--	--	**0.111089**	**63**	**94**
pH	Quarterly	--	s.u.	0.1	0.1	NE	--	--	**6.77**	--	**6.5/8.5**
Oil and Grease	Quarterly	EPA 1664A	mg/L	0.69	4.7	NE	--	--	**1.3 J**	**10**	**15**
Oil and Grease	Quarterly	Calculated	lb/day	--	--	--	--	--	**0.057766**	**13**	**19**
Ammonia Nitrogen (as N)	Quarterly	SM 4500 NH3	mg/L	0.067	0.2	NE	--	--	**0.13 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	--	--	**0.28**	**50**	**75**
Salinity	2x/year	Field Measurement	ppt	--	--	NE	--	--	**1.2**	--	--
Chronic Toxicity	2x/year	--	--	--	--	NE	--	--	**Pass**	**Pass**	**Pass and % Effect <50**

Table 2. NPDES Effluent Monitoring, Second Quarter 2020

SFPP Norwalk Pump Station, Norwalk, California

Analyte	Sampling Frequency	Analytical Method	Units	MDL[a]	RL[a]	ML[b]	April 2020	5/21/2020	6/11/2020	Discharge Limits[c]	
										Monthly Average	Daily Maximum
Di-isopropyl Ether	Annually	EPA 8260B	µg/L	0.15	1	NE	--	--	<0.15	--	--
Methyl Ethyl Ketone	Annually	EPA 8260B	µg/L	4.7	10	NE	--	--	<4.7	--	--
Methylene Blue Active Substances	Annually	SM 5540C	mg/L	0.05	0.05	NE	--	--	<0.05	--	--
Nitrate + Nitrite as N	Annually	EPA 300.0	mg/L	0.025	0.5	NE	--	--	**0.3 J**	--	--
Sulfides	Annually	SM 4500 SD	mg/L	0.05	0.1	NE	--	--	<0.05	--	--
Tert Amyl Methyl Ether	Annually	EPA 8260B	µg/L	0.13	1	NE	--	--	<0.13	--	--
TCDD Equivalents	Annually	EPA 8290	pg/L	--	--	NE	--	--	**0.89**	--	--
Other Priority Pollutants	Annually	--	--	--	--	--	--	--	--	--	--

Notes:

[a] The highest MDL and RL during this reporting period are shown.

[b] 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.

[c] California Regional Water Quality Control Board Waste Discharge Requirements (WDRs) under Order No. R4-2016-0309.

[d] Data were qualified as nondetect due to validation review.

[e] Result was reduced because TPH-gasoline result qualified as nondetect due to validation review.

[f] Total TPH is ND at the MDL since all TPH components are ND.

[g] Result "J" flagged per validation review.

[h] Surrogate recovery was less than the lower control limit, and sample result is possibly biased low. The nondetect result was qualified as estimated and "J".

-- = 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

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, Second Quarter 2020

SFPP Norwalk Pump Station, Norwalk, California

Date	Maximum Daily Flow Rate (cfs)[a]	Comments
04/01/20	115	Treatment system remains in recirculation mode
04/02/20	120	
04/03/20	16.5	
04/04/20	29.3	
04/05/20	176	
04/06/20	4,210	
04/07/20	2,150	
04/08/20	507	
04/09/20	3,400	
04/10/20	2,280	
04/11/20	188	
04/12/20	176	
04/13/20	138	
04/14/20	166	
04/15/20	188	
04/16/20	97.5	
04/17/20	111	
04/18/20	174	
04/19/20	164	
04/20/20	138	
04/21/20	188	
04/22/20	188	
04/23/20	182	
04/24/20	214	
04/25/20	738	
04/26/20	576	
04/27/20	297	
04/28/20	380	
04/29/20	1,560	
04/30/20	428	
05/01/20	245	
05/02/20	352	
05/03/20	525	
05/04/20	892	
05/05/20	162	
05/06/20	214	
05/07/20	454	
05/08/20	1,020	
05/09/20	286	
05/10/20	234	
05/11/20	33.8	
05/12/20	30.8	
05/13/20	132	
05/14/20	136	
05/15/20	148	Started treatment system
05/16/20	86.6	
05/17/20	130	
05/18/20	634	
05/19/20	116	
05/20/20	90	
05/21/20	184	Monthly effluent sample
05/22/20	176	
05/23/20	116	

Table 3. Maximum Daily Flow in Coyote Creek, Second Quarter 2020

SFPP Norwalk Pump Station, Norwalk, California

Date	Maximum Daily Flow Rate (cfs)[a]	Comments
05/24/20	138	
05/25/20	109	
05/26/20	116	
05/27/20	25	
05/28/20	35.4	
05/29/20	33.8	
05/30/20	25.2	
05/31/20	35.4	
06/01/20	43.3	
06/02/20	44.8	
06/03/20	48.0	
06/04/20	41.9	
06/05/20	25.2	
06/06/20	83.1	
06/07/20	154	
06/08/20	130	Semiannual effluent toxicity sample
06/09/20	95.7	
06/10/20	44.8	
06/11/20	9.02	Annual effluent sample, semiannual effluent toxicity sample
06/12/20	7.12	Semiannual effluent toxicity sample
06/13/20	7.12	
06/14/20	46.4	
06/15/20	64.3	
06/16/20	16.5	
06/17/20	23.6	
06/18/20	79.7	
06/19/20	124	
06/20/20	109	
06/21/20	184	
06/22/20	180	
06/23/20	115	
06/24/20	134	
06/25/20	156	
06/26/20	134	
06/27/20	150	
06/28/20	156	
06/29/20	180	
06/30/20	174	

Notes:

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

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

cfs = cubic feet per second

Table 4. NPDES Effluent Monitoring, Remaining Priority Pollutants, Second Quarter 2020

SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	6/11/2020	ML[a]
Antimony	EPA 200.8	µg/L	0.16	0.5	**0.49 J**	**0.50**
Arsenic	EPA 200.8	µg/L	0.081	0.1	**14**	**2**
Beryllium	EPA 200.8	µg/L	0.042	0.50	<0.042	**0.50**
Cadmium	EPA 200.8	µg/L	0.053	0.25	<0.053	**0.25**
Chromium (III) (Total Cr - Cr VI)	CALCCR3	µg/L	0.13	0.50	**0.13**	**NA**
Total Chromium	EPA 200.8	µg/L	0.13	0.50	<0.13	**0.5**
Chromium VI	EPA 7199	µg/L	0.033	0.20	<0.033	**0.5**
Selenium	EPA 200.8	µg/L	0.36	0.50	**0.87**	**2.0**
Thallium	EPA 200.8	µg/L	0.19	0.50	<0.19	**1.0**
Nickel	EPA 200.8	µg/L	0.26	1.0	<0.26 J	**1**
Silver	EPA 200.8	µg/L	0.23	0.25	<0.23	**0.25**
Aroclor-1016	EPA 608	µg/L	0.014	0.04	<0.014	**0.5**
Aroclor-1221	EPA 608	µg/L	0.013	0.04	<0.013	**0.5**
Aroclor-1232	EPA 608	µg/L	0.012	0.04	<0.012	**0.5**
Aroclor-1242	EPA 608	µg/L	0.0074	0.04	<0.0074	**0.5**
Aroclor-1248	EPA 608	µg/L	0.0088	0.04	<0.0088	**0.5**
Aroclor-1254	EPA 608	µg/L	0.0074	0.04	<0.0074	**0.5**
Aroclor-1260	EPA 608	µg/L	0.018	0.04	<0.018	**0.5**
4,4'-DDD	EPA 608	µg/L	0.00018	0.001	<0.00018	**0.05**
4,4'-DDE	EPA 608	µg/L	0.00025	0.001	**0.00043 J**	**0.05**
4,4'-DDT	EPA 608	µg/L	0.00019	0.001	<0.00019	**0.01**
Aldrin	EPA 608	µg/L	0.00019	0.001	<0.00019	**0.005**
Alpha Endosulfan	EPA 608	µg/L	0.00014	0.001	<0.00014	**0.02**
Alpha-BHC	EPA 608	µg/L	0.0001	0.001	<0.0001	**0.01**
Beta Endosulfan	EPA 608	µg/L	0.0002	0.001	<0.0002	**0.01**
Beta-BHC	EPA 608	µg/L	0.00013	0.001	<0.00013	**0.005**
Chlordane	EPA 608	µg/L	0.0089	0.10	<0.0089	**0.1**
Delta-BHC	EPA 608	µg/L	0.0003	0.001	<0.0003	**0.005**
Dieldrin	EPA 608	µg/L	0.00022	0.001	<0.00022	**0.01**
Endosulfan Sulfate	EPA 608	µg/L	0.00011	0.001	<0.00011	**0.05**
Endrin	EPA 608	µg/L	0.00014	0.001	<0.00014	**0.01**
Endrin Aldehyde	EPA 608	µg/L	0.00011	0.002	<0.00011	**0.01**
Gamma-BHC	EPA 608	µg/L	0.00014	0.001	<0.00014	**0.02**
Heptachlor	EPA 608	µg/L	0.00019	0.001	<0.00019	**0.01**
Heptachlor Epoxide	EPA 608	µg/L	0.00013	0.001	<0.00013	**0.01**
Toxaphene	EPA 608	µg/L	0.04	0.40	<0.04	**0.5**
1,1,1-Trichloroethane	EPA 8260B	µg/L	0.20	1.0	<0.2	**2**
1,1,2,2-Tetrachloroethane	EPA 8260B	µg/L	0.11	1.0	<0.11	**1**
1,1,2-Trichloroethane	EPA 8260B	µg/L	0.23	1.0	<0.23	**2**
1,1-Dichloroethene	EPA 8260B	µg/L	0.17	1.0	<0.17	**2**
1,2,4-Trichlorobenzene	EPA 8260B	µg/L	0.10	1.0	<0.1	**5**
1,2-Dichlorobenzene	EPA 8260B	µg/L	0.089	1.0	<0.089	**2**
1,2-Dichloropropane	EPA 8260B	µg/L	0.16	1.0	<0.16	**1**
1,3-Dichlorobenzene	EPA 8260B	µg/L	0.081	1.0	<0.081	**1**
1,4-Dichlorobenzene	EPA 8260B	µg/L	0.08	1.0	<0.08	**1**
2-Chloroethyl Vinyl Ether	EPA 8260B	µg/L	0.29	1.0	<0.29	**1**
Acrolein	EPA 8260B	µg/L	2.5	5.0	<2.5	**5**
Acrylonitrile	EPA 8260B	µg/L	1.0	2.0	<1.0	**2**
Bromodichloromethane	EPA 8260B	µg/L	0.20	1.0	<0.20	**2**
Bromoform	EPA 8260B	µg/L	0.23	1.0	<0.23	**2**
Bromomethane	EPA 8260B	µg/L	0.38	1.0	<0.38	**2**
cis-1,3-Dichloropropene	EPA 8260B	µg/L	0.16	1.0	<0.16	**2**
Carbon Tetrachloride	EPA 8260B	µg/L	0.33	0.5	<0.33	**2**
Chlorobenzene	EPA 8260B	µg/L	0.11	1.0	<0.11	**2**
Chloroethane	EPA 8260B	µg/L	0.69	1.0	<0.69	**2**

Table 4. NPDES Effluent Monitoring, Remaining Priority Pollutants, Second Quarter 2020
SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	6/11/2020	ML[a]
Chloroform	EPA 8260B	µg/L	0.38	1.0	<0.38	**2**
Chloromethane	EPA 8260B	µg/L	0.23	1.0	<0.23	**2**
Dibromochloromethane	EPA 8260B	µg/L	0.23	1.0	<0.23	**2**
Hexachlorobutadiene	EPA 8260B	µg/L	0.30	1.0	<0.30	**1**
Methylene Chloride	EPA 8260B	µg/L	1.2	2.0	<1.2	**2**
Naphthalene	EPA 8260B	µg/L	0.41	1.0	<0.41	**1**
trans-1,2-Dichloroethene	EPA 8260B	µg/L	0.27	1.0	<0.27	**1**
trans-1,3-Dichloropropene	EPA 8260B	µg/L	0.12	1.0	<0.12	**2**
Tetrachloroethene	EPA 8260B	µg/L	0.25	1.0	<0.25	**2**
Trichloroethene	EPA 8260B	µg/L	0.26	1.0	<0.26	**2**
Vinyl Chloride	EPA 8260B	µg/L	0.19	0.5	<0.19	**2**
1,2-Diphenylhydrazine	EPA 625	µg/L	0.44	1.0	<0.44	**1**
2,4,6-Trichlorophenol	EPA 625	µg/L	0.34	5.0	<0.34	**10**
2,4-Dichlorophenol	EPA 625	µg/L	0.26	1.0	<0.26	**5**
2,4-Dimethylphenol	EPA 625	µg/L	0.30	1.0	<0.30	**2**
2,4-Dinitrophenol	EPA 625	µg/L	0.37	5.0	<0.37	**5**
2,4-Dinitrotoluene	EPA 625	µg/L	0.87	2.0	<0.87	**5**
2,6-Dinitrotoluene	EPA 625	µg/L	0.46	2.0	<0.46	**5**
2-Chloronaphthalene	EPA 625	µg/L	0.23	2.0	<0.23	**10**
2-Chlorophenol	EPA 625	µg/L	0.85	2.0	<0.85	**5**
2-Nitrophenol	EPA 625	µg/L	0.39	2.0	<0.39	**10**
3,3'-Dichlorobenzidine	EPA 625	µg/L	0.41	5.0	<0.41	**5**
4,6-Dinitro-2-Methylphenol	EPA 625	µg/L	0.43	5.0	<0.43	**5**
4-Bromophenyl-Phenyl Ether	EPA 625	µg/L	0.20	2.0	<0.20	**5**
4-Chloro-3-Methylphenol	EPA 625	µg/L	0.42	1.0	<0.42	**1**
4-Chlorophenyl-Phenyl Ether	EPA 625	µg/L	0.20	2.0	<0.20	**5**
4-Nitrophenol	EPA 625	µg/L	0.66	2.0	<0.66	**10**
Acenaphthene	EPA 625	µg/L	0.22	1.0	<0.22	**1**
Acenaphthylene	EPA 625	µg/L	0.20	2.0	<0.20	**10**
Anthracene	EPA 625	µg/L	0.20	2.0	<0.20	**10**
Benzidine	EPA 625	µg/L	3.0	5.3	<3.0	**5**
Benzo (a) Anthracene	EPA 625	µg/L	0.30	2.0	<0.3	**5**
Benzo (a) Pyrene	EPA 625	µg/L	0.21	2.0	<0.21	**10**
Benzo (b) Fluoranthene	EPA 625	µg/L	0.42	2.0	<0.42	**10**
Benzo (g,h,i) Perylene	EPA 625	µg/L	0.48	2.0	<0.48	**5**
Benzo (k) Fluoranthene	EPA 625	µg/L	0.29	2.0	<0.29	**10**
Bis(2-Chloroethoxy) Methane	EPA 625	µg/L	0.27	2.0	<0.27	**5**
Bis(2-Chloroethyl) Ether	EPA 625	µg/L	0.86	1.0	<0.86	**1**
Bis(2-Chloroisopropyl) Ether	EPA 625	µg/L	1.7	2.0	<1.7	**2**
Bis(2-Ethylhexyl) Phthalate	EPA 625	µg/L	0.20	3.0	<0.20	**5**
Butyl Benzyl Phthalate	EPA 625	µg/L	0.26	2.0	<0.26	**10**
Chrysene	EPA 625	µg/L	0.26	2.0	<0.26	**10**
Dibenz (a,h) Anthracene	EPA 625	µg/L	0.59	3.0	<0.59	**10**
Diethyl Phthalate	EPA 625	µg/L	0.20	2.0	<0.2	**2**
Dimethyl Phthalate	EPA 625	µg/L	0.25	2.0	<0.25	**2**
Di-n-Butyl Phthalate	EPA 625	µg/L	0.20	2.0	<0.20	**10**
Di-n-Octyl Phthalate	EPA 625	µg/L	0.31	2.0	<0.31	**10**
Fluoranthene	EPA 625	µg/L	0.41	1.0	<0.41	**1**
Fluorene	EPA 625	µg/L	0.20	2.0	<0.20	**10**
Hexachlorobenzene	EPA 625	µg/L	0.23	1.0	<0.23	**1**
Hexachlorocyclopentadiene	EPA 625	µg/L	0.35	1.0	<0.35	**5**
Hexachloroethane	EPA 625	µg/L	0.057	1.0	<0.057	**1**
Indeno (1,2,3-c,d) Pyrene	EPA 625	µg/L	0.71	2.0	<0.71	**10**
Isophorone	EPA 625	µg/L	0.41	1.0	<0.41	**1**

Table 4. NPDES Effluent Monitoring, Remaining Priority Pollutants, Second Quarter 2020
SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	6/11/2020	ML[a]
Nitrobenzene	EPA 625	µg/L	0.39	1.0	<0.39	**1**
N-Nitrosodimethylamine	EPA 625	µg/L	0.56	2.0	<0.56	**5**
N-Nitroso-di-n-propylamine	EPA 625	µg/L	0.56	2.0	<0.56	**5**
N-Nitrosodiphenylamine	EPA 625	µg/L	0.27	1.0	<0.27	**1**
Pentachlorophenol	EPA 625	µg/L	0.43	1.0	<0.43	**5**
Phenanthrene	EPA 625	µg/L	0.20	2.0	<0.20	**5**
Pyrene	EPA 625	µg/L	0.31	2.0	<0.31	**10**
2,3,7,8-TCDD	EPA 8290	pg/L	0.71	11	<0.71	**NE**
Asbestos	EPA 600 94 134, 100.2	MFL	0.20	0.20	<0.20	**NE**
Cyanide (Total)	EPA 335.4	mg/L	0.0017	0.005	<0.0017	**NE**

Notes:
[a] ML is the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point.
It is also the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method-specified sample weights, volumes, and processing steps have been followed.
< = not detected above the MDL
µg/L = micrograms per liter
J = detected at a concentration below the RL and above the MDL; reported value is estimated
MDL = laboratory method detection limit
MFL = million fibers per liter
mg/L = milligrams per liter
ML = minimum level (see note a)
NE = not established
NPDES = National Pollutant Discharge Elimination System
pg/L = picograms per liter
RL = laboratory reporting limit
TCDD = tetrachlorodibenzodioxin

Table 5. NPDES Receiving Water Monitoring, RSW-001 (50 feet upstream) and RSW-002 (50 feet downstream), Second Quarter 2020

SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	RSW-001 6/11/2020	RSW-002 6/11/2020	ML[a]
pH	SM 4500 HB	s.u.	--	--	**8.57**	**8.84**	**NE**
Temperature	Temperature	°F	--	--	**79.7**	**79.7**	**NE**
Hardness (as CaCO3)	SM 2340B	mg/L	1.0	1.0	**240**	**250**	**NE**
2,3,7,8-TCDD	EPA 8290	pg/L	1.1	11	<1.1	<0.78	**NE**
Arsenic	EPA 200.8	µg/L	0.081	0.10	**3.3**	**3.3**	**2**
Lead	EPA 200.8	µg/L	0.13	0.50	**0.83**	**1.1**	**0.5**
Aroclor-1016	EPA 608	µg/L	0.014	0.04	<0.014	<0.014	**0.5**
Aroclor-1221	EPA 608	µg/L	0.013	0.0	<0.013	<0.013	**0.5**
Aroclor-1232	EPA 608	µg/L	0.012	0.04	<0.012	<0.012	**0.5**
Aroclor-1242	EPA 608	µg/L	0.0074	0.04	<0.0074	<0.0074	**0.5**
Aroclor-1248	EPA 608	µg/L	0.0088	0.04	<0.0088	<0.0088	**0.5**
Aroclor-1254	EPA 608	µg/L	0.0074	0.04	<0.0074	<0.0074	**0.5**
Aroclor-1260	EPA 608	µg/L	0.018	0.04	<0.018	<0.018	**0.5**
Cadmium	EPA 200.8	µg/L	0.053	0.25	**0.13 J**	**0.14 J**	**0.25**
Mercury	EPA 245.1	µg/L	0.018	0.05	<0.018	<0.018	**0.2**
Antimony	EPA 200.8	µg/L	0.16	0.50	**0.74**	**0.73**	**0.50**
Beryllium	EPA 200.8	µg/L	0.042	0.50	<0.042	<0.042	**0.50**
Total Chromium	EPA 200.8	µg/L	0.13	0.50	**0.86**	**0.83**	**0.50**
Chromium (III) (Total Cr - Cr VI)	CALCCR3	µg/L	0.13	0.50	**0.67 J**	**0.62**	**NA**
Copper	EPA 200.8	µg/L	0.26	0.50	**4.9**	**5.5**	**0.5**
Nickel	EPA 200.8	µg/L	0.26	1.0	<0.26	<0.26	**1**
Selenium	EPA 200.8	µg/L	0.36	0.50	**2.4**	**2.6**	**2.0**
Silver	EPA 200.8	µg/L	0.230	0.25	<0.23	<0.23	**0.25**
Thallium	EPA 200.8	µg/L	0.19	0.5	<0.19	<0.19	**1.0**
Zinc	EPA 200.8	µg/L	0.27	1.0	**12**	**15**	**1.0**
Chromium (VI)	EPA 7199	µg/L	0.033	0.20	**0.19 J**	**0.21**	**0.5**
4,4'-DDD	EPA 608	µg/L	0.00018	0.001	<0.00018	**0.0022**	**0.05**
4,4'-DDE	EPA 608	µg/L	0.00025	0.001	<0.00025	<0.00025	**0.05**
4,4'-DDT	EPA 608	µg/L	0.00019	0.001	**0.0048**	**0.0045**	**0.01**
Aldrin	EPA 608	µg/L	0.00019	0.001	<0.00019	<0.00019	**0.005**
Alpha Endosulfan	EPA 608	µg/L	0.0001	0.001	<0.00014	<0.00014	**0.02**
Alpha-BHC	EPA 608	µg/L	0.0001	0.001	<0.0001	<0.0001	**0.01**
Beta Endosulfan	EPA 608	µg/L	0.0002	0.001	<0.0002	<0.0002	**0.01**
Beta-BHC	EPA 608	µg/L	0.00013	0.001	<0.00013	<0.00013	**0.005**
Chlordane	EPA 608	µg/L	0.0089	0.10	<0.0089	<0.0089	**0.1**
Delta-BHC	EPA 608	µg/L	0.0003	0.001	<0.0003	<0.0003	**0.005**
Dieldrin	EPA 608	µg/L	0.00022	0.001	<0.00022	<0.00022	**0.01**
Endosulfan Sulfate	EPA 608	µg/L	0.00011	0.001	<0.00011	<0.00011	**0.05**

Table 5. NPDES Receiving Water Monitoring, RSW-001 (50 feet upstream) and RSW-002 (50 feet downstream), Second Quarter 2020
SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	RSW-001 6/11/2020	RSW-002 6/11/2020	ML[a]
Endrin	EPA 608	µg/L	0.00014	0.001	<0.00014	<0.00014	**0.01**
Endrin Aldehyde	EPA 608	µg/L	0.00011	0.002	<0.00011	<0.00011	**0.01**
Gamma-BHC	EPA 608	µg/L	0.00014	0.001	<0.00014	<0.00014	**0.02**
Heptachlor	EPA 608	µg/L	0.00019	0.001	<0.00019	<0.00019	**0.01**
Heptachlor Epoxide	EPA 608	µg/L	0.00013	0.001	<0.00013	<0.00013	**0.01**
Toxaphene	EPA 608	µg/L	0.040	0.40	<0.040	<0.040	**0.5**
1,1,1-Trichloroethane	EPA 8260B	µg/L	0.20	1.0	<0.20	<0.20	**2**
1,1,2,2-Tetrachloroethane	EPA 8260B	µg/L	0.11	1.0	<0.11	<0.11	**1**
1,1,2-Trichloroethane	EPA 8260B	µg/L	0.23	1.0	<0.23	<0.23	**2**
1,1-Dichloroethane	EPA 8260B	µg/L	0.22	0.50	<0.22	<0.22	**1.0**
1,1-Dichloroethene	EPA 8260B	µg/L	0.17	1.0	<0.17	<0.17	**2**
1,2,4-Trichlorobenzene	EPA 8260B	µg/L	0.10	1.0	<0.10	<0.10	**5**
1,2-Dichlorobenzene	EPA 8260B	µg/L	0.089	1.0	<0.089	<0.089	**2**
1,2-Dichloroethane	EPA 8260B	µg/L	0.16	0.50	<0.16	<0.16	**2.0**
1,2-Dichloropropane	EPA 8260B	µg/L	0.16	1.0	<0.16	<0.16	**1**
1,3-Dichlorobenzene	EPA 8260B	µg/L	0.081	1.0	<0.081	<0.081	**1**
1,4-Dichlorobenzene	EPA 8260B	µg/L	0.080	1.0	<0.080	<0.080	**1**
2-Chloroethyl Vinyl Ether	EPA 8260B	µg/L	0.29	1.0	<0.29	<0.29	**1**
Acrolein	EPA 8260B	µg/L	2.5	5.0	<2.5	<2.5	**5**
Acrylonitrile	EPA 8260B	µg/L	1.0	2.0	<1.0	<1.0	**2**
Benzene	EPA 8260B	µg/L	0.11	1.0	<0.11	<0.11	**2.0**
Bromodichloromethane	EPA 8260B	µg/L	0.20	1.0	<0.20	<0.20	**2**
Bromoform	EPA 8260B	µg/L	0.23	1.0	<0.23	<0.23	**2**
Bromomethane	EPA 8260B	µg/L	0.38	1.0	<0.38	<0.38	**2**
cis-1,3-Dichloropropene	EPA 8260B	µg/L	0.16	1.0	<0.16	<0.16	**2**
Carbon Tetrachloride	EPA 8260B	µg/L	0.33	0.50	<0.33	<0.33	**2**
Chlorobenzene	EPA 8260B	µg/L	0.11	1.0	<0.11	<0.11	**2**
Chloroethane	EPA 8260B	µg/L	0.69	1.0	<0.69	<0.69	**2**
Chloroform	EPA 8260B	µg/L	0.38	1.0	<0.38	<0.38	**2**
Chloromethane	EPA 8260B	µg/L	0.23	1.0	<0.23	<0.23	**2**
Dibromochloromethane	EPA 8260B	µg/L	0.23	1.0	<0.23	<0.23	**2**
Ethylbenzene	EPA 8260B	µg/L	0.11	1.0	<0.11	<0.11	**2.0**
Hexachlorobutadiene	EPA 8260B	µg/L	0.30	1.0	<0.30	<0.30	**1**
Hexachlorobenzene	EPA 625	µg/L	2.3	10	<2.3	<2.3	**1**
Hexachloroethane	EPA 625	µg/L	0.57	10	<0.57	<0.57	**1**
Methylene Chloride	EPA 8260B	µg/L	1.2	2.0	<1.2	<1.2	**2**
Naphthalene	EPA 8260B	µg/L	0.41	1.0	<0.41	<0.41	**1**
trans-1,2-Dichloroethene	EPA 8260B	µg/L	0.27	1.0	<0.27	<0.27	**1**

Table 5. NPDES Receiving Water Monitoring, RSW-001 (50 feet upstream) and RSW-002 (50 feet downstream), Second Quarter 2020
SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	RSW-001 6/11/2020	RSW-002 6/11/2020	ML[a]
trans-1,3-Dichloropropene	EPA 8260B	µg/L	0.12	1.0	<0.12	<0.12	**2**
Tetrachloroethene	EPA 8260B	µg/L	0.25	1.0	<0.25	<0.25	**2**
Toluene	EPA 8260B	µg/L	0.13	2.0	<0.13	<0.13	**2.0**
Trichloroethene	EPA 8260B	µg/L	0.26	1.0	<0.26	<0.26	**2**
Vinyl Chloride	EPA 8260B	µg/L	0.19	0.50	<0.19	<0.19	**2**
1,2-Diphenylhydrazine	EPA 625	µg/L	4.4	10	<4.4	<4.4	**1**
2,4,6-Trichlorophenol	EPA 625	µg/L	3.4	50	<3.4	<3.4	**10**
2,4-Dichlorophenol	EPA 625	µg/L	2.6	10	<2.6	<2.6	**5**
2,4-Dimethylphenol	EPA 625	µg/L	3.0	10	<3.0	<3.0	**2**
2,4-Dinitrophenol	EPA 625	µg/L	3.7	50	<3.7	<3.7	**5**
2,4-Dinitrotoluene	EPA 625	µg/L	8.7	20	<8.7	<8.7	**5**
2,6-Dinitrotoluene	EPA 625	µg/L	4.6	20	<4.6	<4.6	**5**
2-Chloronaphthalene	EPA 625	µg/L	2.3	20	<2.3	<2.3	**10**
2-Chlorophenol	EPA 625	µg/L	8.5	20	<8.5	<8.5	**5**
2-Nitrophenol	EPA 625	µg/L	3.9	20	<3.9	<3.9	**10**
3,3'-Dichlorobenzidine	EPA 625	µg/L	4.1	50	<4.1	<4.1	**5**
4,6-Dinitro-2-Methylphenol	EPA 625	µg/L	4.3	50	<4.3	<4.3	**5**
4-Bromophenyl-Phenyl Ether	EPA 625	µg/L	2.0	20	<2.0	<2.0	**5**
4-Chloro-3-Methylphenol	EPA 625	µg/L	4.2	10	<4.2	<4.2	**1**
4-Chlorophenyl-Phenyl Ether	EPA 625	µg/L	2.0	20	<2.0	<2.0	**5**
4-Nitrophenol	EPA 625	µg/L	6.6	20	<6.6	<6.6	**10**
Acenaphthene	EPA 625	µg/L	2.2	10	<2.2	<2.2	**1**
Acenaphthylene	EPA 625	µg/L	2.0	20	<2.0	<2.0	**10**
Anthracene	EPA 625	µg/L	2.0	20	<2.0	<2.0	**10**
Benzidine	EPA 625	µg/L	30	53	<30	<30	**5**
Benzo (a) Anthracene	EPA 625	µg/L	3.0	20	<3.0	<3.0	**5**
Benzo (a) Pyrene	EPA 625	µg/L	2.1	20	<2.1	<2.1	**10**
Benzo (b) Fluoranthene	EPA 625	µg/L	4.2	20	<4.2	<4.2	**10**
Benzo (g,h,i) Perylene	EPA 625	µg/L	4.8	20	<4.8	<4.8	**5**
Benzo (k) Fluoranthene	EPA 625	µg/L	2.9	20	<2.9	<2.9	**10**
Bis(2-Chloroethoxy) Methane	EPA 625	µg/L	2.7	20	<2.7	<2.7	**5**
Bis(2-Chloroethyl) Ether	EPA 625	µg/L	8.6	10	<8.6	<8.6	**1**
Bis(2-Chloroisopropyl) Ether	EPA 625	µg/L	17	20	<17	<17	**2**
Bis(2-Ethylhexyl) Phthalate	EPA 625	µg/L	2.0	30	<2.0	<2.0	**5**
Butyl Benzyl Phthalate	EPA 625	µg/L	2.6	20	<2.6	<2.6	**10**
Chrysene	EPA 625	µg/L	2.6	20	<2.6	<2.6	**10**
Dibenz (a,h) Anthracene	EPA 625	µg/L	5.9	30	<5.9	<5.9	**10**
Diethyl Phthalate	EPA 625	µg/L	2.0	20	<2.0	<2.0	**2**

Table 5. NPDES Receiving Water Monitoring, RSW-001 (50 feet upstream) and RSW-002 (50 feet downstream), Second Quarter 2020
SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	RSW-001 6/11/2020	RSW-002 6/11/2020	ML[a]
Dimethyl Phthalate	EPA 625	µg/L	2.5	20	<2.5	<2.5	**2**
Di-n-Butyl Phthalate	EPA 625	µg/L	2.0	20	<2.0	<2.0	**10**
Di-n-Octyl Phthalate	EPA 625	µg/L	3.1	20	<3.1	<3.1	**10**
Fluoranthene	EPA 625	µg/L	4.1	10	<4.1	<4.1	**1**
Fluorene	EPA 625	µg/L	2.0	20	<2.0	<2.0	**10**
Hexachlorocyclopentadiene	EPA 625	µg/L	3.5	10	<3.5	<3.5	**5**
Indeno (1,2,3-c,d) Pyrene	EPA 625	µg/L	7.1	20	<7.1	<7.1	**10**
Isophorone	EPA 625	µg/L	4.1	10	<4.1	<4.1	**1**
Nitrobenzene	EPA 625	µg/L	3.9	10	<3.9	<3.9	**1**
N-Nitrosodimethylamine	EPA 625	µg/L	5.6	20	<5.6	<5.6	**5**
N-Nitroso-di-n-propylamine	EPA 625	µg/L	5.6	20	<5.6	<5.6	**5**
N-Nitrosodiphenylamine	EPA 625	µg/L	2.7	10	<2.7	<2.7	**1**
Pentachlorophenol	EPA 625	µg/L	4.3	10	<4.3	<4.3	**5**
Phenanthrene	EPA 625	µg/L	2.0	20	<2.0	<2.0	**5**
Phenol	EPA 625	µg/L	8.4	10	<8.4	<8.4	**1**
Pyrene	EPA 625	µg/L	3.1	20	<3.1	<3.1	**10**
Cyanide (Total)	EPA 335.4	mg/L	0.0017	0.005	<0.0017	<0.0017	**NE**
Asbestos	EPA 600 94 134, 100.2	MFL	0.2	0.2	**1**	**1**	**NE**
Salinity	SM 2520B	ppt	--	--	**0.8**	**0.8**	**NE**

Notes:

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

< = not detected above the MDL
µg/L = micrograms per liter
J = detected at a concentration below the RL and above the MDL; reported value is estimated
MDL = laboratory method detection limit
MFL = million fibers per liter
mg/L = milligrams per liter
ML = minimum level (see note a)
NE = not established
NPDES = National Pollutant Discharge Elimination System
pg/L = picograms per liter
ppt = parts per thousand
RL = laboratory reporting limit
TCDD = tetrachlorodibenzodioxin

Table 6. NPDES TCDD Equivalent Calculation, Second Quarter 2020

SFPP Norwalk Pump Station, Norwalk, California

Dioxin or Furan Congener [a]	Analysis Method	Units	Effluent Concentration (6/11/20)[b]	Receiving Water (RSW-001) Concentration (6/11/20)[b]	Receiving Water (RSW-002) Concentration (6/11/20)b	TEF	Effluent Concentration x TEF[c]	Receiving Water (RSW-001) Concentration x TEF[c]	Receiving Water (RSW-002) Concentration x TEF
1,2,3,4,6,7,8-Hepta CDD	EPA 8290	pg/L	**2.6 J**	**10 J**	**11 J**	0.01	2.60E-02	1.00E-01	1.10E-01
1,2,3,4,6,7,8-Hepta CDF	EPA 8290	pg/L	<0.97	**5.4 J**	**2.8 J**	0.01	4.85E-03	5.40E-02	2.80E-02
1,2,3,4,7,8,9-Hepta CDF	EPA 8290	pg/L	<1.3	<5.9	<3.0	0.01	6.50E-03	2.95E-02	1.50E-02
1,2,3,4,7,8-Hexa CDD	EPA 8290	pg/L	<0.79	<2.4	<1.0	0.1	3.95E-02	1.20E-01	5.00E-02
1,2,3,4,7,8-Hexa CDF	EPA 8290	pg/L	**0.78 J**	<1.7	<1.3	0.1	7.80E-02	8.50E-02	6.50E-02
1,2,3,6,7,8-Hexa CDD	EPA 8290	pg/L	<0.64	<2.1	<1.0	0.1	3.20E-02	1.05E-01	5.00E-02
1,2,3,6,7,8-Hexa CDF	EPA 8290	pg/L	<0.79	<2.1	**1.4 J**	0.1	3.95E-02	1.05E-01	1.40E-01
1,2,3,7,8,9-Hexa CDD	EPA 8290	pg/L	<0.49	<1.6	<0.73	0.1	2.45E-02	8.00E-02	3.65E-02
1,2,3,7,8,9-Hexa CDF	EPA 8290	pg/L	<0.78	<1.3	<0.69	0.1	3.90E-02	6.50E-02	3.45E-02
1,2,3,7,8-Penta CDD	EPA 8290	pg/L	<0.89	<1.2	<0.79	1	4.45E-01	6.00E-01	3.95E-01
1,2,3,7,8-Penta CDF	EPA 8290	pg/L	<0.47	<2.2	<1.4	0.05	1.18E-02	5.50E-02	3.50E-02
2,3,4,6,7,8-Hexa CDF	EPA 8290	pg/L	<0.55	<1.2	<1.1	0.1	2.75E-02	6.00E-02	5.50E-02
2,3,4,7,8-Penta CDF	EPA 8290	pg/L	<0.34	<0.56	<1.1	0.5	8.50E-02	1.40E-01	2.75E-01
2,3,7,8-Tetra CDD	EPA 8290	pg/L	<0.71	<1.1	<0.78	1	3.55E-01	5.50E-01	3.90E-01
2,3,7,8-Tetra CDF	EPA 8290	pg/L	<0.61	<1.2	<0.85	0.1	3.05E-02	6.00E-02	4.25E-02
Octa CDD	EPA 8290	pg/L	**4 J**	**120**	**62 J**	0.0001	4.00E-04	1.20E-02	6.20E-03
Octa CDF	EPA 8290	pg/L	<2.5	**11 J**	<5.1	0.0001	1.25E-04	1.10E-03	2.55E-04
Tetra CDD-Equivalent	EPA 8290	pg/L				--	1.2	2.2	1.7

Notes:

[a] Congeners per California Regional Water Quality Control Board Waste Discharge Requirements.

[b] If the result is not detected, the data are shown as less than (<) the method detection limit.

[c] If the result is not detected, half the method detection limit for the respective congener is used to calculate TCDD-equivalent.

CDD = chlorodibenzodioxin

CDF = chlordibenzofuran

NPDES = National Pollutant Discharge Elimination System

pg/L = picograms per liter

TCDD = tetrachlorodibenzodioxin

TEF = toxicity equivalency factor

Table 7. Water Quality Parameters for Coyote Creek and the Composite Chronic Toxicity Samples, Second Quarter 2020
SFPP Norwalk Pump Station, Norwalk, California

					Sampling Dates		
			RSW-001	RSW-002	EFF-06082020[a]	EFF-06112020[a]	EFF-06122020[a]
Parameter Tests	Unit	Measurement Method	6/11/20 2:15:00 PM	6/11/20 2:18:00 PM	6/8/20 10:35:00 AM	6/11/20 11:45:00 AM	6/12/20 11:45:00 AM
pH	s.u.	Field[b]	8.57	8.84	6.61	6.77	7.07
pH	s.u.	Laboratory	--	--	--	7.4	--
Temperature	°F	Field[b]	79.7	79.7	78.1	78.3	75.2
Salinity	ppt	Field[b]	0.78	0.78	1.2	1.2	1.2
Dissolved Oxygen	mg/L	Field[b]	6.46	6.46	9.42	3.29	9.03
Dissolved Oxygen	mg/L	Laboratory	--	--	--	--	--
Conductivity	mS/cm	Field[b]	1.56	1.56	2.30	2.29	2.30
Conductivity	mS/cm	Laboratory	--	--	--	--	--
Total Ammonia	mg/L as nitrogen	Laboratory	--	--	NS	NS	NS

Notes:

[a] The effluent 24-hour composite samples were collected on 6/8/2020, 6/11/2020, and 6/12/2020.

[b] Field measurements were collected using a Horiba U-52.

-- = not measured or not applicable

° F = degrees Fahrenheit

mg/L = milligrams per liter

mS/cm = milliSiemens per centimeter

ppt = parts per thousand

s.u. = standard units

Table 8. NPDES Effluent Chronic Toxicity Monitoring, Second Quarter 2020

SFPP Norwalk Pump Station, Norwalk, California

		Sampling Dates	06/08/2020, 06/11/2020, and 06/12/2020
		Test Dates	06/09/2020 to 06/16/2020
		EFF-001 (Effluent)	
Test Organism	Toxicity Endpoint	% Effect	TST Result
Larva Fathead Minnows (Pimephales promelas)	Survival	2.6	Pass
	Growth	-19.7	Pass

Notes:

The Maximum Daily Effluent Limitation (MDEL) for chronic toxicity is exceeded when a chronic toxicity test results in “Fail” and the “Percent Effect” is $\geq$50%.

Two additional effluent toxicity tests will be conducted within the same calendar month if the initial test results in a "Fail" to evaluate the Median Monthly Effluent Limit (MMEL).

A TIE (Toxicity Identification Evaluation) will be conducted on any effluent sample that causes a chronic result of "Fail" with an effect >50%.

Accelerated testing will be implemented if the MMEL result is a "Fail" or if a single effluent toxicity test results in a "Fail" with % effect >50%.

NPDES = National Pollutant Discharge Elimination System

TRE = toxicity reduction evaluation

TST = Test of Significant Toxicity (statistical analysis) per EPA 833-R-10-003 (EPA, 2010)

Figures

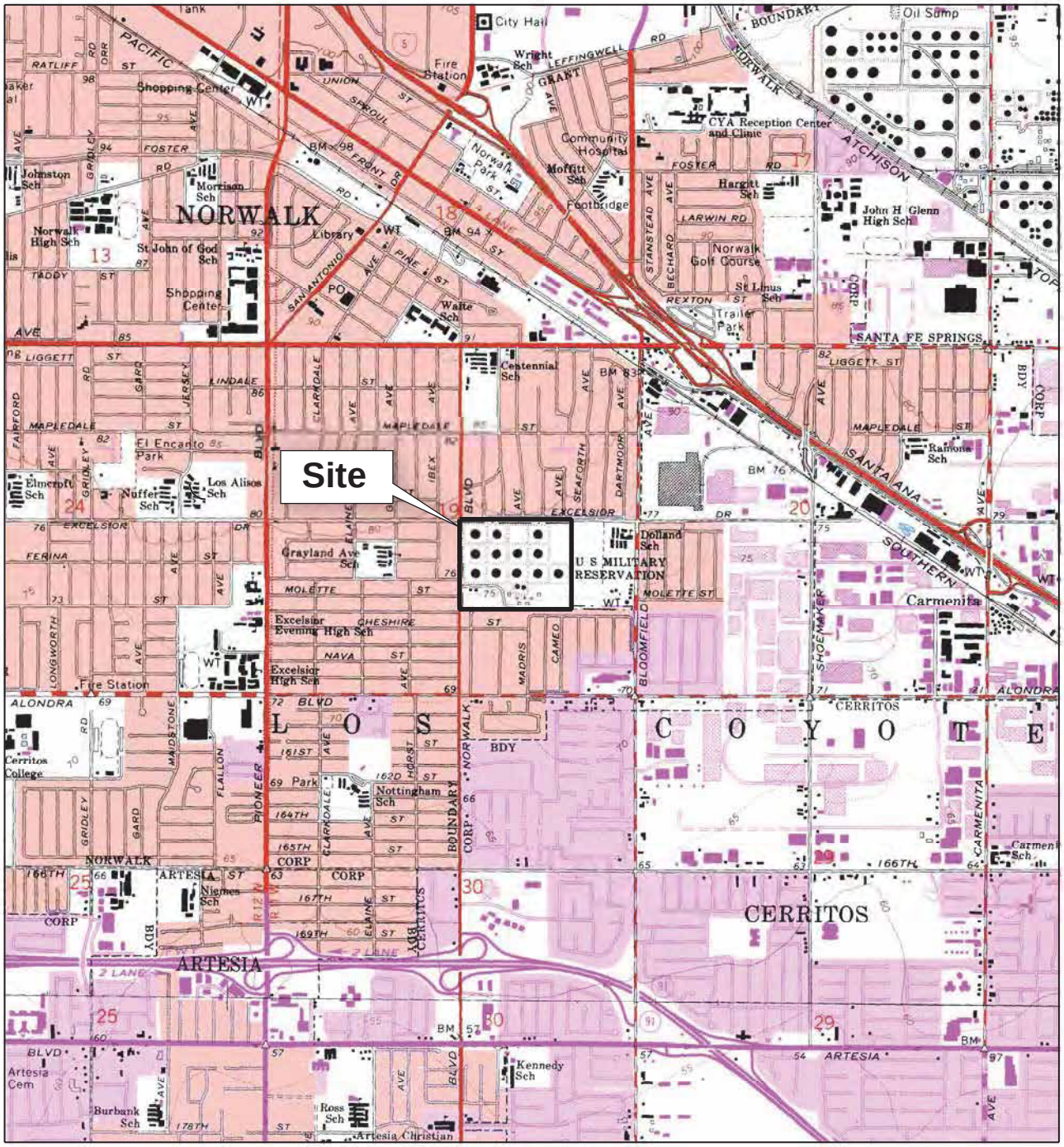


Figure 1. Site Location Map
SFPP Norwalk Pump Station
Norwalk, California

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.

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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.

N

0 75 150 300
Feet

1 inch = 150 feet

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

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\\DC1VS01\GISPROJ\K\KINDERMORGAN\NORWALK\MAPFILES\2020\FIGURE_2_REMEDIATION_SYSTEM_LAYOUT.MXD AESPEJO 7/10/2020
FES0713201942SCO

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

June 09, 2020

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

TEL:
FAX:

Workorder No.: N040741

RE: SFPP Norwalk

Attention: Eric Davis

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

for

Puri Romualdo
Laboratory Director

CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N040741

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time.

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

Analytical comments for EPA 8015B GRO:

Initial analysis within holding time however instrument quality control did not pass criteria.. Reanalysis was done past holding time.

Analytical comments for EPA 8015B DRO/ORO:

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

Analytical comments for EPA 8270C SIM:

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

Analytical comments for EPA 200.8:

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

CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N040741
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N040741-001A	EFF-052120	Wastewater	5/21/2020 9:45:00 AM	5/21/2020	6/9/2020
N040741-001B	EFF-052120	Wastewater	5/21/2020 9:45:00 AM	5/21/2020	6/9/2020
N040741-001C	EFF-052120	Wastewater	5/21/2020 9:45:00 AM	5/21/2020	6/9/2020
N040741-001D	EFF-052120	Wastewater	5/21/2020 9:45:00 AM	5/21/2020	6/9/2020
N040741-001E	EFF-052120	Wastewater	5/21/2020 9:45:00 AM	5/21/2020	6/9/2020

CLIENT: CH2MHill
Lab Order: N040741
Project: SFPP Norwalk
Lab ID: N040741-001

Client Sample ID: EFF-052120
Collection Date: 5/21/2020 9:45:00 AM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 3510C			**EPA 8270C**				
RunID: **NV00922-MS9_200528A** QC Batch: **79464**				PrepDate:	**5/27/2020**		Analyst: **PL**
Phenol	ND	0.33	1.0		µg/L	1	5/28/2020 12:08 PM
Surr: Phenol-d5	43.0	0	25-108		%REC	1	5/28/2020 12:08 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **CA01638-MS10_200528A** QC Batch: **CA20VW067**				PrepDate:			Analyst: **AW**
1,1-Dichloroethane	ND	0.22	0.50		ug/L	1	5/28/2020 04:59 PM
1,2-Dichloroethane	ND	0.16	0.50		ug/L	1	5/28/2020 04:59 PM
Benzene	ND	0.11	1.0		ug/L	1	5/28/2020 04:59 PM
Ethylbenzene	ND	0.11	1.0		ug/L	1	5/28/2020 04:59 PM
m,p-Xylene	ND	0.23	1.0		ug/L	1	5/28/2020 04:59 PM
MTBE	ND	0.44	1.0		ug/L	1	5/28/2020 04:59 PM
o-Xylene	ND	0.087	1.0		ug/L	1	5/28/2020 04:59 PM
Tert-Butanol	ND	2.8	5.0		ug/L	1	5/28/2020 04:59 PM
Toluene	ND	0.13	2.0		ug/L	1	5/28/2020 04:59 PM
Xylenes, Total	ND	1.5	2.0		ug/L	1	5/28/2020 04:59 PM
Surr: 1,2-Dichloroethane-d4	95.2	0	72-119		%REC	1	5/28/2020 04:59 PM
Surr: 4-Bromofluorobenzene	97.5	0	76-119		%REC	1	5/28/2020 04:59 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	5/28/2020 04:59 PM
Surr: Toluene-d8	103	0	81-120		%REC	1	5/28/2020 04:59 PM
TPH EXTRACTABLE BY GC/FID							
EPA 3510C			**EPA 8015B**				
RunID: **NV00922-GC1_200604A** QC Batch: **79456**				PrepDate:	**5/27/2020**		Analyst: **MG**
TPH-Diesel (C13-C22)	17	15	25	J	ug/L	1	6/4/2020 02:15 PM
TPH-Oil (C23-C36)	17	14	25	J	ug/L	1	6/4/2020 02:15 PM
Surr: Octacosane	101	0	26-152		%REC	1	6/4/2020 02:15 PM
Surr: p-Terphenyl	100	0	57-132		%REC	1	6/4/2020 02:15 PM
GASOLINE RANGE ORGANICS BY GC/FID							
			EPA 8015B				
RunID: **NV00922-GC4_200606A** QC Batch: **E20VW050**				PrepDate:			Analyst: **BH**
TPH-Gasoline (C4-C12)	30	21	50	JH	ug/L	1	6/6/2020 07:27 AM
Surr: Chlorobenzene - d5	103	0	74-138	H	%REC	1	6/6/2020 07:27 AM

Qualifiers:

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

CLIENT:	CH2MHill	**Client Sample ID:**	EFF-052120
Lab Order:	N040741	**Collection Date:**	5/21/2020 9:45:00 AM
Project:	SFPP Norwalk	**Matrix:**	WASTEWATER
Lab ID:	N040741-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
MERCURY BY COLD VAPOR TECHNIQUE							
EPA 245.1							
RunID: **NV00922-AA2_200527A** QC Batch: **79445** PrepDate: **5/26/2020** Analyst: **DJ**							
Mercury	ND	0.018	0.050		µg/L	1	5/27/2020 09:55 AM
TOTAL METALS BY ICPMS							
EPA 200.8							
RunID: **NV00922-ICP8_200527D** QC Batch: **79453** PrepDate: **5/27/2020** Analyst: **CEI**							
Copper	ND	0.26	0.50		µg/L	1	5/27/2020 02:56 PM
Lead	ND	0.13	0.50		µg/L	1	5/27/2020 09:00 AM
Zinc	ND	0.27	1.0		µg/L	1	5/27/2020 09:00 AM
TOTAL TPH							
EPA 8015B							
RunID: **NV00922-GC4_200606A** QC Batch: **R144902** PrepDate: Analyst: **BH**							
Total TPH	64	21	100	J	ug/L	1	6/6/2020

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N040741
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **MB-79453** SampType: **MBLK** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **5/27/2020** RunNo: **144733**
Client ID: **PBW** Batch ID: **79453** TestNo: **EPA 200.8** Analysis Date: **5/27/2020** SeqNo: **3799265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.50									
Zinc	ND	1.0									

Sample ID: **LCS-79453** SampType: **LCS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **5/27/2020** RunNo: **144733**
Client ID: **LCSW** Batch ID: **79453** TestNo: **EPA 200.8** Analysis Date: **5/27/2020** SeqNo: **3799266**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.392	0.50	10.00	0	104	85	115				
Zinc	10.495	1.0	10.00	0	105	85	115				

Sample ID: **N040741-001D-DUP** SampType: **DUP** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **5/27/2020** RunNo: **144733**
Client ID: **ZZZZZZ** Batch ID: **79453** TestNo: **EPA 200.8** Analysis Date: **5/27/2020** SeqNo: **3799271**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.50						0	0	20	
Zinc	ND	1.0						0	0	20	

Sample ID: **N040741-001D-MS** SampType: **MS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **5/27/2020** RunNo: **144733**
Client ID: **ZZZZZZ** Batch ID: **79453** TestNo: **EPA 200.8** Analysis Date: **5/27/2020** SeqNo: **3799273**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.212	0.50	10.00	0	102	75	125				
Zinc	13.612	1.0	10.00	0	136	75	125				S

Sample ID: **N040741-001D-MSD** SampType: **MSD** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **5/27/2020** RunNo: **144733**
Client ID: **ZZZZZZ** Batch ID: **79453** TestNo: **EPA 200.8** Analysis Date: **5/27/2020** SeqNo: **3799274**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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: N040741
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **N040741-001D-MSD**	SampType: **MSD**	TestCode: **200.8_W_SFP**	Units: **µg/L**	Prep Date: **5/27/2020**	RunNo: **144733**
Client ID: **ZZZZZZ**	Batch ID: **79453**	TestNo: **EPA 200.8**		Analysis Date: **5/27/2020**	SeqNo: **3799274**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.257	0.50	10.00	0	103	75	125	10.21	0.446	20	
Zinc	13.463	1.0	10.00	0	135	75	125	13.61	1.10	20	S

Sample ID: **MB-79453**	SampType: **MBLK**	TestCode: **200.8_W_SFP**	Units: **µg/L**	Prep Date: **5/27/2020**	RunNo: **144734**
Client ID: **PBW**	Batch ID: **79453**	TestNo: **EPA 200.8**		Analysis Date: **5/27/2020**	SeqNo: **3799319**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.50									

Sample ID: **LCS-79453**	SampType: **LCS**	TestCode: **200.8_W_SFP**	Units: **µg/L**	Prep Date: **5/27/2020**	RunNo: **144734**
Client ID: **LCSW**	Batch ID: **79453**	TestNo: **EPA 200.8**		Analysis Date: **5/27/2020**	SeqNo: **3799320**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	10.492	0.50	10.00	0	105	85	115				

Sample ID: **N040741-001D-DUP**	SampType: **DUP**	TestCode: **200.8_W_SFP**	Units: **µg/L**	Prep Date: **5/27/2020**	RunNo: **144734**
Client ID: **ZZZZZZ**	Batch ID: **79453**	TestNo: **EPA 200.8**		Analysis Date: **5/27/2020**	SeqNo: **3799323**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.50						0	0	20	

Sample ID: **N040741-001D-MS**	SampType: **MS**	TestCode: **200.8_W_SFP**	Units: **µg/L**	Prep Date: **5/27/2020**	RunNo: **144734**
Client ID: **ZZZZZZ**	Batch ID: **79453**	TestNo: **EPA 200.8**		Analysis Date: **5/27/2020**	SeqNo: **3799325**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.607	0.50	10.00	0	76.1	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: N040741
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **N040741-001D-MSD** SampType: **MSD** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **5/27/2020** RunNo: **144734**
Client ID: **ZZZZZZ** Batch ID: **79453** TestNo: **EPA 200.8** Analysis Date: **5/27/2020** SeqNo: **3799326**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.590	0.50	10.00	0	75.9	75	125	7.607	0.229	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: N040741
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: **MB-79445**	SampType: **MBLK**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **5/26/2020**	RunNo: **144624**
Client ID: **PBW**	Batch ID: **79445**	TestNo: **EPA 245.1**		Analysis Date: **5/27/2020**	SeqNo: **3792947**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.050									

Sample ID: **LCS-79445**	SampType: **LCS**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **5/26/2020**	RunNo: **144624**
Client ID: **LCSW**	Batch ID: **79445**	TestNo: **EPA 245.1**		Analysis Date: **5/27/2020**	SeqNo: **3792948**

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: **N040741-001D-DUP**	SampType: **DUP**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **5/26/2020**	RunNo: **144624**
Client ID: **ZZZZZZ**	Batch ID: **79445**	TestNo: **EPA 245.1**		Analysis Date: **5/27/2020**	SeqNo: **3792951**

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: **N040741-001D-MS**	SampType: **MS**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **5/26/2020**	RunNo: **144624**
Client ID: **ZZZZZZ**	Batch ID: **79445**	TestNo: **EPA 245.1**		Analysis Date: **5/27/2020**	SeqNo: **3792953**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.240	0.050	2.500	0	89.6	75	125				

Sample ID: **N040741-001D-MSD**	SampType: **MSD**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **5/26/2020**	RunNo: **144624**
Client ID: **ZZZZZZ**	Batch ID: **79445**	TestNo: **EPA 245.1**		Analysis Date: **5/27/2020**	SeqNo: **3792954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.220	0.050	2.500	0	88.8	75	125	2.240	0.897	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: N040741
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: **MB-79456**	SampType: **MBLK**	TestCode: **8015_W_FP_**	Units: **ug/L**	Prep Date: **5/27/2020**	RunNo: **144841**
Client ID: **PBW**	Batch ID: **79456**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **6/4/2020**	SeqNo: **3804840**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	ND	25									
Surr: Octacosane	84.626		80.00		106	26	152				
Surr: p-Terphenyl	81.800		80.00		102	57	132				

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N040741
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: **MB-R144902** SampType: **MBLK** TestCode: **8015_W_SFP** Units: **ug/L** Prep Date: RunNo: **144902**
Client ID: **PBW** Batch ID: **R144902** TestNo: **EPA 8015B** Analysis Date: **6/6/2020** SeqNo: **3809306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	34.000	100									J

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N040741
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: **E200602LCS** SampType: **LCS** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **144777**
Client ID: **LCSW** Batch ID: **E20VW046** TestNo: **EPA 8015B** Analysis Date: **6/2/2020** SeqNo: **3801981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1103.000	50	1000	0	110	67	136				
Surr: Chlorobenzene - d5	43690.000		50000		87.4	74	138				

Sample ID: **E200602MB** SampType: **MBLK** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **144777**
Client ID: **PBW** Batch ID: **E20VW046** TestNo: **EPA 8015B** Analysis Date: **6/2/2020** SeqNo: **3801982**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	37.000	50									J
Surr: Chlorobenzene - d5	48154.000		50000		96.3	74	138				

Sample ID: **N040784-001IMS** SampType: **MS** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **144777**
Client ID: **ZZZZZZ** Batch ID: **E20VW046** TestNo: **EPA 8015B** Analysis Date: **6/2/2020** SeqNo: **3801985**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	968.000	50	1000	52.00	91.6	67	136				
Surr: Chlorobenzene - d5	45076.000		50000		90.2	74	138				

Sample ID: **N040784-001IMSD** SampType: **MSD** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **144777**
Client ID: **ZZZZZZ** Batch ID: **E20VW046** TestNo: **EPA 8015B** Analysis Date: **6/2/2020** SeqNo: **3801986**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1025.000	50	1000	52.00	97.3	67	136	968.0	5.72	30	
Surr: Chlorobenzene - d5	43898.000		50000		87.8	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: N040741
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: **E200606LCS** SampType: **LCS** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **144902**
Client ID: **LCSW** Batch ID: **E20VW050** TestNo: **EPA 8015B** Analysis Date: **6/6/2020** SeqNo: **3807851**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1178.000	50	1000	0	118	67	136				
Surr: Chlorobenzene - d5	49195.000		50000		98.4	74	138				

Sample ID: **E200606MB** SampType: **MBLK** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **144902**
Client ID: **PBW** Batch ID: **E20VW050** TestNo: **EPA 8015B** Analysis Date: **6/6/2020** SeqNo: **3807852**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	34.000	50									J
Surr: Chlorobenzene - d5	49655.000		50000		99.3	74	138				

Sample ID: **N040875-002BDUP** SampType: **DUP** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **144902**
Client ID: **ZZZZZZ** Batch ID: **E20VW050** TestNo: **EPA 8015B** Analysis Date: **6/6/2020** SeqNo: **3807855**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	35.000	50						37.00	0	0	J
Surr: Chlorobenzene - d5	49316.000		50000		98.6	74	138		0	0	

Sample ID: **N040875-001BMS** SampType: **MS** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **144902**
Client ID: **ZZZZZZ** Batch ID: **E20VW050** TestNo: **EPA 8015B** Analysis Date: **6/6/2020** SeqNo: **3807857**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	958.000	50	1000	36.00	92.2	67	136				
Surr: Chlorobenzene - d5	46784.000		50000		93.6	74	138				

Sample ID: **N040875-001BMSD** SampType: **MSD** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **144902**
Client ID: **ZZZZZZ** Batch ID: **E20VW050** TestNo: **EPA 8015B** Analysis Date: **6/6/2020** SeqNo: **3807858**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	992.000	50	1000	36.00	95.6	67	136	958.0	3.49	30	

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N040741
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: **N040875-001BMSD** SampType: **MSD** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **144902**
Client ID: **ZZZZZZ** Batch ID: **E20VW050** TestNo: **EPA 8015B** Analysis Date: **6/6/2020** SeqNo: **3807858**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	43688.000		50000		87.4	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: N040741
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **CA200528-LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **144680**
Client ID: **LCSW** Batch ID: **CA20VW067** TestNo: **EPA 8260B** Analysis Date: **5/28/2020** SeqNo: **3795976**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	20.960	0.50	20.00	0	105	69	133				
1,2-Dichloroethane	17.910	0.50	20.00	0	89.6	69	132				
Benzene	19.840	1.0	20.00	0	99.2	81	122				
Ethylbenzene	20.410	1.0	20.00	0	102	73	127				
m,p-Xylene	40.640	1.0	40.00	0	102	76	128				
MTBE	18.880	1.0	20.00	0	94.4	65	123				
o-Xylene	19.680	1.0	20.00	0	98.4	80	121				
Tert-Butanol	101.630	5.0	100.0	0	102	70	130				
Toluene	20.080	2.0	20.00	0	100	77	122				
Xylenes, Total	60.320	2.0	60.00	0	101	75	125				
Surr: 1,2-Dichloroethane-d4	22.230		25.00		88.9	72	119				
Surr: 4-Bromofluorobenzene	24.180		25.00		96.7	76	119				
Surr: Dibromofluoromethane	25.800		25.00		103	85	115				
Surr: Toluene-d8	24.960		25.00		99.8	81	120				

Sample ID: **CA200528-MB1** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **144680**
Client ID: **PBW** Batch ID: **CA20VW067** TestNo: **EPA 8260B** Analysis Date: **5/28/2020** SeqNo: **3795977**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	ND	0.50									
1,2-Dichloroethane	ND	0.50									
Benzene	ND	1.0									
Ethylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
MTBE	ND	1.0									
o-Xylene	ND	1.0									
Tert-Butanol	ND	5.0									
Toluene	ND	2.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	23.680		25.00		94.7	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: N040741
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **CA200528-MB1** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **144680**
Client ID: **PBW** Batch ID: **CA20VW067** TestNo: **EPA 8260B** Analysis Date: **5/28/2020** SeqNo: **3795977**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	23.430		25.00		93.7	76	119				
Surr: Dibromofluoromethane	26.070		25.00		104	85	115				
Surr: Toluene-d8	25.780		25.00		103	81	120				

Sample ID: **N040713-002A-MS** SampType: **MS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **144680**
Client ID: **ZZZZZZ** Batch ID: **CA20VW067** TestNo: **EPA 8260B** Analysis Date: **5/28/2020** SeqNo: **3795991**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	20.370	0.50	20.00	0	102	69	133				
1,2-Dichloroethane	20.770	0.50	20.00	0	104	69	132				
Benzene	20.630	1.0	20.00	0	103	81	122				
Ethylbenzene	20.600	1.0	20.00	0	103	73	127				
m,p-Xylene	40.430	1.0	40.00	0	101	76	128				
MTBE	20.560	1.0	20.00	0	103	65	123				
o-Xylene	19.340	1.0	20.00	0	96.7	80	121				
Tert-Butanol	99.550	5.0	100.0	0	99.6	70	130				
Toluene	20.980	2.0	20.00	0	105	77	122				
Xylenes, Total	59.770	2.0	60.00	0	99.6	75	125				
Surr: 1,2-Dichloroethane-d4	24.430		25.00		97.7	72	119				
Surr: 4-Bromofluorobenzene	23.130		25.00		92.5	76	119				
Surr: Dibromofluoromethane	26.290		25.00		105	85	115				
Surr: Toluene-d8	24.260		25.00		97.0	81	120				

Sample ID: **N040713-002A-MSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **144680**
Client ID: **ZZZZZZ** Batch ID: **CA20VW067** TestNo: **EPA 8260B** Analysis Date: **5/28/2020** SeqNo: **3795992**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	20.540	0.50	20.00	0	103	69	133	20.37	0.831	20	
1,2-Dichloroethane	20.300	0.50	20.00	0	102	69	132	20.77	2.29	20	
Benzene	19.780	1.0	20.00	0	98.9	81	122	20.63	4.21	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: N040741
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N040713-002A-MSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **144680**
Client ID: **ZZZZZZ** Batch ID: **CA20VW067** TestNo: **EPA 8260B** Analysis Date: **5/28/2020** SeqNo: **3795992**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	19.950	1.0	20.00	0	99.8	73	127	20.60	3.21	20	
m,p-Xylene	40.260	1.0	40.00	0	101	76	128	40.43	0.421	20	
MTBE	19.740	1.0	20.00	0	98.7	65	123	20.56	4.07	20	
o-Xylene	18.560	1.0	20.00	0	92.8	80	121	19.34	4.12	20	
Tert-Butanol	106.890	5.0	100.0	0	107	70	130	99.55	7.11	20	
Toluene	20.290	2.0	20.00	0	101	77	122	20.98	3.34	20	
Xylenes, Total	58.820	2.0	60.00	0	98.0	75	125	59.77	1.60	20	
Surr: 1,2-Dichloroethane-d4	23.750		25.00		95.0	72	119		0		
Surr: 4-Bromofluorobenzene	23.220		25.00		92.9	76	119		0		
Surr: Dibromofluoromethane	26.340		25.00		105	85	115		0		
Surr: Toluene-d8	24.560		25.00		98.2	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: N040741
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID: **LCS-79464** SampType: **LCS** TestCode: **8270WATER_** Units: **µg/L** Prep Date: **5/27/2020** RunNo: **144671**
Client ID: **LCSW** Batch ID: **79464** TestNo: **EPA 8270C** **EPA 3510C** Analysis Date: **5/28/2020** SeqNo: **3795812**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	3.380	1.0	6.000	0	56.3	24	120				
Surr: Phenol-d5	0.530		1.000		53.0	25	108				

Sample ID: **LCSD-79464** SampType: **LCSD** TestCode: **8270WATER_** Units: **µg/L** Prep Date: **5/27/2020** RunNo: **144671**
Client ID: **LCSS02** Batch ID: **79464** TestNo: **EPA 8270C** **EPA 3510C** Analysis Date: **5/28/2020** SeqNo: **3795813**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	3.380	1.0	6.000	0	56.3	24	120	3.380	0	20	
Surr: Phenol-d5	0.520		1.000		52.0	25	108		0		

Sample ID: **MB-79464** SampType: **MBLK** TestCode: **8270WATER_** Units: **µg/L** Prep Date: **5/27/2020** RunNo: **144671**
Client ID: **PBW** Batch ID: **79464** TestNo: **EPA 8270C** **EPA 3510C** Analysis Date: **5/28/2020** SeqNo: **3795814**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	1.0									
Surr: Phenol-d5	0.420		1.000		42.0	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

N040741

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

CHAIN OF CUSTODY RECORD
DATE: 5/21/20
PAGE: 1 of 1

Section A Required Client Information:
Company: Kinder Morgan Energy Partners, Attention: Alan Van Antwerp
Address: 9950 San Diego Mission Road, San Diego, CA 92108
Email To: alan_vanantwerp@kindermorgan.com, eric.davis@ch2m.com
Phone: 619-922-1960 (mobile) Fax:

Section B Required Project Information:
Report To: Eric Davis
Copy To: Alan Van Antwerp
Purchase Order No.:
Project Name: SFPP Norwalk

Section C Invoice Information:
Attention: Alan Van Antwerp - Ref. AFE# 81195
Company Name: Kinder Morgan Energy Partners
Address: 9950 San Diego Mission Road, San Diego, CA 92108
ATL Project Manager: Marion Cartin

Section D Sampler Information:
Sampler Name: James Dye
Sampler Signature: [signature]
Sample Date: 5/21/20

Section E Required Sample Information

	BTEX, 1,1-DCA, 1,2-DCA, MTBE, TBA (8260B)	TPH-gas (C4-C12) (8015B)	TPH-d (C10-C22), TPH-oil (C23+), Total TPH (8015B)	Cr, Pb, Zn (200.8); Hg (245.1)	Phenol (8270)
CONTAINER TYPE	V	V	A	P	A
# OF CONTAINERS	3	3	2	1	2
PRESERVATIVE	H	H	--	N	--
VOLUME (mL)	40	40	1000	500	1000

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G=GRAB C=COMP)	SAMPLING DATE	SAMPLING TIME	TOTAL # OF CONTAINERS	BTEX... (8260B)	TPH-gas (8015B)	TPH-d/oil (8015B)	Cr, Pb, Zn; Hg	Phenol (8270)	Comments
1	EFF-052120	EFFLUENT	WW	G	5/21/20	0945	11	x	x	x	x	x	N040741-01 Report metals, TPH and VOC preliminary data on 24-hr TAT Report total Xylenes
2													
3													
4													
5													
6													
7													
8													
9													
10													

Relinquished by (Signature and Printed Name)	Date / Time	Relinquished by (Signature and Printed Name)	Date / Time
[signature]	5/21/20 1030	[signature]	5/21/20 1135
[signature]	5/21/20 1250	[signature] THAD	5/21/20 12:59
[signature] EMIL R.	5/21/20 1330	[signature] THAD	5/21/20 13:30

Turn Around Time (TAT):
- ☐A = Same Day
- ☒B = 24 Hours
- ☐C = 48 Hours
- ☐D = 72 Hours
- ☒E = 5 Workdays
- ☐E = 10 Workdays

TAT Starts at 8 AM the following day if samples received after 5:00 PM.

Special Instruction: HOLD

Matrix: W = Water, WW = Wastewater, O = Oil, P = Product, S = Soil, Others/Specify:

Preservatives: H = HCl, N = HNO3, S = H2SO4, Z = Zn(AC)2, O = NaOH, T = Na2S2O3, Others/Specify:

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

IR#1 5.2°C

[signature] THAD 5/21/20 17:43

Rcvd: Yoandro Rodriguez ALT 5/21/20 17:43

4.7°C on #2

ASSET Laboratories

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

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

Cooler Received/Opened On:	5/21/2020	Workorder:	N040741
Rep sample Temp (Deg C):	5.2	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 ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☑	No ☐	NA ☐
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☑	No ☐	NA ☐
15. Did the bottle labels indicate correct preservatives used?	Yes ☑	No ☐	NA ☐
16. Were there Non-Conformance issues at login?	Yes ☐	No ☐	NA ☑
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

For:

Checklist Completed By: TM YRJ 5/22/2020

Reviewed By: MBC 5/27/2020

AssetLabs Sample Control

From: Orliczky, Nils/SCO <Nils.Orliczky@jacobs.com>
Sent: Tuesday, May 26, 2020 10:43 AM
To: Emil Angelo Rodriguez; 'Marianne Santos'; Marlon Cartin
Cc: Dye, James; Davis, Eric/LAC; Hill, Danny/SDO; AssetLabs Sample Control; Yoandra Rodriguez; Thad Malit
Subject: RE: [EXTERNAL] Re: 5/21

Normal 5 day TAT

Thanks,
Nils Orliczky | Jacobs | Environmental Engineer | Global Environmental Solutions | 949.224.7959 | 562.882.9676 mobile | nils.orliczky@jacobs.com | www.jacobs.com

---

From: Emil Angelo Rodriguez <emilangelo@assetlaboratories.com>
Sent: Tuesday, May 26, 2020 10:32 AM
To: Orliczky, Nils/SCO <Nils.Orliczky@jacobs.com>; 'Marianne Santos' <marianne@assetlaboratories.com>; Marlon Cartin <marlon@assetlaboratories.com>
Cc: Dye, James <James_Dye@kindermorgan.com>; Davis, Eric/LAC <Eric.Davis@jacobs.com>; Hill, Danny/SDO <Danny.Hill@jacobs.com>; AssetLabs Sample Control <samplecontrol@assetlaboratories.com>; Yoandra Rodriguez <yoandra@assetlaboratories.com>; Thad Malit <tmalit@assetlaboratories.com>
Subject: [EXTERNAL] Re: 5/21

Good Morning Nils,

We will proceed to analyze EFF-052120. Please provide a TAT for the project. Thanks!

Cheers,

Emil

On 5/26/2020 10:29 AM, Orliczky, Nils/SCO wrote:

> Marianne, please run Eff-052120 samples, previously placed on hold.
>
> Thanks,
> **Nils Orliczky**| Jacobs | Environmental Engineer | Global Environmental Solutions | 949.224.7959 | 562.882.9676 mobile |nils.orliczky@jacobs.com | www.jacobs.com
>
> ---
>
> **From:** Dye, James <James_Dye@kindermorgan.com>
> **Sent:** Thursday, May 21, 2020 10:28 AM
> **To:** Davis, Eric/LAC <Eric.Davis@CH2M.com>; emilangelo@assetlaboratories.com; Hill, Danny/SDO <Danny.Hill@jacobs.com>; 'Marianne Santos' <marianne@assetlaboratories.com>; Orliczky, Nils/SCO <Nils.Orliczky@ch2m.com>
> **Subject:** [EXTERNAL] 5/21
>
> We have samples ready for pick-up in Norwalk. The samples labeled EFF-052120 need to be put on HOLD until we get the results from the samples taken on 5/19/2020.

Thanks,

James Dye
Technician-EHS SR
2319 S. Riverside Ave
Bloomington, CA 92316

Cell (909) 631-0231

--
Emil Angelo Rodriguez
Project Manager
C:562.881.0611 (Text)

ASSET LABORATORIES - Serving Clients with Passion and Professionalism

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 | F: 702.307.2691

ASSET Laboratories

WORK ORDER Summary

26-May-20

WorkOrder: N040741

Client ID: CH2HI03

Project: SFPP Norwalk **QC Level:** RTNE **Date Received:** 5/21/2020

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
N040741-001A	EFF-052120	5/21/2020 9:45:00 AM	6/2/2020	Wastewater	EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	V-CA
N040741-001B			6/2/2020		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	VW
N040741-001C			6/2/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	☐	☐	☐	WW
			6/2/2020		EPA 8015B	TPH EXTRACTABLE BY GC/FID	☐	☐	☐	WW
			6/2/2020		EPA 8015B	Total TPH	☐	☐	☐	WW
N040741-001D			6/2/2020			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			6/2/2020		EPA 200.8	TOTAL METALS BY ICPMS	☐	☐	☐	WW
			6/2/2020		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	WW
			6/2/2020			MERCURY PREP	☐	☐	☐	WW
N040741-001E			6/2/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	☐	☐	☐	WW
			6/2/2020		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WW
N040741-002A	FOLDER	6/2/2020	6/2/2020		Folder	Folder	☐	☐	☐	LAB
			6/2/2020		Folder	Folder	☐	☐	☐	LAB

July 07, 2020

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

TEL:
FAX:

Workorder No.: N040965

RE: SFPP Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on June 11, 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,

Puri Romualdo
Laboratory Director

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 except for pH.

pH testing is specified to be performed in the field within 15 minutes of sampling;sample was received and analyzed past the regulatory 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 MBAS was subcontracted to AETL, Burbank CA

Ammonia, Cyanide, Sulfide, OCPs, PCBs, 625 CTR was subcontracted to BC Laboratories, Bakersfield CA

VOC analytes Acrolein and Acrylonitrile was subcontracted to Eurofins Calscience, Irvine CA

Asbestos TEM was subcontracted to LA Testing, Pasadena CA

8290 was subcontracted to Pace Analytical, Minneapolis MN

Analytical comments for EPA 200.7:

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

Analytical comments for EPA 200.8:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria on some analytes

possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N040965
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N040965-001A	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001B	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001C	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001D	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001E	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001F	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001G	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001H	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001I	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001J	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001K	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001L	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001M	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001N	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001O	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001P	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001Q	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001R	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-001S	EFF-06-11-20	Water	6/11/2020 1:15:00 PM	6/11/2020	7/7/2020
N040965-002A	RSW-001-06-11-20	Water	6/11/2020 2:20:00 PM	6/11/2020	7/7/2020
N040965-002B	RSW-001-06-11-20	Water	6/11/2020 2:20:00 PM	6/11/2020	7/7/2020
N040965-002C	RSW-001-06-11-20	Water	6/11/2020 2:20:00 PM	6/11/2020	7/7/2020
N040965-002D	RSW-001-06-11-20	Water	6/11/2020 2:20:00 PM	6/11/2020	7/7/2020
N040965-002E	RSW-001-06-11-20	Water	6/11/2020 2:20:00 PM	6/11/2020	7/7/2020
N040965-002F	RSW-001-06-11-20	Water	6/11/2020 2:20:00 PM	6/11/2020	7/7/2020
N040965-002G	RSW-001-06-11-20	Water	6/11/2020 2:20:00 PM	6/11/2020	7/7/2020
N040965-002H	RSW-001-06-11-20	Water	6/11/2020 2:20:00 PM	6/11/2020	7/7/2020
N040965-002I	RSW-001-06-11-20	Water	6/11/2020 2:20:00 PM	6/11/2020	7/7/2020
N040965-003A	RSW-002-06-11-20	Water	6/11/2020 2:30:00 PM	6/11/2020	7/7/2020

CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N040965
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N040965-003B	RSW-002-06-11-20	Water	6/11/2020 2:30:00 PM	6/11/2020	7/7/2020
N040965-003C	RSW-002-06-11-20	Water	6/11/2020 2:30:00 PM	6/11/2020	7/7/2020
N040965-003D	RSW-002-06-11-20	Water	6/11/2020 2:30:00 PM	6/11/2020	7/7/2020
N040965-003E	RSW-002-06-11-20	Water	6/11/2020 2:30:00 PM	6/11/2020	7/7/2020
N040965-003F	RSW-002-06-11-20	Water	6/11/2020 2:30:00 PM	6/11/2020	7/7/2020
N040965-003G	RSW-002-06-11-20	Water	6/11/2020 2:30:00 PM	6/11/2020	7/7/2020
N040965-003H	RSW-002-06-11-20	Water	6/11/2020 2:30:00 PM	6/11/2020	7/7/2020
N040965-003I	RSW-002-06-11-20	Water	6/11/2020 2:30:00 PM	6/11/2020	7/7/2020

CLIENT:	CH2MHill	**Client Sample ID:**	EFF-06-11-20
Lab Order:	N040965	**Collection Date:**	6/11/2020 1:15:00 PM
Project:	SFPP Norwalk	**Matrix:**	WATER
Lab ID:	N040965-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
SM4500-H+B							
RunID: **NV00922-WC_200612A** QC Batch: **R145023** PrepDate:							Analyst: **LR**
pH	7.4	0.10	0.10	H	pH Units	1	6/12/2020 11:35 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	6/12/2020 11:35 AM
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **CA01638-WC01_200612A** QC Batch: **79707** PrepDate: **6/12/2020**							Analyst: **AG**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	6/12/2020 10:00 AM
SETTLEABLE MATTER							
SM2540F							
RunID: **CA01638-WC01_200611A** QC Batch: **79711** PrepDate: **6/11/2020**							Analyst: **AG**
Settleable Matter	ND	0.10	0.10		ml/L	1	6/11/2020 06:30 PM
TURBIDITY							
SM 2130B							
RunID: **NV00922-WC_200612C** QC Batch: **R145026** PrepDate:							Analyst: **LR**
Turbidity	0.28	0.10	0.10		NTU	1	6/12/2020 03:35 PM
HEXANE EXTRACTABLE MATERIAL (HEM)							
EPA 1664 _HEM REV B							
RunID: **NV00922-WC_200615D** QC Batch: **79706** PrepDate: **6/15/2020**							Analyst: **LR**
Oil & Grease	1.3	0.69	4.7	J	mg/L	1	6/15/2020 12:37 PM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 3510C **EPA 8270C**							
RunID: **NV00922-MS9_200617A** QC Batch: **79713** PrepDate: **6/16/2020**							Analyst: **PL**
Phenol	ND	0.33	1.0		µg/L	1	6/17/2020 06:24 PM
Surr: Phenol-d5	26.0	0	25-108		%REC	1	6/17/2020 06:24 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 8260B							
RunID: **CA01638-MS10_200617A** QC Batch: **CA20VW076** PrepDate:							Analyst: **AW**
1,1,1-Trichloroethane	ND	0.20	1.0		ug/L	1	6/17/2020 07:11 PM
1,1,2,2-Tetrachloroethane	ND	0.11	1.0		ug/L	1	6/17/2020 07:11 PM
1,1,2-Trichloroethane	ND	0.23	1.0		ug/L	1	6/17/2020 07:11 PM
1,1-Dichloroethane	ND	0.22	0.50		ug/L	1	6/17/2020 07:11 PM

Qualifiers:

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

CLIENT: CH2MHill
Lab Order: N040965
Project: SFPP Norwalk
Lab ID: N040965-001

Client Sample ID: EFF-06-11-20
Collection Date: 6/11/2020 1:15:00 PM
Matrix: WATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **CA01638-MS10_200617A** QC Batch: **CA20VW076** PrepDate: Analyst: **AW**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.17	1.0		ug/L	1	6/17/2020 07:11 PM
1,2,4-Trichlorobenzene	ND	0.10	1.0		ug/L	1	6/17/2020 07:11 PM
1,2-Dichlorobenzene	ND	0.089	1.0		ug/L	1	6/17/2020 07:11 PM
1,2-Dichloroethane	ND	0.16	0.50		ug/L	1	6/17/2020 07:11 PM
1,2-Dichloropropane	ND	0.16	1.0		ug/L	1	6/17/2020 07:11 PM
1,3-Dichlorobenzene	ND	0.081	1.0		ug/L	1	6/17/2020 07:11 PM
1,4-Dichlorobenzene	ND	0.080	1.0		ug/L	1	6/17/2020 07:11 PM
2-Butanone	ND	4.7	10		ug/L	1	6/17/2020 07:11 PM
Benzene	ND	0.11	1.0		ug/L	1	6/17/2020 07:11 PM
Bromodichloromethane	ND	0.20	1.0		ug/L	1	6/17/2020 07:11 PM
Bromoform	ND	0.23	1.0		ug/L	1	6/17/2020 07:11 PM
Bromomethane	ND	0.38	1.0		ug/L	1	6/17/2020 07:11 PM
Carbon tetrachloride	ND	0.33	0.50		ug/L	1	6/17/2020 07:11 PM
Chlorobenzene	ND	0.11	1.0		ug/L	1	6/17/2020 07:11 PM
Chloroethane	ND	0.69	1.0		ug/L	1	6/17/2020 07:11 PM
Chloroform	ND	0.38	1.0		ug/L	1	6/17/2020 07:11 PM
Chloromethane	ND	0.23	1.0		ug/L	1	6/17/2020 07:11 PM
cis-1,3-Dichloropropene	ND	0.16	1.0		ug/L	1	6/17/2020 07:11 PM
Di-isopropyl ether	ND	0.15	1.0		ug/L	1	6/17/2020 07:11 PM
Dibromochloromethane	ND	0.23	1.0		ug/L	1	6/17/2020 07:11 PM
Ethylbenzene	ND	0.11	1.0		ug/L	1	6/17/2020 07:11 PM
Hexachlorobutadiene	ND	0.30	1.0		ug/L	1	6/17/2020 07:11 PM
m,p-Xylene	ND	0.23	1.0		ug/L	1	6/17/2020 07:11 PM
Methylene chloride	ND	1.2	2.0		ug/L	1	6/17/2020 07:11 PM
MTBE	ND	0.44	1.0		ug/L	1	6/17/2020 07:11 PM
Naphthalene	ND	0.41	1.0		ug/L	1	6/17/2020 07:11 PM
o-Xylene	ND	0.087	1.0		ug/L	1	6/17/2020 07:11 PM
Tert-amyl methyl ether	ND	0.13	1.0		ug/L	1	6/17/2020 07:11 PM
Tert-Butanol	ND	2.8	5.0		ug/L	1	6/17/2020 07:11 PM
Tetrachloroethene	ND	0.25	1.0		ug/L	1	6/17/2020 07:11 PM
Toluene	ND	0.13	2.0		ug/L	1	6/17/2020 07:11 PM
trans-1,2-Dichloroethene	ND	0.27	1.0		ug/L	1	6/17/2020 07:11 PM
trans-1,3-Dichloropropene	ND	0.12	1.0		ug/L	1	6/17/2020 07:11 PM
Trichloroethene	ND	0.26	1.0		ug/L	1	6/17/2020 07:11 PM
Vinyl chloride	ND	0.19	0.50		ug/L	1	6/17/2020 07:11 PM
Xylenes, Total	ND	1.5	2.0		ug/L	1	6/17/2020 07:11 PM

Qualifiers:

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

CLIENT: CH2MHill
Lab Order: N040965
Project: SFPP Norwalk
Lab ID: N040965-001

Client Sample ID: EFF-06-11-20
Collection Date: 6/11/2020 1:15:00 PM
Matrix: WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **CA01638-MS10_200617A**	QC Batch: **CA20VW076**			PrepDate:			Analyst: **AW**
Surr: 1,2-Dichloroethane-d4	92.2	0	72-119		%REC	1	6/17/2020 07:11 PM
Surr: 4-Bromofluorobenzene	98.6	0	76-119		%REC	1	6/17/2020 07:11 PM
Surr: Dibromofluoromethane	94.1	0	85-115		%REC	1	6/17/2020 07:11 PM
Surr: Toluene-d8	98.6	0	81-120		%REC	1	6/17/2020 07:11 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **CA01638-MS10_200617A**	QC Batch: **CA20VW076**			PrepDate:			Analyst: **AW**
2-Chloroethyl vinyl ether	ND	0.29	1.0		µg/L	1	6/17/2020 07:11 PM
Surr: 1,2-Dichloroethane-d4	93.7	0	75-130		%REC	1	6/17/2020 07:11 PM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	6/17/2020 07:11 PM
Surr: Dibromofluoromethane	96.9	0	80-128		%REC	1	6/17/2020 07:11 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	6/17/2020 07:11 PM
TPH EXTRACTABLE BY GC/FID							
EPA 3510C			**EPA 8015B**				
RunID: **NV00922-GC3_200613A**	QC Batch: **79686**			PrepDate:	**6/12/2020**		Analyst: **PL**
TPH-Diesel (C13-C22)	ND	15	25		ug/L	1	6/13/2020 01:48 PM
TPH-Oil (C23-C36)	16	14	25	J	ug/L	1	6/13/2020 01:48 PM
Surr: Octacosane	122	0	26-152		%REC	1	6/13/2020 01:48 PM
Surr: p-Terphenyl	116	0	57-132		%REC	1	6/13/2020 01:48 PM
GASOLINE RANGE ORGANICS BY GC/FID							
			EPA 8015B				
RunID: **NV00922-GC4_200612A**	QC Batch: **E20VW052**			PrepDate:			Analyst: **BH**
TPH-Gasoline (C4-C12)	33	21	50	J	ug/L	1	6/12/2020 10:42 AM
Surr: Chlorobenzene - d5	108	0	74-138		%REC	1	6/12/2020 10:42 AM
HEXAVALENT CHROMIUM BY IC							
			EPA 7199				
RunID: **CA01638-IC01_200611A**	QC Batch: **R145121**			PrepDate:			Analyst: **AG**
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	6/11/2020 09:07 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **NV00922-IC8_200612A**	QC Batch: **R145047**			PrepDate:			Analyst: **RAB**

Qualifiers:

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

CLIENT: CH2MHill
Lab Order: N040965
Project: SFPP Norwalk
Lab ID: N040965-001

Client Sample ID: EFF-06-11-20
Collection Date: 6/11/2020 1:15:00 PM
Matrix: WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **NV00922-IC8_200612A** QC Batch: **R145047**				PrepDate:			Analyst: **RAB**
Nitrogen, Nitrite	ND	0.025	2.5		mg/L	5	6/12/2020 12:04 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **NV00922-IC8_200612A** QC Batch: **R145047**				PrepDate:			Analyst: **RAB**
Nitrate/Nitrite as N	0.30	0.025	0.50	J	mg/L	5	6/12/2020 12:04 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **NV00922-IC8_200612A** QC Batch: **R145047**				PrepDate:			Analyst: **RAB**
Nitrate as N	0.30	0.044	0.25		mg/L	5	6/12/2020 12:04 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 245.1				
RunID: **NV00922-AA2_200612A** QC Batch: **79680**				PrepDate:		**6/12/2020**	Analyst: **DJ**
Mercury	ND	0.018	0.050		µg/L	1	6/12/2020 04:18 PM
TOTAL METALS BY COLLISION/REACTION CELL ICPMS							
			EPA 200.8				
RunID: **NV00922-ICP8_200613C** QC Batch: **79678**				PrepDate:		**6/12/2020**	Analyst: **CEI**
Selenium	0.87	0.36	0.50		µg/L	1	6/13/2020 10:10 AM
TOTAL METALS BY ICPMS							
			EPA 200.8				
RunID: **NV00922-ICP8_200613F** QC Batch: **79678**				PrepDate:		**6/12/2020**	Analyst: **CEI**
Antimony	0.49	0.16	0.50	J	µg/L	1	6/13/2020 08:16 PM
Arsenic	14	0.081	0.10		µg/L	1	6/13/2020 10:10 AM
Beryllium	ND	0.042	0.50		µg/L	1	6/13/2020 10:10 AM
Cadmium	ND	0.053	0.25		µg/L	1	6/13/2020 10:10 AM
Chromium	ND	0.13	0.50		µg/L	1	6/13/2020 10:10 AM
Copper	ND	0.26	0.50		µg/L	1	6/13/2020 10:10 AM
Lead	ND	0.13	0.50		µg/L	1	6/13/2020 10:10 AM
Nickel	ND	0.26	1.0		µg/L	1	6/13/2020 10:10 AM
Silver	ND	0.23	0.25		µg/L	1	6/13/2020 10:10 AM
Thallium	ND	0.19	0.50		µg/L	1	6/13/2020 10:10 AM
Zinc	3.4	0.27	1.0		µg/L	1	6/14/2020 10:53 AM

Qualifiers:

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

CLIENT:	CH2MHill	**Client Sample ID:**	EFF-06-11-20
Lab Order:	N040965	**Collection Date:**	6/11/2020 1:15:00 PM
Project:	SFPP Norwalk	**Matrix:**	WATER
Lab ID:	N040965-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL TPH							
EPA 8015B							
RunID: **NV00922-GC3_200613A** QC Batch: **R145055** PrepDate: Analyst: **PL**							
Total TPH	49	21	100	J	ug/L	1	6/13/2020

Qualifiers:

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

CLIENT: CH2MHill
Lab Order: N040965
Project: SFPP Norwalk
Lab ID: N040965-002

Client Sample ID: RSW-001-06-11-20
Collection Date: 6/11/2020 2:20:00 PM
Matrix: WATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **CA01638-MS10_200617A** QC Batch: **CA20VW076** PrepDate: Analyst: **AW**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	0.20	1.0		ug/L	1	6/17/2020 07:37 PM
1,1,2,2-Tetrachloroethane	ND	0.11	1.0		ug/L	1	6/17/2020 07:37 PM
1,1,2-Trichloroethane	ND	0.23	1.0		ug/L	1	6/17/2020 07:37 PM
1,1-Dichloroethane	ND	0.22	0.50		ug/L	1	6/17/2020 07:37 PM
1,1-Dichloroethene	ND	0.17	1.0		ug/L	1	6/17/2020 07:37 PM
1,2,4-Trichlorobenzene	ND	0.10	1.0		ug/L	1	6/17/2020 07:37 PM
1,2-Dichlorobenzene	ND	0.089	1.0		ug/L	1	6/17/2020 07:37 PM
1,2-Dichloroethane	ND	0.16	0.50		ug/L	1	6/17/2020 07:37 PM
1,2-Dichloropropane	ND	0.16	1.0		ug/L	1	6/17/2020 07:37 PM
1,3-Dichlorobenzene	ND	0.081	1.0		ug/L	1	6/17/2020 07:37 PM
1,4-Dichlorobenzene	ND	0.080	1.0		ug/L	1	6/17/2020 07:37 PM
2-Butanone	ND	4.7	10		ug/L	1	6/17/2020 07:37 PM
2-Chloroethyl vinyl ether	ND	0.29	1.0		ug/L	1	6/17/2020 07:37 PM
Benzene	ND	0.11	1.0		ug/L	1	6/17/2020 07:37 PM
Bromodichloromethane	ND	0.20	1.0		ug/L	1	6/17/2020 07:37 PM
Bromoform	ND	0.23	1.0		ug/L	1	6/17/2020 07:37 PM
Bromomethane	ND	0.38	1.0		ug/L	1	6/17/2020 07:37 PM
Carbon tetrachloride	ND	0.33	0.50		ug/L	1	6/17/2020 07:37 PM
Chlorobenzene	ND	0.11	1.0		ug/L	1	6/17/2020 07:37 PM
Chloroethane	ND	0.69	1.0		ug/L	1	6/17/2020 07:37 PM
Chloroform	ND	0.38	1.0		ug/L	1	6/17/2020 07:37 PM
Chloromethane	ND	0.23	1.0		ug/L	1	6/17/2020 07:37 PM
cis-1,3-Dichloropropene	ND	0.16	1.0		ug/L	1	6/17/2020 07:37 PM
Di-isopropyl ether	ND	0.15	1.0		ug/L	1	6/17/2020 07:37 PM
Dibromochloromethane	ND	0.23	1.0		ug/L	1	6/17/2020 07:37 PM
Ethylbenzene	ND	0.11	1.0		ug/L	1	6/17/2020 07:37 PM
Hexachlorobutadiene	ND	0.30	1.0		ug/L	1	6/17/2020 07:37 PM
m,p-Xylene	ND	0.23	1.0		ug/L	1	6/17/2020 07:37 PM
Methylene chloride	ND	1.2	2.0		ug/L	1	6/17/2020 07:37 PM
MTBE	ND	0.44	1.0		ug/L	1	6/17/2020 07:37 PM
Naphthalene	ND	0.41	1.0		ug/L	1	6/17/2020 07:37 PM
o-Xylene	ND	0.087	1.0		ug/L	1	6/17/2020 07:37 PM
Tert-amyl methyl ether	ND	0.13	1.0		ug/L	1	6/17/2020 07:37 PM
Tert-Butanol	ND	2.8	5.0		ug/L	1	6/17/2020 07:37 PM
Tetrachloroethene	ND	0.25	1.0		ug/L	1	6/17/2020 07:37 PM
Toluene	ND	0.13	2.0		ug/L	1	6/17/2020 07:37 PM

Qualifiers:

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

CLIENT: CH2MHill
Lab Order: N040965
Project: SFPP Norwalk
Lab ID: N040965-002

Client Sample ID: RSW-001-06-11-20
Collection Date: 6/11/2020 2:20:00 PM
Matrix: WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 8260B							
RunID: **CA01638-MS10_200617A** QC Batch: **CA20VW076** PrepDate: Analyst: **AW**							
trans-1,2-Dichloroethene	ND	0.27	1.0		ug/L	1	6/17/2020 07:37 PM
trans-1,3-Dichloropropene	ND	0.12	1.0		ug/L	1	6/17/2020 07:37 PM
Trichloroethene	ND	0.26	1.0		ug/L	1	6/17/2020 07:37 PM
Vinyl chloride	ND	0.19	0.50		ug/L	1	6/17/2020 07:37 PM
Xylenes, Total	ND	1.5	2.0		ug/L	1	6/17/2020 07:37 PM
Surr: 1,2-Dichloroethane-d4	92.6	0	72-119		%REC	1	6/17/2020 07:37 PM
Surr: 4-Bromofluorobenzene	103	0	76-119		%REC	1	6/17/2020 07:37 PM
Surr: Dibromofluoromethane	90.8	0	85-115		%REC	1	6/17/2020 07:37 PM
Surr: Toluene-d8	99.7	0	81-120		%REC	1	6/17/2020 07:37 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 8260B							
RunID: **CA01638-MS10_200617A** QC Batch: **CA20VW076** PrepDate: Analyst: **AW**							
2-Chloroethyl vinyl ether	ND	0.29	1.0		µg/L	1	6/17/2020 07:37 PM
Surr: 1,2-Dichloroethane-d4	94.1	0	75-130		%REC	1	6/17/2020 07:37 PM
Surr: 4-Bromofluorobenzene	105	0	80-120		%REC	1	6/17/2020 07:37 PM
Surr: Dibromofluoromethane	93.4	0	80-128		%REC	1	6/17/2020 07:37 PM
Surr: Toluene-d8	103	0	80-120		%REC	1	6/17/2020 07:37 PM
HEXAVALENT CHROMIUM BY IC							
EPA 7199							
RunID: **CA01638-IC01_200611A** QC Batch: **R145121** PrepDate: Analyst: **AG**							
Hexavalent Chromium	0.19	0.033	0.20	J	µg/L	1	6/11/2020 08:44 PM
MERCURY BY COLD VAPOR TECHNIQUE							
EPA 245.1							
RunID: **NV00922-AA2_200612A** QC Batch: **79680** PrepDate: **6/12/2020** Analyst: **DJ**							
Mercury	ND	0.018	0.050		µg/L	1	6/12/2020 04:22 PM
TOTAL METALS BY ICP							
EPA 200.7							
RunID: **NV00922-ICP2_200612C** QC Batch: **79679** PrepDate: **6/12/2020** Analyst: **DJ**							
Calcium	44000	85	500		µg/L	1	6/12/2020 04:11 PM
Magnesium	32000	48	100		µg/L	1	6/12/2020 04:11 PM

Qualifiers:

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

CLIENT:	CH2MHill	**Client Sample ID:**	RSW-001-06-11-20
Lab Order:	N040965	**Collection Date:**	6/11/2020 2:20:00 PM
Project:	SFPP Norwalk	**Matrix:**	WATER
Lab ID:	N040965-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HARDNESS BY CALCULATION							
SM 2340 B							
RunID: **NV00922-ICP2_200612C** QC Batch: **R145028**				PrepDate:			Analyst: **DJ**
Hardness, Calcium (As CaCO3)	110	0.50	0.50		mg/L	1	6/12/2020
Hardness, Magnesium (As CaCO3)	130	0.50	0.50		mg/L	1	6/12/2020
Total Hardness (As CaCO3)	240	1.0	1.0		mg/L	1	6/12/2020
TOTAL METALS BY COLLISION/REACTION CELL ICPMS							
EPA 200.8							
RunID: **NV00922-ICP8_200613C** QC Batch: **79678**				PrepDate:	**6/12/2020**		Analyst: **CEI**
Selenium	2.4	0.36	0.50		µg/L	1	6/13/2020 10:47 AM
TOTAL METALS BY ICPMS							
EPA 200.8							
RunID: **NV00922-ICP8_200613F** QC Batch: **79678**				PrepDate:	**6/12/2020**		Analyst: **CEI**
Antimony	0.74	0.16	0.50		µg/L	1	6/13/2020 08:45 PM
Arsenic	3.3	0.081	0.10		µg/L	1	6/13/2020 10:47 AM
Beryllium	ND	0.042	0.50		µg/L	1	6/13/2020 10:47 AM
Cadmium	0.13	0.053	0.25	J	µg/L	1	6/13/2020 10:47 AM
Chromium	0.86	0.13	0.50		µg/L	1	6/13/2020 10:47 AM
Copper	4.9	0.26	0.50		µg/L	1	6/13/2020 10:47 AM
Lead	0.83	0.13	0.50		µg/L	1	6/14/2020 08:06 PM
Nickel	ND	0.26	1.0		µg/L	1	6/13/2020 10:47 AM
Silver	ND	0.23	0.25		µg/L	1	6/13/2020 10:47 AM
Thallium	ND	0.19	0.50		µg/L	1	6/13/2020 10:47 AM
Zinc	12	0.27	1.0		µg/L	1	6/14/2020 11:21 AM

Qualifiers:

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

CLIENT: CH2MHill
Lab Order: N040965
Project: SFPP Norwalk
Lab ID: N040965-003

Client Sample ID: RSW-002-06-11-20
Collection Date: 6/11/2020 2:30:00 PM
Matrix: WATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **CA01638-MS10_200617A** QC Batch: **CA20VW076** PrepDate: Analyst: **AW**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	0.20	1.0		ug/L	1	6/17/2020 08:02 PM
1,1,2,2-Tetrachloroethane	ND	0.11	1.0		ug/L	1	6/17/2020 08:02 PM
1,1,2-Trichloroethane	ND	0.23	1.0		ug/L	1	6/17/2020 08:02 PM
1,1-Dichloroethane	ND	0.22	0.50		ug/L	1	6/17/2020 08:02 PM
1,1-Dichloroethene	ND	0.17	1.0		ug/L	1	6/17/2020 08:02 PM
1,2,4-Trichlorobenzene	ND	0.10	1.0		ug/L	1	6/17/2020 08:02 PM
1,2-Dichlorobenzene	ND	0.089	1.0		ug/L	1	6/17/2020 08:02 PM
1,2-Dichloroethane	ND	0.16	0.50		ug/L	1	6/17/2020 08:02 PM
1,2-Dichloropropane	ND	0.16	1.0		ug/L	1	6/17/2020 08:02 PM
1,3-Dichlorobenzene	ND	0.081	1.0		ug/L	1	6/17/2020 08:02 PM
1,4-Dichlorobenzene	ND	0.080	1.0		ug/L	1	6/17/2020 08:02 PM
2-Butanone	ND	4.7	10		ug/L	1	6/17/2020 08:02 PM
Benzene	ND	0.11	1.0		ug/L	1	6/17/2020 08:02 PM
Bromodichloromethane	ND	0.20	1.0		ug/L	1	6/17/2020 08:02 PM
Bromoform	ND	0.23	1.0		ug/L	1	6/17/2020 08:02 PM
Bromomethane	ND	0.38	1.0		ug/L	1	6/17/2020 08:02 PM
Carbon tetrachloride	ND	0.33	0.50		ug/L	1	6/17/2020 08:02 PM
Chlorobenzene	ND	0.11	1.0		ug/L	1	6/17/2020 08:02 PM
Chloroethane	ND	0.69	1.0		ug/L	1	6/17/2020 08:02 PM
Chloroform	ND	0.38	1.0		ug/L	1	6/17/2020 08:02 PM
Chloromethane	ND	0.23	1.0		ug/L	1	6/17/2020 08:02 PM
cis-1,3-Dichloropropene	ND	0.16	1.0		ug/L	1	6/17/2020 08:02 PM
Di-isopropyl ether	ND	0.15	1.0		ug/L	1	6/17/2020 08:02 PM
Dibromochloromethane	ND	0.23	1.0		ug/L	1	6/17/2020 08:02 PM
Ethylbenzene	ND	0.11	1.0		ug/L	1	6/17/2020 08:02 PM
Hexachlorobutadiene	ND	0.30	1.0		ug/L	1	6/17/2020 08:02 PM
m,p-Xylene	ND	0.23	1.0		ug/L	1	6/17/2020 08:02 PM
Methylene chloride	ND	1.2	2.0		ug/L	1	6/17/2020 08:02 PM
MTBE	ND	0.44	1.0		ug/L	1	6/17/2020 08:02 PM
Naphthalene	ND	0.41	1.0		ug/L	1	6/17/2020 08:02 PM
o-Xylene	ND	0.087	1.0		ug/L	1	6/17/2020 08:02 PM
Tert-amyl methyl ether	ND	0.13	1.0		ug/L	1	6/17/2020 08:02 PM
Tert-Butanol	ND	2.8	5.0		ug/L	1	6/17/2020 08:02 PM
Tetrachloroethene	ND	0.25	1.0		ug/L	1	6/17/2020 08:02 PM
Toluene	ND	0.13	2.0		ug/L	1	6/17/2020 08:02 PM
trans-1,2-Dichloroethene	ND	0.27	1.0		ug/L	1	6/17/2020 08:02 PM

Qualifiers:

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

CLIENT: CH2MHill
Lab Order: N040965
Project: SFPP Norwalk
Lab ID: N040965-003

Client Sample ID: RSW-002-06-11-20
Collection Date: 6/11/2020 2:30:00 PM
Matrix: WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 8260B							
RunID: **CA01638-MS10_200617A** QC Batch: **CA20VW076** PrepDate: Analyst: **AW**							
trans-1,3-Dichloropropene	ND	0.12	1.0		ug/L	1	6/17/2020 08:02 PM
Trichloroethene	ND	0.26	1.0		ug/L	1	6/17/2020 08:02 PM
Vinyl chloride	ND	0.19	0.50		ug/L	1	6/17/2020 08:02 PM
Xylenes, Total	ND	1.5	2.0		ug/L	1	6/17/2020 08:02 PM
Surr: 1,2-Dichloroethane-d4	94.5	0	72-119		%REC	1	6/17/2020 08:02 PM
Surr: 4-Bromofluorobenzene	96.6	0	76-119		%REC	1	6/17/2020 08:02 PM
Surr: Dibromofluoromethane	91.0	0	85-115		%REC	1	6/17/2020 08:02 PM
Surr: Toluene-d8	96.6	0	81-120		%REC	1	6/17/2020 08:02 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 8260B							
RunID: **CA01638-MS10_200617A** QC Batch: **CA20VW076** PrepDate: Analyst: **AW**							
2-Chloroethyl vinyl ether	ND	0.29	1.0		µg/L	1	6/17/2020 08:02 PM
Surr: 1,2-Dichloroethane-d4	96.0	0	75-130		%REC	1	6/17/2020 08:02 PM
Surr: 4-Bromofluorobenzene	98.6	0	80-120		%REC	1	6/17/2020 08:02 PM
Surr: Dibromofluoromethane	93.6	0	80-128		%REC	1	6/17/2020 08:02 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	6/17/2020 08:02 PM
HEXAVALENT CHROMIUM BY IC							
EPA 7199							
RunID: **CA01638-IC01_200611A** QC Batch: **R145121** PrepDate: Analyst: **AG**							
Hexavalent Chromium	0.21	0.033	0.20		µg/L	1	6/11/2020 08:56 PM
MERCURY BY COLD VAPOR TECHNIQUE							
EPA 245.1							
RunID: **NV00922-AA2_200612A** QC Batch: **79680** PrepDate: **6/12/2020** Analyst: **DJ**							
Mercury	ND	0.018	0.050		µg/L	1	6/12/2020 03:54 PM
TOTAL METALS BY ICP							
EPA 200.7							
RunID: **NV00922-ICP2_200612C** QC Batch: **79679** PrepDate: **6/12/2020** Analyst: **DJ**							
Calcium	46000	85	500		µg/L	1	6/12/2020 04:50 PM
Magnesium	33000	48	100		µg/L	1	6/12/2020 04:50 PM

Qualifiers:

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

CLIENT: CH2MHill
Lab Order: N040965
Project: SFPP Norwalk
Lab ID: N040965-003

Client Sample ID: RSW-002-06-11-20
Collection Date: 6/11/2020 2:30:00 PM
Matrix: WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HARDNESS BY CALCULATION							
SM 2340 B							
RunID: **NV00922-ICP2_200612C** QC Batch: **R145028** PrepDate: Analyst: **DJ**							
Hardness, Calcium (As CaCO3)	110	0.50	0.50		mg/L	1	6/12/2020
Hardness, Magnesium (As CaCO3)	130	0.50	0.50		mg/L	1	6/12/2020
Total Hardness (As CaCO3)	250	1.0	1.0		mg/L	1	6/12/2020
TOTAL METALS BY COLLISION/REACTION CELL ICPMS							
EPA 200.8							
RunID: **NV00922-ICP8_200613C** QC Batch: **79678** PrepDate: **6/12/2020** Analyst: **CEI**							
Selenium	2.6	0.36	0.50		µg/L	1	6/13/2020 10:51 AM
TOTAL METALS BY ICPMS							
EPA 200.8							
RunID: **NV00922-ICP8_200613F** QC Batch: **79678** PrepDate: **6/12/2020** Analyst: **CEI**							
Antimony	0.73	0.16	0.50		µg/L	1	6/13/2020 08:50 PM
Arsenic	3.3	0.081	0.10		µg/L	1	6/13/2020 10:51 AM
Beryllium	ND	0.042	0.50		µg/L	1	6/13/2020 10:51 AM
Cadmium	0.14	0.053	0.25	J	µg/L	1	6/13/2020 10:51 AM
Chromium	0.83	0.13	0.50		µg/L	1	6/13/2020 10:51 AM
Copper	5.5	0.26	0.50		µg/L	1	6/13/2020 10:51 AM
Lead	1.1	0.13	0.50		µg/L	1	6/14/2020 08:11 PM
Nickel	ND	0.26	1.0		µg/L	1	6/13/2020 10:51 AM
Silver	ND	0.23	0.25		µg/L	1	6/13/2020 10:51 AM
Thallium	ND	0.19	0.50		µg/L	1	6/13/2020 10:51 AM
Zinc	15	0.27	1.0		µg/L	1	6/14/2020 11:26 AM

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID: **N040965-001GDUP** SampType: **DUP** TestCode: **150.1_4500H+** Units: **pH Units** Prep Date: RunNo: **145023**
Client ID: **ZZZZZZ** Batch ID: **R145023** TestNo: **SM4500-H+B** Analysis Date: **6/12/2020** SeqNo: **3815485**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.430	0.10						7.420	0.135	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **MB-79707**	SampType: **MBLK**	TestCode: **160.2_2540D_**	Units: **mg/L**	Prep Date: **6/12/2020**	RunNo: **145080**
Client ID: **PBW**	Batch ID: **79707**	TestNo: **SM2540D**		Analysis Date: **6/12/2020**	SeqNo: **3818124**

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: **LCS-79707**	SampType: **LCS**	TestCode: **160.2_2540D_**	Units: **mg/L**	Prep Date: **6/12/2020**	RunNo: **145080**
Client ID: **LCSW**	Batch ID: **79707**	TestNo: **SM2540D**		Analysis Date: **6/12/2020**	SeqNo: **3818125**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterab	1076.000	10	1000	0	108	80	120				

Sample ID: **N040908-001BDUP**	SampType: **DUP**	TestCode: **160.2_2540D_**	Units: **mg/L**	Prep Date: **6/12/2020**	RunNo: **145080**
Client ID: **ZZZZZZ**	Batch ID: **79707**	TestNo: **SM2540D**		Analysis Date: **6/12/2020**	SeqNo: **3818127**

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	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.5_2540F_W

Sample ID: **MB-79711**	SampType: **MBLK**	TestCode: **160.5_2540F_**	Units: **ml/L**		Prep Date: **6/11/2020**		RunNo: **145084**					
Client ID: **PBW**	Batch ID: **79711**	TestNo: **SM2540F**			Analysis Date: **6/11/2020**		SeqNo: **3818171**					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Settleable Matter	ND	0.10										

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_HEM_W

Sample ID: **MB-79706**	SampType: **MBLK**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **6/15/2020**	RunNo: **145083**
Client ID: **PBW**	Batch ID: **79706**	TestNo: **EPA 1664 _HE**		Analysis Date: **6/15/2020**	SeqNo: **3818160**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	ND	4.0									

Sample ID: **LCS-79706**	SampType: **LCS**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **6/15/2020**	RunNo: **145083**
Client ID: **LCSW**	Batch ID: **79706**	TestNo: **EPA 1664 _HE**		Analysis Date: **6/15/2020**	SeqNo: **3818161**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	35.400	4.0	40.00	0	88.5	78	114				

Sample ID: **LCSD-79706**	SampType: **LCSD**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **6/15/2020**	RunNo: **145083**
Client ID: **LCSS02**	Batch ID: **79706**	TestNo: **EPA 1664 _HE**		Analysis Date: **6/15/2020**	SeqNo: **3818162**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	34.300	4.0	40.00	0	85.8	78	114	35.40	3.16	18	

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WPGEPPB

Sample ID: **MB-79679**	SampType: **MBLK**	TestCode: **200.7_WPGE**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145028**
Client ID: **PBW**	Batch ID: **79679**	TestNo: **EPA 200.7**		Analysis Date: **6/12/2020**	SeqNo: **3815545**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	172.666	500									J
Magnesium	ND	100									

Sample ID: **LCS-79679**	SampType: **LCS**	TestCode: **200.7_WPGE**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145028**
Client ID: **LCSW**	Batch ID: **79679**	TestNo: **EPA 200.7**		Analysis Date: **6/12/2020**	SeqNo: **3815546**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	10316.725	500	10000	0	103	85	115				
Magnesium	10541.203	100	10000	0	105	85	115				

Sample ID: **N040965-002B-DUP**	SampType: **DUP**	TestCode: **200.7_WPGE**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145028**
Client ID: **ZZZZZZ**	Batch ID: **79679**	TestNo: **EPA 200.7**		Analysis Date: **6/12/2020**	SeqNo: **3815551**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	43446.257	500						43640	0.434	20	
Magnesium	32252.072	100						32440	0.590	20	

Sample ID: **N040965-002B-MS**	SampType: **MS**	TestCode: **200.7_WPGE**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145028**
Client ID: **ZZZZZZ**	Batch ID: **79679**	TestNo: **EPA 200.7**		Analysis Date: **6/12/2020**	SeqNo: **3815553**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	57129.940	500	10000	43640	135	75	125				S
Magnesium	44940.436	100	10000	32440	125	75	125				

Sample ID: **N040965-002B-MSD**	SampType: **MSD**	TestCode: **200.7_WPGE**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145028**
Client ID: **ZZZZZZ**	Batch ID: **79679**	TestNo: **EPA 200.7**		Analysis Date: **6/12/2020**	SeqNo: **3815554**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	59084.499	500	10000	43640	154	75	125	57130	3.36	20	S

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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WPGEPPB

Sample ID: **N040965-002B-MSD** SampType: **MSD** TestCode: **200.7_WPGE** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145028**
Client ID: **ZZZZZZ** Batch ID: **79679** TestNo: **EPA 200.7** Analysis Date: **6/12/2020** SeqNo: **3815554**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	46098.698	100	10000	32440	137	75	125	44940	2.54	20	S

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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_DRC

Sample ID: **MB-79678**	SampType: **MBLK**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145041**
Client ID: **PBW**	Batch ID: **79678**	TestNo: **EPA 200.8**		Analysis Date: **6/13/2020**	SeqNo: **3816210**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	0.50									

Sample ID: **LCS-79678**	SampType: **LCS**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145041**
Client ID: **LCSW**	Batch ID: **79678**	TestNo: **EPA 200.8**		Analysis Date: **6/13/2020**	SeqNo: **3816211**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	10.547	0.50	10.00	0	105	85	115				

Sample ID: **N040965-001D-DUP**	SampType: **DUP**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145041**
Client ID: **ZZZZZZ**	Batch ID: **79678**	TestNo: **EPA 200.8**		Analysis Date: **6/13/2020**	SeqNo: **3816216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.909	0.50						0.8704	4.34	20	

Sample ID: **N040965-001D-MS**	SampType: **MS**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145041**
Client ID: **ZZZZZZ**	Batch ID: **79678**	TestNo: **EPA 200.8**		Analysis Date: **6/13/2020**	SeqNo: **3816218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	11.100	0.50	10.00	0.8704	102	75	125				

Sample ID: **N040965-001D-MSD**	SampType: **MSD**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145041**
Client ID: **ZZZZZZ**	Batch ID: **79678**	TestNo: **EPA 200.8**		Analysis Date: **6/13/2020**	SeqNo: **3816219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	10.811	0.50	10.00	0.8704	99.4	75	125	11.10	2.64	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **MB-79678** SampType: **MBLK** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145041**
Client ID: **PBW** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/13/2020** SeqNo: **3816296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Beryllium	ND	0.50									
Cadmium	ND	0.25									
Chromium	ND	0.50									
Copper	ND	0.50									
Lead	ND	0.50									
Nickel	ND	1.0									
Silver	ND	0.25									
Thallium	ND	0.50									

Sample ID: **LCS-79678** SampType: **LCS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145041**
Client ID: **LCSW** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/13/2020** SeqNo: **3816297**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.987	0.10	10.00	0	99.9	85	115				
Beryllium	10.266	0.50	10.00	0	103	85	115				
Cadmium	10.478	0.25	10.00	0	105	85	115				
Chromium	9.770	0.50	10.00	0	97.7	85	115				
Copper	9.630	0.50	10.00	0	96.3	85	115				
Lead	10.351	0.50	10.00	0	104	85	115				
Nickel	9.779	1.0	10.00	0	97.8	85	115				
Silver	10.916	0.25	10.00	0	109	85	115				
Thallium	9.992	0.50	10.00	0	99.9	85	115				

Sample ID: **N040965-001D-DUP** SampType: **DUP** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145041**
Client ID: **ZZZZZZ** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/13/2020** SeqNo: **3816302**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	14.289	0.10						14.23	0.418	20	
Beryllium	ND	0.50						0	0	20	

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **N040965-001D-DUP** SampType: **DUP** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145041**
Client ID: **ZZZZZZ** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/13/2020** SeqNo: **3816302**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	ND	0.25						0	0	20	
Chromium	ND	0.50						0	0	20	
Copper	ND	0.50						0	0	20	
Lead	ND	0.50						0	0	20	
Nickel	ND	1.0						0	0	20	
Silver	ND	0.25						0	0	20	
Thallium	ND	0.50						0	0	20	

Sample ID: **N040965-001D-MS** SampType: **MS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145041**
Client ID: **ZZZZZZ** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/13/2020** SeqNo: **3816304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	24.262	0.10	10.00	14.23	100	75	125				
Beryllium	9.273	0.50	10.00	0	92.7	75	125				
Cadmium	10.353	0.25	10.00	0	104	75	125				
Chromium	9.244	0.50	10.00	0	92.4	75	125				
Copper	8.720	0.50	10.00	0	87.2	75	125				
Lead	10.114	0.50	10.00	0	101	75	125				
Nickel	5.746	1.0	10.00	0	57.5	75	125				S
Silver	10.410	0.25	10.00	0	104	75	125				
Thallium	8.740	0.50	10.00	0	87.4	75	125				

Sample ID: **N040965-001D-MSD** SampType: **MSD** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145041**
Client ID: **ZZZZZZ** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/13/2020** SeqNo: **3816305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	24.150	0.10	10.00	14.23	99.2	75	125	24.26	0.462	20	
Beryllium	9.363	0.50	10.00	0	93.6	75	125	9.273	0.968	20	
Cadmium	10.274	0.25	10.00	0	103	75	125	10.35	0.765	20	
Chromium	9.258	0.50	10.00	0	92.6	75	125	9.244	0.148	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **N040965-001D-MSD** SampType: **MSD** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145041**
Client ID: **ZZZZZZ** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/13/2020** SeqNo: **3816305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	8.609	0.50	10.00	0	86.1	75	125	8.720	1.29	20	
Lead	10.164	0.50	10.00	0	102	75	125	10.11	0.495	20	
Nickel	5.680	1.0	10.00	0	56.8	75	125	5.746	1.16	20	S
Silver	9.963	0.25	10.00	0	99.6	75	125	10.41	4.38	20	
Thallium	8.943	0.50	10.00	0	89.4	75	125	8.740	2.29	20	

Sample ID: **MB-79678** SampType: **MBLK** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145044**
Client ID: **PBW** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/13/2020** SeqNo: **3816751**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.50									

Sample ID: **LCS-79678** SampType: **LCS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145044**
Client ID: **LCSW** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/13/2020** SeqNo: **3816752**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	9.768	0.50	10.00	0	97.7	85	115				

Sample ID: **N040965-001D-DUP** SampType: **DUP** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145044**
Client ID: **ZZZZZZ** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/13/2020** SeqNo: **3816755**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.483	0.50						0.4914	0	20	J

Sample ID: **N040965-001D-MS** SampType: **MS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145044**
Client ID: **ZZZZZZ** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/13/2020** SeqNo: **3816757**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	11.794	0.50	10.00	0.4914	113	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **N040965-001D-MSD** SampType: **MSD** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145044**
Client ID: **ZZZZZZ** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/13/2020** SeqNo: **3816758**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	11.875	0.50	10.00	0.4914	114	75	125	11.79	0.679	20	

Sample ID: **MB-79678** SampType: **MBLK** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145045**
Client ID: **PBW** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/14/2020** SeqNo: **3816845**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	ND	1.0									

Sample ID: **LCS-79678** SampType: **LCS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145045**
Client ID: **LCSW** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/14/2020** SeqNo: **3816846**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	10.540	1.0	10.00	0	105	85	115				

Sample ID: **N040965-001D-DUP** SampType: **DUP** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145045**
Client ID: **ZZZZZZ** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/14/2020** SeqNo: **3816849**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	3.580	1.0						3.440	3.97	20	

Sample ID: **N040965-001D-MS** SampType: **MS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145045**
Client ID: **ZZZZZZ** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/14/2020** SeqNo: **3816851**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	13.650	1.0	100.0	3.440	10.2	75	125				S

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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **N040965-001D-MSD** SampType: **MSD** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/12/2020** RunNo: **145045**
Client ID: **ZZZZZZ** Batch ID: **79678** TestNo: **EPA 200.8** Analysis Date: **6/14/2020** SeqNo: **3816852**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	13.637	1.0	100.0	3.440	10.2	75	125	13.65	0.0976	20	S

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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 2130_W

Sample ID: **MB-R145026**	SampType: **MBLK**	TestCode: **2130_W**	Units: **NTU**	Prep Date:	RunNo: **145026**
Client ID: **PBW**	Batch ID: **R145026**	TestNo: **SM 2130B**		Analysis Date: **6/12/2020**	SeqNo: **3815508**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	ND	0.10									

Sample ID: **N040965-001GDUP**	SampType: **DUP**	TestCode: **2130_W**	Units: **NTU**	Prep Date:	RunNo: **145026**
Client ID: **ZZZZZZ**	Batch ID: **R145026**	TestNo: **SM 2130B**		Analysis Date: **6/12/2020**	SeqNo: **3815510**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	0.280	0.10						0.2800	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

CLIENT: CH2MHill
Work Order: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: **MB-79680**	SampType: **MBLK**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145027**
Client ID: **PBW**	Batch ID: **79680**	TestNo: **EPA 245.1**		Analysis Date: **6/12/2020**	SeqNo: **3815527**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.050									

Sample ID: **LCS-79680**	SampType: **LCS**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145027**
Client ID: **LCSW**	Batch ID: **79680**	TestNo: **EPA 245.1**		Analysis Date: **6/12/2020**	SeqNo: **3815528**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.650	0.050	2.500	0	106	85	115				

Sample ID: **N040965-003B-DUP**	SampType: **DUP**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145027**
Client ID: **ZZZZZZ**	Batch ID: **79680**	TestNo: **EPA 245.1**		Analysis Date: **6/12/2020**	SeqNo: **3815531**

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: **N040965-003B-MS**	SampType: **MS**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145027**
Client ID: **ZZZZZZ**	Batch ID: **79680**	TestNo: **EPA 245.1**		Analysis Date: **6/12/2020**	SeqNo: **3815533**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.580	0.050	2.500	0	103	75	125				

Sample ID: **N040965-003B-MSD**	SampType: **MSD**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **6/12/2020**	RunNo: **145027**
Client ID: **ZZZZZZ**	Batch ID: **79680**	TestNo: **EPA 245.1**		Analysis Date: **6/12/2020**	SeqNo: **3815534**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.670	0.050	2.500	0	107	75	125	2.580	3.43	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_NO2PGE

Sample ID: **MB-R145047_NO2**	SampType: **MBLK**	TestCode: **300_W_NO2P**	Units: **mg/L**	Prep Date:	RunNo: **145047**
Client ID: **PBW**	Batch ID: **R145047**	TestNo: **EPA 300.0**		Analysis Date: **6/12/2020**	SeqNo: **3817143**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	ND	0.50									

Sample ID: **LCS-R145047_NO2**	SampType: **LCS**	TestCode: **300_W_NO2P**	Units: **mg/L**	Prep Date:	RunNo: **145047**
Client ID: **LCSW**	Batch ID: **R145047**	TestNo: **EPA 300.0**		Analysis Date: **6/12/2020**	SeqNo: **3817144**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	1.238	0.50	1.250	0	99.0	90	110				

Sample ID: **N040965-001GDUP**	SampType: **DUP**	TestCode: **300_W_NO2P**	Units: **mg/L**	Prep Date:	RunNo: **145047**
Client ID: **ZZZZZZ**	Batch ID: **R145047**	TestNo: **EPA 300.0**		Analysis Date: **6/12/2020**	SeqNo: **3817148**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	ND	2.5						0	0	20	

Sample ID: **N040965-001GMS**	SampType: **MS**	TestCode: **300_W_NO2P**	Units: **mg/L**	Prep Date:	RunNo: **145047**
Client ID: **ZZZZZZ**	Batch ID: **R145047**	TestNo: **EPA 300.0**		Analysis Date: **6/12/2020**	SeqNo: **3817149**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	7.395	2.5	6.250	0	118	80	120				

Sample ID: **N040965-001GMSD**	SampType: **MSD**	TestCode: **300_W_NO2P**	Units: **mg/L**	Prep Date:	RunNo: **145047**
Client ID: **ZZZZZZ**	Batch ID: **R145047**	TestNo: **EPA 300.0**		Analysis Date: **6/12/2020**	SeqNo: **3817150**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	7.281	2.5	6.250	0	116	80	120	7.395	1.55	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_NO3/NO2

Sample ID: **MB-R145047_NO3/N** SampType: **MBLK** TestCode: **300_W_NO3/** Units: **mg/L** Prep Date: RunNo: **145047**
Client ID: **PBW** Batch ID: **R145047** TestNo: **EPA 300.0** Analysis Date: **6/12/2020** SeqNo: **3817159**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.10									

Sample ID: **LCS-R145047_NO3/N** SampType: **LCS** TestCode: **300_W_NO3/** Units: **mg/L** Prep Date: RunNo: **145047**
Client ID: **LCSW** Batch ID: **R145047** TestNo: **EPA 300.0** Analysis Date: **6/12/2020** SeqNo: **3817160**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	2.497	0.10	2.500	0	99.9	90	110				

Sample ID: **N040965-001GDUP** SampType: **DUP** TestCode: **300_W_NO3/** Units: **mg/L** Prep Date: RunNo: **145047**
Client ID: **ZZZZZZ** Batch ID: **R145047** TestNo: **EPA 300.0** Analysis Date: **6/12/2020** SeqNo: **3817164**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.286	0.50						0.2950	0	20	J

Sample ID: **N040965-001GMS** SampType: **MS** TestCode: **300_W_NO3/** Units: **mg/L** Prep Date: RunNo: **145047**
Client ID: **ZZZZZZ** Batch ID: **R145047** TestNo: **EPA 300.0** Analysis Date: **6/12/2020** SeqNo: **3817165**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	13.920	0.50	12.50	0.2950	109	80	120				

Sample ID: **N040965-001GMSD** SampType: **MSD** TestCode: **300_W_NO3/** Units: **mg/L** Prep Date: RunNo: **145047**
Client ID: **ZZZZZZ** Batch ID: **R145047** TestNo: **EPA 300.0** Analysis Date: **6/12/2020** SeqNo: **3817166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	13.809	0.50	12.50	0.2950	108	80	120	13.92	0.801	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: **MB-R145047_NO3** SampType: **MBLK** TestCode: **300WLLNO3P** Units: **mg/L** Prep Date: RunNo: **145047**
Client ID: **PBW** Batch ID: **R145047** TestNo: **EPA 300.0** Analysis Date: **6/12/2020** SeqNo: **3817122**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Sample ID: **LCS-R145047_NO3** SampType: **LCS** TestCode: **300WLLNO3P** Units: **mg/L** Prep Date: RunNo: **145047**
Client ID: **LCSW** Batch ID: **R145047** TestNo: **EPA 300.0** Analysis Date: **6/12/2020** SeqNo: **3817123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.259	0.050	1.250	0	101	90	110				

Sample ID: **N040965-001GDUP** SampType: **DUP** TestCode: **300WLLNO3P** Units: **mg/L** Prep Date: RunNo: **145047**
Client ID: **ZZZZZZ** Batch ID: **R145047** TestNo: **EPA 300.0** Analysis Date: **6/12/2020** SeqNo: **3817132**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	0.286	0.25						0.2950	3.10	20	

Sample ID: **N040965-001GMS** SampType: **MS** TestCode: **300WLLNO3P** Units: **mg/L** Prep Date: RunNo: **145047**
Client ID: **ZZZZZZ** Batch ID: **R145047** TestNo: **EPA 300.0** Analysis Date: **6/12/2020** SeqNo: **3817133**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	6.525	0.25	6.250	0.2950	99.7	80	120				

Sample ID: **N040965-001GMSD** SampType: **MSD** TestCode: **300WLLNO3P** Units: **mg/L** Prep Date: RunNo: **145047**
Client ID: **ZZZZZZ** Batch ID: **R145047** TestNo: **EPA 300.0** Analysis Date: **6/12/2020** SeqNo: **3817134**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	6.528	0.25	6.250	0.2950	99.7	80	120	6.525	0.0460	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_WPGE

Sample ID: **LCS1-R145121** SampType: **LCS** TestCode: **7199_WPGE** Units: **µg/L** Prep Date: RunNo: **145121**
Client ID: **LCSW** Batch ID: **R145121** TestNo: **EPA 7199** Analysis Date: **6/11/2020** SeqNo: **3819221**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.143	0.20	5.000	0	103	90	110				

Sample ID: **MB-R145121** SampType: **MBLK** TestCode: **7199_WPGE** Units: **µg/L** Prep Date: RunNo: **145121**
Client ID: **PBW** Batch ID: **R145121** TestNo: **EPA 7199** Analysis Date: **6/11/2020** SeqNo: **3819222**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **N040965-002DDUP** SampType: **DUP** TestCode: **7199_WPGE** Units: **µg/L** Prep Date: RunNo: **145121**
Client ID: **ZZZZZZ** Batch ID: **R145121** TestNo: **EPA 7199** Analysis Date: **6/11/2020** SeqNo: **3819226**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.188	0.20						0.1873	0	20	J

Sample ID: **N040965-002DMS** SampType: **MS** TestCode: **7199_WPGE** Units: **µg/L** Prep Date: RunNo: **145121**
Client ID: **ZZZZZZ** Batch ID: **R145121** TestNo: **EPA 7199** Analysis Date: **6/11/2020** SeqNo: **3819227**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.322	0.20	5.000	0.1873	103	90	110				

Sample ID: **N040965-002DMSD** SampType: **MSD** TestCode: **7199_WPGE** Units: **µg/L** Prep Date: RunNo: **145121**
Client ID: **ZZZZZZ** Batch ID: **R145121** TestNo: **EPA 7199** Analysis Date: **6/11/2020** SeqNo: **3819228**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.355	0.20	5.000	0.1873	103	90	110	5.322	0.624	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: **MB-79686**	SampType: **MBLK**	TestCode: **8015_W_FP_**	Units: **ug/L**	Prep Date: **6/12/2020**	RunNo: **145055**
Client ID: **PBW**	Batch ID: **79686**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **6/13/2020**	SeqNo: **3817371**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	16.307	25									J
Surr: Octacosane	94.814		80.00		119	26	152				
Surr: p-Terphenyl	99.822		80.00		125	57	132				

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: **MB-R145055** SampType: **MBLK** TestCode: **8015_W_SFP** Units: **ug/L** Prep Date: RunNo: **145055**
Client ID: **PBW** Batch ID: **R145055** TestNo: **EPA 8015B** Analysis Date: **6/13/2020** SeqNo: **3818165**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	51.000	100									J

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: **E200612LCS** SampType: **LCS** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **145065**
Client ID: **LCSW** Batch ID: **E20VW052** TestNo: **EPA 8015B** Analysis Date: **6/12/2020** SeqNo: **3817540**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1149.000	50	1000	0	115	67	136				
Surr: Chlorobenzene - d5	47054.000		50000		94.1	74	138				

Sample ID: **E200612MB** SampType: **MBLK** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **145065**
Client ID: **PBW** Batch ID: **E20VW052** TestNo: **EPA 8015B** Analysis Date: **6/12/2020** SeqNo: **3817541**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	35.000	50									J
Surr: Chlorobenzene - d5	51727.000		50000		103	74	138				

Sample ID: **N040965-001BMS** SampType: **MS** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **145065**
Client ID: **ZZZZZZ** Batch ID: **E20VW052** TestNo: **EPA 8015B** Analysis Date: **6/12/2020** SeqNo: **3817543**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1025.000	50	1000	33.00	99.2	67	136				
Surr: Chlorobenzene - d5	48591.000		50000		97.2	74	138				

Sample ID: **N040965-001BMSD** SampType: **MSD** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **145065**
Client ID: **ZZZZZZ** Batch ID: **E20VW052** TestNo: **EPA 8015B** Analysis Date: **6/12/2020** SeqNo: **3817544**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	930.000	50	1000	33.00	89.7	67	136	1025	9.72	30	
Surr: Chlorobenzene - d5	47349.000		50000		94.7	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **CA200617-LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **145143**
Client ID: **LCSW** Batch ID: **CA20VW076** TestNo: **EPA 8260B** Analysis Date: **6/17/2020** SeqNo: **3820521**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	20.070	1.0	20.00	0	100	67	132				
1,1,2,2-Tetrachloroethane	19.040	1.0	20.00	0	95.2	63	128				
1,1,2-Trichloroethane	20.720	1.0	20.00	0	104	75	125				
1,1-Dichloroethane	21.330	0.50	20.00	0	107	69	133				
1,1-Dichloroethene	20.330	1.0	20.00	0	102	68	130				
1,2,4-Trichlorobenzene	21.240	1.0	20.00	0	106	66	134				
1,2-Dichlorobenzene	20.980	1.0	20.00	0	105	71	122				
1,2-Dichloroethane	20.510	0.50	20.00	0	103	69	132				
1,2-Dichloropropane	19.910	1.0	20.00	0	99.6	75	125				
1,3-Dichlorobenzene	20.160	1.0	20.00	0	101	75	124				
1,4-Dichlorobenzene	21.020	1.0	20.00	0	105	74	123				
2-Butanone	214.150	10	200.0	0	107	49	136				
Benzene	20.270	1.0	20.00	0	101	81	122				
Bromodichloromethane	20.030	1.0	20.00	0	100	76	121				
Bromoform	17.990	1.0	20.00	0	90.0	69	128				
Bromomethane	20.710	1.0	20.00	0	104	53	141				
Carbon tetrachloride	19.920	0.50	20.00	0	99.6	66	138				
Chlorobenzene	21.420	1.0	20.00	0	107	81	122				
Chloroethane	22.020	1.0	20.00	0	110	58	133				
Chloroform	22.170	1.0	20.00	0	111	69	128				
Chloromethane	23.270	1.0	20.00	0	116	56	131				
cis-1,3-Dichloropropene	20.070	1.0	20.00	0	100	69	131				
Di-isopropyl ether	19.180	1.0	20.00	0	95.9	70	130				
Dibromochloromethane	18.680	1.0	20.00	0	93.4	66	133				
Ethylbenzene	20.590	1.0	20.00	0	103	73	127				
Hexachlorobutadiene	19.000	1.0	20.00	0	95.0	67	131				
m,p-Xylene	42.660	1.0	40.00	0	107	76	128				
Methylene chloride	20.020	2.0	20.00	0	100	63	137				
MTBE	19.470	1.0	20.00	0	97.4	65	123				
Naphthalene	21.200	1.0	20.00	0	106	54	138				

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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **CA200617-LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **145143**
Client ID: **LCSW** Batch ID: **CA20VW076** TestNo: **EPA 8260B** Analysis Date: **6/17/2020** SeqNo: **3820521**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	20.860	1.0	20.00	0	104	80	121				
Tert-amyl methyl ether	19.740	1.0	20.00	0	98.7	70	130				
Tert-Butanol	104.340	5.0	100.0	0	104	70	130				
Tetrachloroethene	20.750	1.0	20.00	0	104	66	128				
Toluene	19.550	2.0	20.00	0	97.8	77	122				
trans-1,2-Dichloroethene	18.780	1.0	20.00	0	93.9	63	137				
trans-1,3-Dichloropropene	20.410	1.0	20.00	0	102	59	135				
Trichloroethene	21.800	1.0	20.00	0	109	70	127				
Vinyl chloride	23.500	0.50	20.00	0	118	50	134				
Xylenes, Total	63.520	2.0	60.00	0	106	75	125				
Surr: 1,2-Dichloroethane-d4	25.360		25.00		101	72	119				
Surr: 4-Bromofluorobenzene	24.910		25.00		99.6	76	119				
Surr: Dibromofluoromethane	25.460		25.00		102	85	115				
Surr: Toluene-d8	24.890		25.00		99.6	81	120				

Sample ID: **CA200617-MB1** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **145143**
Client ID: **PBW** Batch ID: **CA20VW076** TestNo: **EPA 8260B** Analysis Date: **6/17/2020** SeqNo: **3820522**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	1.0									
1,2,4-Trichlorobenzene	0.170	1.0									J
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **CA200617-MB1** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **145143**
Client ID: **PBW** Batch ID: **CA20VW076** TestNo: **EPA 8260B** Analysis Date: **6/17/2020** SeqNo: **3820522**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butanone	ND	10									
Benzene	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Ethylbenzene	ND	1.0									
Hexachlorobutadiene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	2.0									
MTBE	ND	1.0									
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Vinyl chloride	ND	0.50									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	25.370		25.00		101	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **CA200617-MB1** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **145143**
Client ID: **PBW** Batch ID: **CA20VW076** TestNo: **EPA 8260B** Analysis Date: **6/17/2020** SeqNo: **3820522**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	23.910		25.00		95.6	76	119				
Surr: Dibromofluoromethane	24.400		25.00		97.6	85	115				
Surr: Toluene-d8	24.420		25.00		97.7	81	120				

Sample ID: **N040965-001A-MS** SampType: **MS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **145143**
Client ID: **ZZZZZZ** Batch ID: **CA20VW076** TestNo: **EPA 8260B** Analysis Date: **6/17/2020** SeqNo: **3820526**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	20.890	1.0	20.00	0	104	67	132				
1,1,2,2-Tetrachloroethane	21.490	1.0	20.00	0	107	63	128				
1,1,2-Trichloroethane	20.370	1.0	20.00	0	102	75	125				
1,1-Dichloroethane	21.070	0.50	20.00	0	105	69	133				
1,1-Dichloroethene	22.320	1.0	20.00	0	112	68	130				
1,2,4-Trichlorobenzene	22.400	1.0	20.00	0	112	66	134				
1,2-Dichlorobenzene	22.750	1.0	20.00	0	114	71	122				
1,2-Dichloroethane	20.980	0.50	20.00	0	105	69	132				
1,2-Dichloropropane	20.560	1.0	20.00	0	103	75	125				
1,3-Dichlorobenzene	22.030	1.0	20.00	0	110	75	124				
1,4-Dichlorobenzene	22.710	1.0	20.00	0	114	74	123				
2-Butanone	185.690	10	200.0	0	92.8	49	136				
Benzene	21.410	1.0	20.00	0	107	81	122				
Bromodichloromethane	19.610	1.0	20.00	0	98.0	76	121				
Bromoform	17.370	1.0	20.00	0	86.9	69	128				
Bromomethane	21.720	1.0	20.00	0	109	53	141				
Carbon tetrachloride	19.840	0.50	20.00	0	99.2	66	138				
Chlorobenzene	21.960	1.0	20.00	0	110	81	122				
Chloroethane	23.040	1.0	20.00	0	115	58	133				
Chloroform	23.070	1.0	20.00	0	115	69	128				
Chloromethane	24.070	1.0	20.00	0	120	56	131				
cis-1,3-Dichloropropene	21.190	1.0	20.00	0	106	69	131				

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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N040965-001A-MS** SampType: **MS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **145143**
Client ID: **ZZZZZZ** Batch ID: **CA20VW076** TestNo: **EPA 8260B** Analysis Date: **6/17/2020** SeqNo: **3820526**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-isopropyl ether	20.610	1.0	20.00	0	103	70	130				
Dibromochloromethane	19.430	1.0	20.00	0	97.2	66	133				
Ethylbenzene	21.570	1.0	20.00	0	108	73	127				
Hexachlorobutadiene	22.020	1.0	20.00	0	110	67	131				
m,p-Xylene	43.600	1.0	40.00	0	109	76	128				
Methylene chloride	22.770	2.0	20.00	0	114	63	137				
MTBE	21.770	1.0	20.00	0	109	65	123				
Naphthalene	21.670	1.0	20.00	0	108	54	138				
o-Xylene	21.570	1.0	20.00	0	108	80	121				
Tert-amyl methyl ether	20.380	1.0	20.00	0	102	70	130				
Tert-Butanol	107.960	5.0	100.0	0	108	70	130				
Tetrachloroethene	20.580	1.0	20.00	0	103	66	128				
Toluene	20.850	2.0	20.00	0	104	77	122				
trans-1,2-Dichloroethene	20.530	1.0	20.00	0	103	63	137				
trans-1,3-Dichloropropene	18.520	1.0	20.00	0	92.6	59	135				
Trichloroethene	21.970	1.0	20.00	0	110	70	127				
Vinyl chloride	23.790	0.50	20.00	0	119	50	134				
Xylenes, Total	65.170	2.0	60.00	0	109	75	125				
Surr: 1,2-Dichloroethane-d4	26.520		25.00		106	72	119				
Surr: 4-Bromofluorobenzene	24.460		25.00		97.8	76	119				
Surr: Dibromofluoromethane	26.020		25.00		104	85	115				
Surr: Toluene-d8	25.170		25.00		101	81	120				

Sample ID: **N040965-001A-MSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **145143**
Client ID: **ZZZZZZ** Batch ID: **CA20VW076** TestNo: **EPA 8260B** Analysis Date: **6/17/2020** SeqNo: **3820527**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	20.830	1.0	20.00	0	104	67	132	20.89	0.288	20	
1,1,2,2-Tetrachloroethane	21.070	1.0	20.00	0	105	63	128	21.49	1.97	20	
1,1,2-Trichloroethane	21.560	1.0	20.00	0	108	75	125	20.37	5.68	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N040965-001A-MSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **145143**
Client ID: **ZZZZZZ** Batch ID: **CA20VW076** TestNo: **EPA 8260B** Analysis Date: **6/17/2020** SeqNo: **3820527**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	21.820	0.50	20.00	0	109	69	133	21.07	3.50	20	
1,1-Dichloroethene	21.180	1.0	20.00	0	106	68	130	22.32	5.24	20	
1,2,4-Trichlorobenzene	21.170	1.0	20.00	0	106	66	134	22.40	5.65	20	
1,2-Dichlorobenzene	21.880	1.0	20.00	0	109	71	122	22.75	3.90	20	
1,2-Dichloroethane	20.310	0.50	20.00	0	102	69	132	20.98	3.25	20	
1,2-Dichloropropane	21.230	1.0	20.00	0	106	75	125	20.56	3.21	20	
1,3-Dichlorobenzene	20.470	1.0	20.00	0	102	75	124	22.03	7.34	20	
1,4-Dichlorobenzene	21.270	1.0	20.00	0	106	74	123	22.71	6.55	20	
2-Butanone	185.330	10	200.0	0	92.7	49	136	185.7	0.194	20	
Benzene	20.920	1.0	20.00	0	105	81	122	21.41	2.32	20	
Bromodichloromethane	19.990	1.0	20.00	0	100	76	121	19.61	1.92	20	
Bromoform	17.510	1.0	20.00	0	87.6	69	128	17.37	0.803	20	
Bromomethane	21.480	1.0	20.00	0	107	53	141	21.72	1.11	20	
Carbon tetrachloride	19.910	0.50	20.00	0	99.6	66	138	19.84	0.352	20	
Chlorobenzene	21.390	1.0	20.00	0	107	81	122	21.96	2.63	20	
Chloroethane	21.640	1.0	20.00	0	108	58	133	23.04	6.27	20	
Chloroform	22.130	1.0	20.00	0	111	69	128	23.07	4.16	20	
Chloromethane	22.470	1.0	20.00	0	112	56	131	24.07	6.88	20	
cis-1,3-Dichloropropene	19.980	1.0	20.00	0	99.9	69	131	21.19	5.88	20	
Di-isopropyl ether	19.750	1.0	20.00	0	98.8	70	130	20.61	4.26	20	
Dibromochloromethane	18.700	1.0	20.00	0	93.5	66	133	19.43	3.83	20	
Ethylbenzene	20.220	1.0	20.00	0	101	73	127	21.57	6.46	20	
Hexachlorobutadiene	20.500	1.0	20.00	0	103	67	131	22.02	7.15	20	
m,p-Xylene	41.290	1.0	40.00	0	103	76	128	43.60	5.44	20	
Methylene chloride	21.030	2.0	20.00	0	105	63	137	22.77	7.95	20	
MTBE	20.510	1.0	20.00	0	103	65	123	21.77	5.96	20	
Naphthalene	21.180	1.0	20.00	0	106	54	138	21.67	2.29	20	
o-Xylene	20.200	1.0	20.00	0	101	80	121	21.57	6.56	20	
Tert-amyl methyl ether	20.210	1.0	20.00	0	101	70	130	20.38	0.838	20	
Tert-Butanol	108.070	5.0	100.0	0	108	70	130	108.0	0.102	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N040965-001A-MSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **145143**
Client ID: **ZZZZZZ** Batch ID: **CA20VW076** TestNo: **EPA 8260B** Analysis Date: **6/17/2020** SeqNo: **3820527**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	18.420	1.0	20.00	0	92.1	66	128	20.58	11.1	20	
Toluene	19.980	2.0	20.00	0	99.9	77	122	20.85	4.26	20	
trans-1,2-Dichloroethene	20.050	1.0	20.00	0	100	63	137	20.53	2.37	20	
trans-1,3-Dichloropropene	18.910	1.0	20.00	0	94.6	59	135	18.52	2.08	20	
Trichloroethene	21.630	1.0	20.00	0	108	70	127	21.97	1.56	20	
Vinyl chloride	23.230	0.50	20.00	0	116	50	134	23.79	2.38	20	
Xylenes, Total	61.490	2.0	60.00	0	102	75	125	65.17	5.81	20	
Surr: 1,2-Dichloroethane-d4	25.470		25.00		102	72	119		0		
Surr: 4-Bromofluorobenzene	24.690		25.00		98.8	76	119		0		
Surr: Dibromofluoromethane	25.620		25.00		102	85	115		0		
Surr: Toluene-d8	24.670		25.00		98.7	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERU

Sample ID: **CA200617-LCS-2CE** SampType: **LCS** TestCode: **8260WATERU** Units: **µg/L** Prep Date: RunNo: **145143**
Client ID: **LCSW** Batch ID: **CA20VW076** TestNo: **EPA 8260B** Analysis Date: **6/17/2020** SeqNo: **3820574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloroethyl vinyl ether	20.350	1.0	20.00	0	102	28	120				
Surr: 1,2-Dichloroethane-d4	23.600		25.00		94.4	75	130				
Surr: 4-Bromofluorobenzene	25.380		25.00		102	80	120				
Surr: Dibromofluoromethane	25.320		25.00		101	80	128				
Surr: Toluene-d8	24.760		25.00		99.0	80	120				

Sample ID: **CA200617-MB1** SampType: **MBLK** TestCode: **8260WATERU** Units: **µg/L** Prep Date: RunNo: **145143**
Client ID: **PBW** Batch ID: **CA20VW076** TestNo: **EPA 8260B** Analysis Date: **6/17/2020** SeqNo: **3820575**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloroethyl vinyl ether	ND	1.0									
Surr: 1,2-Dichloroethane-d4	25.780		25.00		103	75	130				
Surr: 4-Bromofluorobenzene	24.430		25.00		97.7	80	120				
Surr: Dibromofluoromethane	25.120		25.00		100	80	128				
Surr: Toluene-d8	25.260		25.00		101	80	120				

Sample ID: **N040965-002I-MS-2C** SampType: **MS** TestCode: **8260WATERU** Units: **µg/L** Prep Date: RunNo: **145143**
Client ID: **ZZZZZZ** Batch ID: **CA20VW076** TestNo: **EPA 8260B** Analysis Date: **6/17/2020** SeqNo: **3820584**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloroethyl vinyl ether	22.390	1.0	20.00	0	112	5	175				
Surr: 1,2-Dichloroethane-d4	26.580		25.00		106	75	130				
Surr: 4-Bromofluorobenzene	26.240		25.00		105	80	120				
Surr: Dibromofluoromethane	26.240		25.00		105	80	128				
Surr: Toluene-d8	25.500		25.00		102	80	120				

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERU

Sample ID: **N040965-002I-MSD-2** SampType: **MSD** TestCode: **8260WATERU** Units: **µg/L** Prep Date: RunNo: **145143**
Client ID: **ZZZZZZ** Batch ID: **CA20VW076** TestNo: **EPA 8260B** Analysis Date: **6/17/2020** SeqNo: **3820585**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloroethyl vinyl ether	23.160	1.0	20.00	0	116	5	175	22.39	3.38	20	
Surr: 1,2-Dichloroethane-d4	25.690		25.00		103	75	130		0		
Surr: 4-Bromofluorobenzene	24.970		25.00		99.9	80	120		0		
Surr: Dibromofluoromethane	23.910		25.00		95.6	80	128		0		
Surr: Toluene-d8	24.970		25.00		99.9	80	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: N040965
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID: **LCS-79713** SampType: **LCS** TestCode: **8270WATER_** Units: **µg/L** Prep Date: **6/16/2020** RunNo: **145137**
Client ID: **LCSW** Batch ID: **79713** TestNo: **EPA 8270C** **EPA 3510C** Analysis Date: **6/17/2020** SeqNo: **3819902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.260	1.0	6.000	0	37.7	24	120				
Surr: Phenol-d5	0.370		1.000		37.0	25	108				

Sample ID: **LCSD-79713** SampType: **LCSD** TestCode: **8270WATER_** Units: **µg/L** Prep Date: **6/16/2020** RunNo: **145137**
Client ID: **LCSS02** Batch ID: **79713** TestNo: **EPA 8270C** **EPA 3510C** Analysis Date: **6/17/2020** SeqNo: **3819903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.250	1.0	6.000	0	37.5	24	120	2.260	0.443	20	
Surr: Phenol-d5	0.380		1.000		38.0	25	108		0		

Sample ID: **MB-79713** SampType: **MBLK** TestCode: **8270WATER_** Units: **µg/L** Prep Date: **6/16/2020** RunNo: **145137**
Client ID: **PBW** Batch ID: **79713** TestNo: **EPA 8270C** **EPA 3510C** Analysis Date: **6/17/2020** SeqNo: **3819904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	1.0									
Surr: Phenol-d5	0.430		1.000		43.0	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

N040965

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

CHAIN OF CUSTODY RECORD

DATE: 6-11-20
PAGE: 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Section D Sampler Information:	
Company: Kinder Morgan Energy Partners Attention: Ryan Koch		Report To: Eric Davis		Attention:	Ryan Koch - Ref. AFE# 81195	Sampler Name:	Nils Oriczky
Address: 1001 Louisiana St., Houston, TX 77002		Copy To: Ryan Koch		Company Name:	Kinder Morgan Energy Partners	Sampler Signature:	
Email To: Ryan_Koch@kindermorgan.com eric.davis@tacphs.com; nils.oriczky@tacphs.com		Purchase Order No.:		Address:	1001 Louisiana St., Houston, TX 77002	Sample Date:	6-11-20
Phone 713-420-6730	Fax 714-560-4801	Project Name:	SFPP Norwalk	ATL Project Manager:	Marion Cartin		

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G=GRAB C=COMP)	SAMPLING DATE	SAMPLING TIME	TOTAL # OF CONTAINERS	Analysis Test	MTBE, TBA, DIPE, TAME, MEK, + Priority Pollutant VOC (SW8260)	Acrolein, Acrylonitrile, 2-CLEVE (SW8260)	TPH-gas (C4-C12) (SW8015)	TPH-d (C13-C22), TPH-o4 (C23+), Total TPH (SW8015)	Priority Pollutant Metals (E200.8/ E245.1)	Priority Pollutant SVOC (SW8270)	BOD (@ 20 deg. C)(SM5210B)	Total Suspended Solids (SM25400); Turbidity (SM21300); Nitrate + Nitrite (as N)(300.0)	Oil & Grease (1664)	Ammonia Nitrogen (as N) (SM 4500 NH3C)	Settleable Solids (SM25400F)	Chromium VI (SW7199)	Cyanide (EPA 335.4)	MBAs (SM 5540C)	Sulfides (SM 4500 S2- D)	2,3,7,8-TCDD and TCDD Equivalents (SW8290)	Priority Pollutant Pesticides (SW8081)	Priority Pollutant PCBs (SW8082)	Asbestos (EPA 600/R-94/134)	Hardness (SM2340B)	Comments
	CONTAINER TYPE								V	V	V	A	P	A	P	P	G	P	P	P	P	P	P	A	A	A	P	P	
	# OF CONTAINERS								3	3	3	2	1	2	1	1	2	1	1	1	1	1	1	2	2	2	1	1	
	PRESERVATIVE								H	–	H	–	N	–	–	–	S	S	–	–	O	–	O/Z	–	–	–	–	N	
	VOLUME (mL)								40	40	40	1000	500	1000	1000	1000	1000	500	1000	250	250	500	250	1000	1000	1000	1000	500	
1	EFF-06-11-20	EFFLUENT	W	G	6-11-20	1315	32		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		N040965-01
2	RSW-001-06-11-20	50 Feet Upstream of Discharge in Coyote Creek	W	G	↓	1420	19		X	X			X	X						X	X			X	X	X	X	X	-02
3	RSW-002-06-11-20	50 Feet Downstream of Discharge in Coyote Creek	W	G	↓	1430	19		X	X			X	X						X	X			X	X	X	X	X	-03
4																													
5																													Report metals, TPH and VOC preliminary data on 24-hr TAT
6																													Report total Xylenes
7																													
8																													
9																													
10																													Please Provide Detailed Sample Receipt with a list of sample bottles and analysis associated with the sample bottles.

Relinquished by (Signature and Printed Name):	Date / Time	Relinquished by (Signature and Printed Name):	Date / Time
Nils Oriczky	6/11/20 1530		6/11/20 1750
		EMIL R	6/11/20 1803
EMIL R	6/11/20 1900	Yoander Rodriguez	6/12/20 8:05

Turn Around Time (TAT):
- A = Same Day
- B = 24 Hours
- C = 48 Hours
- D = 72 Hours
- E = 5 Workdays
- F = 10 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00 PM.

4.2°C IR#1

Special Instruction:
Las Vegas
3.8°C / 3.3°C
IR#2

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

GSO #s: 7170 / ~~7192~~ 7172
MAT 6/12/20

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:	6/11/2020	Workorder:	N040965
Rep sample Temp (Deg C):	4.2	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 ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☐	No ☑	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☑	No ☐	NA ☐
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☑	No ☐	NA ☐
15. Did the bottle labels indicate correct preservatives used?	Yes ☑	No ☐	NA ☐
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Sample for pH received past holding time.
Received at Las Vegas Lab on 6/12/20 (GSO #s 7171/7172) at 3.8 oC/3.3 oC, IR # 2.

Checklist Completed By: EAR 6/16/20

Reviewed By: YRJ 6/16/2020

ASSET Laboratories

WORK ORDER Summary

16-Jun-20

WorkOrder: N040965

Client ID: CH2HI03

Project: SFPP Norwalk **QC Level:** RTNE **Date Received:** 6/11/2020

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
N040965-001A	EFF-06-11-20	6/11/2020 1:15:00 PM	6/15/2020	Water	EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	V-CA
N040965-001B			6/15/2020		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	VW
N040965-001C			6/15/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	☐	☐	☐	WW
			6/15/2020		EPA 8015B	TPH EXTRACTABLE BY GC/FID	☐	☐	☐	WW
			6/15/2020		EPA 8015B	Total TPH	☐	☐	☐	WW
N040965-001D			6/15/2020			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			6/15/2020		EPA 200.8	TOTAL METALS BY COLLISION/REACTION CELL ICPMS	☐	☐	☐	WW
			6/15/2020		EPA 200.8	TOTAL METALS BY ICPMS	☐	☐	☐	WW
			6/15/2020		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	WW
			6/15/2020			MERCURY PREP	☐	☐	☐	WW
N040965-001E			6/18/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: PESTICIDE/PCB	☐	☐	☑	SUB
			6/18/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C	☐	☐	☑	SUB
			6/18/2020		EPA 608.3	ORGANOCHLORINE PESTICIDES AND PCBs BY GC/ECD	☐	☐	☑	SUB
			6/18/2020		EPA 625.1	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☑	SUB
N040965-001F			6/18/2020		SM 5210 B	BIOCHEMICAL OXYGEN DEMAND	☐	☐	☑	SUB
N040965-001G			6/18/2020		SM4500-H+B	pH	☐	☐	☐	WW
			6/18/2020		SM 2130B	TURBIDITY	☐	☐	☐	WW
			6/18/2020		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	WW
			6/18/2020		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

16-Jun-20

WorkOrder: N040965

Client ID: CH2HI03

Project: SFPP Norwalk **QC Level:** RTNE **Date Received:** 6/11/2020

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
N040965-001G	EFF-06-11-20	6/11/2020 1:15:00 PM	6/18/2020	Water	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	WW
N040965-001H			6/18/2020			Oil and Grease Sample Prep	☐	☐	☐	Consumed
			6/18/2020		EPA 1664 _HEM R	Hexane Extractable Material (HEM)	☐	☐	☐	Consumed
N040965-001I			6/18/2020		SM4500-NH3C	AMMONIA-N	☐	☐	☑	SUB
N040965-001J			6/18/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW-CA
			6/18/2020			Total Suspended Solids Prep	☐	☐	☐	WW-CA
			6/18/2020		SM2540F	SETTLEABLE MATTER	☐	☐	☐	WW-CA
			6/18/2020			Setteable Matter	☐	☐	☐	WW-CA
N040965-001K			6/18/2020		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WW-CA
N040965-001L			6/18/2020		SM4500-CN E	CYANIDE, TOTAL	☐	☐	☑	SUB
N040965-001M			6/18/2020		SM 5540 C	SURFACTANTS	☐	☐	☑	SUB
N040965-001N			6/18/2020		SM4500-S-2D	SULFIDE, TOTAL	☐	☐	☑	SUB
N040965-001O			6/18/2020		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB
N040965-001P			6/18/2020		TEM	Asbestos TEM	☐	☐	☑	SUB
N040965-001Q			6/15/2020		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☑	SUB
N040965-001R			6/18/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	☐	☐	☐	WW
			6/18/2020		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WW
N040965-001S			6/15/2020		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	V-CA
N040965-002A	RSW-001-06-11-20	6/11/2020 2:20:00 PM	6/15/2020		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	V-CA
N040965-002B			6/15/2020			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

16-Jun-20

WorkOrder: N040965

Client ID: CH2HI03

Project: SFPP Norwalk **QC Level:** RTNE **Date Received:** 6/11/2020

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
N040965-002B	RSW-001-06-11-20	6/11/2020 2:20:00 PM	6/15/2020	Water	EPA 200.7	TOTAL METALS BY ICP	☐	☐	☐	WW
			6/15/2020			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			6/15/2020		EPA 200.8	TOTAL METALS BY COLLISION/REACTION CELL ICPMS	☐	☐	☐	WW
			6/15/2020		EPA 200.8	TOTAL METALS BY ICPMS	☐	☐	☐	WW
			6/15/2020		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	WW
			6/15/2020			MERCURY PREP	☐	☐	☐	WW
			6/18/2020		SM 2340 B	Hardness by Calculation	☐	☐	☐	WW
N040965-002C			6/18/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: PESTICIDE/PCB	☐	☐	☑	SUB
			6/18/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C	☐	☐	☑	SUB
			6/18/2020		EPA 608.3	ORGANOCHLORINE PESTICIDES AND PCBs BY GC/ECD	☐	☐	☑	SUB
			6/18/2020		EPA 625.1	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☑	SUB
N040965-002D			6/18/2020		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WW-CA
N040965-002E			6/18/2020		SM4500-CN E	CYANIDE, TOTAL	☐	☐	☑	SUB
N040965-002F			6/18/2020		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB
N040965-002G			6/18/2020		TEM	Asbestos TEM	☐	☐	☑	SUB
N040965-002H			6/15/2020		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☑	SUB
N040965-002I			6/15/2020		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	V-CA
N040965-003A	RSW-002-06-11-20	6/11/2020 2:30:00 PM	6/15/2020		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	V-CA
N040965-003B			6/15/2020			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

16-Jun-20

WorkOrder: N040965

Client ID: CH2HI03

Project: SFPP Norwalk **QC Level:** RTNE **Date Received:** 6/11/2020

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
N040965-003B	RSW-002-06-11-20	6/11/2020 2:30:00 PM	6/15/2020	Water	EPA 200.7	TOTAL METALS BY ICP	☐	☐	☐	WW
			6/15/2020			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			6/15/2020		EPA 200.8	TOTAL METALS BY COLLISION/REACTION CELL ICPMS	☐	☐	☐	WW
			6/15/2020		EPA 200.8	TOTAL METALS BY ICPMS	☐	☐	☐	WW
			6/15/2020		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	WW
			6/15/2020			MERCURY PREP	☐	☐	☐	WW
			6/18/2020		SM 2340 B	Hardness by Calculation	☐	☐	☐	WW
N040965-003C			6/18/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: PESTICIDE/PCB	☐	☐	☑	SUB
			6/18/2020		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C	☐	☐	☑	SUB
			6/18/2020		EPA 608.3	ORGANOCHLORINE PESTICIDES AND PCBs BY GC/ECD	☐	☐	☑	SUB
			6/18/2020		EPA 625.1	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☑	SUB
N040965-003D			6/18/2020		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WW-CA
N040965-003E			6/18/2020		SM4500-CN E	CYANIDE, TOTAL	☐	☐	☑	SUB
N040965-003F			6/18/2020		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB
N040965-003G			6/18/2020		TEM	Asbestos TEM	☐	☐	☑	SUB
N040965-003H			6/15/2020		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☑	SUB
N040965-003I			6/15/2020		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	V-CA
N040965-004A	FOLDER	6/15/2020	6/15/2020		Folder	Folder	☐	☐	☐	LAB
			6/15/2020		Folder	Folder	☐	☐	☐	LAB

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL

SUBCOC to BC LABS

CHAIN OF CUSTODY RECORD

Page 1 of

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

Client: ASSET Laboratories	**Report to:** Emil Angelo Rodriguez	**Bill to:** Elvira Allegaert/Accounts Payable
Address: 11110 Artesia Blvd Ste B	**Company:** ASSET Laboratories	**Address:** 11110 Artesia Blvd Ste B
Address: Cerritos, CA 90703	**Email:** emiliangelo@assetlaboratories.com	Cerritos, CA 90703
Phone: 562.219.7435 **Fax:** 562.219.7436	**Address:** 11110 Artesia Blvd Ste B	**Email to:** elvira@assetlaboratories.com **PO#** N40965A
Submitted By: Emil Angelo Rodriguez	Cerritos, CA 90703	**Phone:** 562.219.7435 **Fax:** 562.218.7436
Title: Project Manager	**Phone:** 562.881.0611 **Fax:** 562.219.7436	
Signature: **Date:**	**Sampled by:** SIGNED	
I hereby authorize ASSET Labs to perform the tests indicated below:	*I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*	
Project Name: SFPP Norwalk		
Project Number:	**Signature:** **Date:**	

EDD Requirement

Excel EDD	☑
Geotracker	☐
Labspec	☐
Others	☐
Specify:	
Global ID:	

QA/QC

RTNE	☐
RWQCB	☐
CalTrans	☐
Level III	☐
LEVEL IV	☐
Regulatory	☐

Specify State:

Sample Receipt Condition

	Y	N
1. Chilled	☐	☐
2. Headspace	☐	☐
3. Container Intact	☐	☐
4. Seal Present	☐	☐
5. IR number		
6. Method of Cooling		

Sample Temp:

Matrix

Waste	☑	Sediment	☐
Potable	☐	Soil	☐
NPDES	☐	Other Solid	☐
Surface	☐		

Analyses Requested

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	Ammonia N (SM-4500 NH3C)	Cyanide (EPA 335.4)	Sulfides (SM 4500 S2-D)	EPA ~~608~~ 608.1	EPA ~~8082~~ 608	EPA 8270 CTR - NPDES Level 625 CTR	YRJ 6/16/2020	Turn Around Time (TAT)	No. of Containers	Container Type	Preservation
1		EFF-06-11-20	6/11/2020	1315	X			X	X		X	X	X	X	E			
2		RSW-001-06-11-20	6/11/2020	1420	X				X			X	X	X	E			
3		RSW-002-06-11-20	6/11/2020	1430	X				X			X	X	X	E			
4																		
5	Please note:	608 OCPs and 608 PCBs																
6		625CTR																
7	YRJ																	
8	6/16/2020																	
9																		
10																		

Courier:

Tracking No.

Remarks

EDD Requirement CH2MHILL Labspec7 edata. Please report "J" flagged down to MDL format.

Please analyze for Priority Pollutants SVOCs, Pesticides, and PCBs

Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time
EMIL A 6/13/20	1800		
Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time
Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time

Turn Around Time (TAT):

- A = <24Hrs or Same Day
- B = Next Workday
- C = 2 Workdays
- D = 3 Workdays
- ☑ E = Routine 5-7 Workdays

TAT starts at 8 AM the following day if samples are received after 3:00 PM

Special Instructions:

include reports@assetlaboratories.com, tmallit@assetlaboratories.com, sonny.lorenzo@assetlaboratories.com, ludlle.golosinda@assetlaboratories.com when reporting.

Results needed 6/23/20

Terms

1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
   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
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.

Preservatives:

H: HCl	N: HNO_3	S: H_2SO_4	C: <= 6°C
Z: $Zn(AC)_2$	O: NaOH	T: $Na_2S_2O_3$	
Others/Specify:			

Container Type:

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

White = Laboratory Copy

Yellow = Customer's Copy

GSO# 549367518

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL

SUBCOC to LA TESTING

CHAIN OF CUSTODY RECORD

Page 1 of 1

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

Client:	ASSET Laboratories
Address:	11110 Artesia Blvd Ste B
Address:	Cerritos, CA 90703
Phone:	562.219.7435
Fax:	562.219.7436
Submitted By:	Emil Angelo Rodriguez
Title:	Project Manager
Signature:	Date:
I hereby authorize ASSET Labs to perform the tests indicated below:	
Project Name:	SFPP Norwalk
Project Number:	

Report to:	Emil Angelo Rodriguez
Company:	ASSET Laboratories
Email:	emilangelo@assetlaboratories.com
Address:	11110 Artesia Blvd Ste B
	Cerritos, CA 90703
Phone:	562.881.0611
Fax:	562.219.7436
Sampled by:	SIGNED

I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Signature: Date:

Bill to:	Elvira Allegaert/Accounts Payable
Address:	11110 Artesia Blvd Ste B
	Cerritos, CA 90703
Email to:	elvira@assetlaboratories.com
PO#	N40965B
Phone:	562.219.7435
Fax:	562.218.7436

EDD Requirement		QA/QC		Sample Receipt Condition	Y	N
Excel EDD	☑	RTNE	☐			
Geotracker	☐	RWQCB	☐	1. Chilled	☐	☐
Labspec	☐	CalTrans	☐	2. Headspace	☐	☐
Others	☐	Level III	☐	3. Container Intact	☐	☐
Specify:		LEVEL IV	☐	4. Seal Present	☐	☐
Global ID:		Regulatory	☐	5. IR number		
		Specify State:		6. Method of Cooling		
				Sample Temp:		

Matrix			
Waste	☑	Sediment	☐
Potable	☐	Soil	☐
NPDES	☐	Other Solid	☐
Surface	☐		

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	Asbestos TEM (EPA 600/R-94/134)	Turn Around Time (TAT)	No. of Containers	Container Type	Preservation
1		EFF-06-11-20	6/11/2020	1315	X			X	E			
2		RSW-001-06-11-20	6/11/2020	1420	X			X	E			
3		RSW-002-06-11-20	6/11/2020	1430	X			X	E			
4												
5												
6												
7												
8												
9												
10												

Courier:

Tracking No.

Remarks

Temp 2.2C

EDD Requirement CH2MHILL Labspec7 edata. Please report "J" flagged down to MDL format.

Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time
EMIL R	6/12/20 1100		6/12/20 1100
Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time
	6/12/20 1231	Rafael Palacios	6/12/20 1230
Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time

Turn Around Time (TAT)

- ☐ A = <24Hrs or Same Day
- ☐ B = Next Workday
- ☐ C = 2 Workdays
- ☐ D = 3 Workdays
- ☑ E = Routine 5-7 Workdays

TAT starts at 8 AM the following day if samples are received after 3:00 PM

Special Instructions:

include reports@assetlaboratories.com, tmallt@assetlaboratories.com, sonny.lorenzo@assetlaboratories.com, lucille.golosinda@assetlaboratories.com when reporting

Results needed 6/19/20

Terms

1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
   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
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 Laboratrories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:			
H: HCl	N: HNO_3	S: H_2SO_4	C: <= 6°C
Z: $Zn(AC)_2$	O: NaOH	T: $Na_2S_2O_3$	
Others/Specify:			

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

White = Laboratory Copy

Yellow = Customer's Copy

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL

SUBCOC to PACE

5/30

CHAIN OF CUSTODY RECORD

Page 1 of

Contact us:
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California: 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436
www.assetlaboratories.com

Client: ASSET Laboratories	**Report to:** Emil Angelo Rodriguez	**Bill to:** Elvira Allegaert/Accounts Payable	**EDD Requirement**
Address: 11110 Artesia Blvd Ste B	**Company:** ASSET Laboratories	**Address:** 11110 Artesia Blvd Ste B	Excel EDD ☑
Address: Cerritos, CA 90703	**Email:** emilangelo@assetlaboratories.com	Cerritos, CA 90703	Geotracker ☐
Phone: 562.219.7435 **Fax:** 562.219.7436	**Address:** 11110 Artesia Blvd Ste B	**Email to:** elvira@assetlaboratories.com **PO#** N40965C	Labspec ☐
Submitted By: Emil Angelo Rodriguez	Cerritos, CA 90703	**Phone:** 562.219.7435 **Fax:** 562.218.7436	Others ☐
Title: Project Manager	**Phone:** 562.881.0611 **Fax:** 562.219.7436		Specify:
Signature: **Date:**	**Sampled by:** SIGNED		Global ID:

QA/QC		Sample Receipt Condition	Y	N
RTNE	☐			
RWQCB	☐	1. Chilled	☐	☐
CalTrans	☐	2. Headspace	☐	☐
Level III	☐	3. Container Intact	☐	☐
LEVEL IV	☐	4. Seal Present	☐	☐
Regulatory	☐	5. IR number		
Specify State:		6. Method of Cooling		
		Sample Temp:		

I hereby authorize ASSET Labs to perform the tests indicated below:

I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Project Name: SFPP Norwalk

Project Number:

Signature: ***Date:***

Matrix

Waste	☑	Sediment	☐
Potable	☐	Soil	☐
NPDES	☐	Other Solid	☐
Surface	☐		

Analyses Requested

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	2, 3, 7, 8-TCDD and TCDD Equivalents (SW8290)	Turn Around Time (TAT)	No. of Containers	Container Type	Preservation
1		EFF-06-11-20	6/11/2020	1315	X			X	E			
2		RSW-001-06-11-20	6/11/2020	1420	X			X	E			
3		RSW-002-06-11-20	6/11/2020	1430	X			X	E			
4												
5												
6												
7												
8												
9												
10												

Courier:

Tracking No.

Remarks

EDD Requirement CH2MHILL Labspec7 edata. Please report "J" flagged down to MDL format.

Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time
6/15/20	1800		
Relinquished by (Signature and Printed Name):	**Date / Time**	**Received by (Signature and Printed Name):**	**Date / Time**
Relinquished by (Signature and Printed Name):	**Date / Time**	**Received by (Signature and Printed Name):**	**Date / Time**

Turn Around Time (TAT)

- ☐ A = <24Hrs or Same Day
- ☐ B = Next Workday
- ☐ C = 2 Workdays
- ☐ D = 3 Workdays
- ☑ E = Routine 5-7 Workdays

TAT starts at 8 AM the following day if samples are received after 3:00 PM

Special Instructions:
include reports@assetlaboratories.com, tmalit@assetlaboratories.com, sonny.lorenzo@assetlaboratories.com, lucille.golosinda@assetlaboratories.com when reporting

Terms

1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
   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
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.

Preservatives:			
H: HCl	N: HNO_3	S: H_2SO_4	C: <= 6°C
Z: $Zn(AC)_2$	O: NaOH	T: $Na_2S_2O_3$	
Others/Specify:			

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

White = Laboratory Copy

Yellow = Customer's Copy

ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL

SUBCOC to AETL

CHAIN OF CUSTODY RECORD

Page 1 of

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P: 562.219.7435 F: 562.219.7436
www.assetlaboratories.com

Client: ASSET Laboratories	**Report to:** Emil Angelo Rodriguez	**Bill to:** Elvira Allegaert/Accounts Payable	**EDD Requirement**
Address: 11110 Artesia Blvd Ste B	**Company:** ASSET Laboratories	**Address:** 11110 Artesia Blvd Ste B	Excel EDD ☑
Address: Cerritos, CA 90703	**Email:** emilangelo@assetlaboratories.com	Cerritos, CA 90703	Geotracker ☐
Phone: 562.219.7435 **Fax:** 562.219.7436	**Address:** 11110 Artesia Blvd Ste B	**Email to:** elvira@assetlaboratories.com **PO#** N40965D	Labspec ☐
Submitted By: Emil Angelo Rodriguez	Cerritos, CA 90703	**Phone:** 562.219.7435 **Fax:** 562.218.7436	Others ☐
Title: Project Manager	**Phone:** 562.881.0611 **Fax:** 562.219.7436		Specify:
Signature: **Date:**	**Sampled by:** SIGNED		Global ID:

I hereby authorize ASSET Labs to perform the tests indicated below:

Project Name: SFPP Norwalk

Project Number:

I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Signature: **Date:**

Matrix: Waste ☑ | Sediment ☐ | Potable ☐ | Soil ☐ | NPDES ☐ | Other Solid ☐ | Surface ☐

Analyses Requested: BOD (@ 20 deg. C) (SM5210B); MBAS (SM 5540C)

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	BOD	MBAS	Turn Around Time (TAT)	No. of Containers	Container Type	Preservation
1		EFF-06-11-20	6/11/2020	1315	X			X	X	E			
2													
3													
4													
5													
6													
7													
8													
9													
10													

QA/QC: RTNE ☐ | RWQCB ☐ | CalTrans ☐ | Level III ☐ | LEVEL IV ☐ | Regulatory ☐

Specify State:

Sample Receipt Condition

	Y	N
1. Chilled	☐	☐
2. Headspace	☐	☐
3. Container Intact	☐	☐
4. Seal Present	☐	☐
5. IR number		
6. Method of Cooling		

Sample Temp:

Courier:

Tracking No.

Remarks

EDD Requirement CH2MHILL Labspec7 edata. Please report "J" flagged down to MDL format.

Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time
[signature]	06/12/20 1500	[signature]	6/12/20 1500
Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time
Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time

Turn Around Time (TAT)

- ☐ E = <24Hrs or Same Day
- ☐ 1 = Next Workday
- ☐ 2 = 2 Workdays
- ☐ 3 = 3 Workdays
- ☐ R = Routine 5-7 Workdays

TAT starts at 8 AM the following day if samples are received after 2:00 PM

Special Instructions:
Include reports@assetlaboratories.com, emails@assetlaboratories.com and sonny.lorenzo@assetlaboratories.com when reporting.

Terms

1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
   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
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.

Preservatives:

H: HCl	N: HNO_3	S: H_2SO_4	C: <= 6°C
Z: $Zn(AC)_2$	O: NaOH	T: $Na_2S_2O_3$	

Others/Specify:

Container Type:

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

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Yellow = Customer's Copy

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Page 1 of 1

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California: 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436
www.assetlaboratories.com

Client: ASSET Laboratories	Report to: Emil Angelo Rodriguez	Bill to: Elvira Allegaert/Accounts Payable	EDD Requirement: Excel EDD ☐ Geotracker ☐ Labspec ☐ Others ☐ Specify:
Address: 11110 Artesia Blvd Ste B	Company: ASSET Laboratories	Address: 11110 Artesia Blvd Ste B	
Address: Cerritos, CA 90703	Email: emilangelo@assetlaboratories.com	Cerritos, CA 90703	
Phone: 562.219.7435 Fax: 562.219.7436	Address: 11110 Artesia Blvd Ste B	Email to: elvira@assetlaboratories.com PO# N40965E	
Submitted By: Emil Angelo Rodriguez	Cerritos, CA 90703	Phone: 562.219.7435 Fax: 562.218.7436	Global ID:
Title: Project Manager	Phone: 562.881.0611 Fax: 562.219.7436		
Signature: Date:	Sampled by: SIGNED		

I hereby authorize ASSET Labs to perform the tests indicated below:

Project Name: SFPP Norwalk

Project Number:

I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Signature: *Date:*

Matrix: Ground ☑ | Sediment ☐ | Potable ☐ | Soil ☐ | NPDES ☐ | Other Solid ☐ | Surface ☐

QA/QC: RTNE ☐ | RWQCB ☐ | CalTrans ☐ | Level III ☐ | LEVEL IV ☐ | Regulatory ☐ | Specify State:

Sample Receipt Condition:

	Y	N
1. Chilled	☐	☐
2. Headspace	☐	☐
3. Container Intact	☐	☐
4. Seal Present	☐	☐
5. IR number		
6. Method of Cooling		

Sample Temp:

Courier:

Tracking No.

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	Acrolein, Acrylonitrile (SW8260)	Turn Around Time (TAT)	No. of Containers	Container Type	Preservation	Remarks
1		EFF-06-11-20	6/11/2020	1315	X			X	E				EDD Requirement CH2MHILL Labspec7 edata. Please report "J" flagged down to MDL format.
2		RSW-001-06-11-20	6/11/2020	1420	X			X	E				
3		RSW-002-06-11-20	6/11/2020	1430	X			X	E				
4									E				
5									E				Limited Sample: 1 VOA unpreserved each
6									E				
7									E				Acrolein (RL-5)
8									E				Acrylonitrile (RL-2)
9									E				
10									E				
11									E				

Relinquished by (Signature and Printed Name)	Date / Time	Received by (Signature and Printed Name)	Date / Time
EMIL R	6/12/20 1800		6/12/20 1800
		Received by (Signature and Printed Name)	Date / Time
Relinquished by (Signature and Printed Name)	Date / Time	Received by (Signature and Printed Name)	Date / Time
		EC-iRv	6/12/20 1828

Turn Around Time (TAT)
- ☐ A = <24Hrs or Same Day
- ☑ B = Next Workday
- ☐ C = 2 Workdays
- ☐ D = 3 Workdays
- ☐ E = Routine 5-7 Workdays

TAT starts at 8 AM the following day if samples are received after 3:00 PM

Special Instructions:
include reports@assetlaboratories.com, tmalit@assetlaboratories.com, sonny.lorenzo@assetlaboratories.com, lucille.golosinda@assetlaboratories.com when reporting

Results Needed 6/15/20

Terms
1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs = 200% Next Day = 100% 2 Workdays = 50% 3 Workdays = 35% 4 Workdays = 20%
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4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project
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. 5.1/5.1 1289

Preservatives:

H: HCl	N: HNO_3	S: H_2SO_4	C: <= 6°C	
Z: $Zn(AC)_2$	O: NaOH	T: $Na_2S_2O_3$		
Others/Specify:				

Container Type:

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

GLS

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

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

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

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

Delivery Instructions:
HOLD FOR PICK UP
Signature Type: STANDARD

Tracking #: 549337171

PDS

LAS VEGAS

C89102A

21823854

LVS NV891-A 0

Print Date: 6/11/2020 7:35 PM

Package 1 of 3

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

3.8°C
mk2

GLS

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

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

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

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

Delivery Instructions:
HOLD FOR PICK UP
Signature Type: STANDARD

Tracking #: 549337172

PDS

LAS VEGAS

C89102A

21823855

LVS NV891-A 0

Print Date: 6/11/2020 7:35 PM

Package 2 of 3

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.

3.3°C
Pkt 2

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

ASSET Laboratories
11110 Artesia Blvd ste B
Cerritos, CA 90703

Number of Pages	**5**
Date Received	**06/12/2020**
Date Reported	**06/24/2020**

Telephone: (562)881-0611
Attention: Emil Rodriguez

Job Number	Order Date	Client
105069	06/12/2020	ASSET

Enclosed please find results of analyses of 1 water sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL

SUBCOC to AETL

CHAIN OF CUSTODY RECORD

105069

Page 1 of

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www.assetlaboratories.com

Client: ASSET Laboratories	**Report to:** Emil Angelo Rodriguez	**Bill to:** Elvira Allegaert/Accounts Payable	**EDD Requirement**
Address: 11110 Artesia Blvd Ste B	**Company:** ASSET Laboratories	**Address:** 11110 Artesia Blvd Ste B	Excel EDD ☑
Address: Cerritos, CA 90703	**Email:** emilangelo@assetlaboratories.com	Cerritos, CA 90703	Geotracker ☐
Phone: 562.219.7435 **Fax:** 562.219.7436	**Address:** 11110 Artesia Blvd Ste B	**Email to:** elvira@assetlaboratories.com **PO#** N40965D	Labspec ☐
Submitted By: Emil Angelo Rodriguez	Cerritos, CA 90703	**Phone:** 562.219.7435 **Fax:** 562.218.7436	Others ☐
Title: Project Manager	**Phone:** 562.881.0611 **Fax:** 562.219.7436		Specify:
Signature: **Date:**	**Sampled by:** SIGNED		Global ID:
I hereby authorize ASSET Labs to perform the tests indicated below:			
Project Name: SFPP Norwalk	*I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*		
Project Number:	***Signature:*** ***Date:***		

QA/QC		Sample Receipt Condition	Y	N
RTNE	☐			
RWQCB	☐	1. Chilled	☐	☐
CalTrans	☐	2. Headspace	☐	☐
Level III	☐	3. Container Intact	☐	☐
LEVEL IV	☐	4. Seal Present	☐	☐
Regulatory	☐	5. IR number		
Specify State:		6. Method of Cooling		
		Sample Temp:		

Matrix

Waste	☑	Sediment	☐
Potable	☐	Soil	☐
NPDES	☐	Other Solid	☐
Surface	☐		

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	BOD (@ 20 deg. C) (SM5210B)	MBAS (SM 5540C)	Turn Around Time (TAT)	No. of Containers	Container Type	Preservation
1	105069.01	EFF-06-11-20	6/11/2020	1315	X			X	X	E			
2													
3													
4													
5													
6													
7													
8													
9													
10													

Courier:

Tracking No.

Remarks

EDD Requirement CH2MHILL Labspec7 edata. Please report "J" flagged down to MDL format.

Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time
[signature]	06/12/20 1500	[signature]	06/12/20 1500
Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time
Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time

Turn Around Time (TAT)

- ☐ A = <24Hrs or Same Day
- ☐ B = Next Workday
- ☐ C = 2 Workdays
- ☐ D = 3 Workdays
- ☐ E = Routine 5-7 Workdays

TAT starts at 8 AM the following day if samples are received after 3:00 PM

Special Instructions:
include reports@assetlaboratories.com, tmalit@assetlaboratories.com and sonny.lorenzo@assetlaboratories.com when reporting

Terms

1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
   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
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 Laboratrories if hard copy of report is needed.
9. For subcontract analysis. TAT and Surcharges will vary.

Preservatives:			
H: HCl	N: HNO_3	S: H_2SO_4	C: <= 6°C
Z: $Zn(AC)_2$	O: NaOH	T: $Na_2S_2O_3$	
Others/Specify:			

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

White = Laboratory Copy

Yellow = Customer's Copy

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2834 N. NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP# 1541 & 2402 LACSD# 10181
TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com
A KYZER LABS COMPANY

COOLER RECEIPT FORM

Client Name: ASSET LAB
Project Name:
AETL Job Number: 195069
Date Received: 6/12/2020 Received by: Sangis-P
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☑ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.3°C, No 2: , No 3:
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☒ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☑ Ice , ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH
☐ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	N/A		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	✓		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

Explain all "No" answers for above questions:

_____

_____

_____

_____

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

ASSET Laboratories
11110 Artesia Blvd ste B
Cerritos, CA 90703

Telephone: (562)881-0611
Attention: Emil Rodriguez

Project ID: None
Date Received 06/12/2020
Date Reported 06/24/2020

Job Number	Order Date	Client
105069	06/12/2020	ASSET

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 1 samples with the following specification on 06/12/2020.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
105069.01	EFF-06-11-20	06/11/2020	Aqueous	3

Method ^ Submethod	Req Date	Priority	TAT	Units
SM-5540C	06/19/2020	2	Normal	mg/L
SM5210B	06/19/2020	2	Normal	mg/L

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

American Environmental Testing Laboratory Inc.
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ANALYTICAL RESULTS

Ordered By

ASSET Laboratories
11110 Artesia Blvd ste B
Cerritos, CA 90703

Telephone: (562)881-0611
Attn: Emil Rodriguez
Page: **2**

AETL Job Number	Submitted	Client
105069	06/12/2020	ASSET

Method: SM-5540C, Methylene Blue Active Substances (MBAS)

QC Batch No: MB061220-1

Our Lab I.D.			Method Blank	**105069.01**			
Client Sample I.D.				EFF-06-11-20			
Date Sampled				**06/11/2020**			
Date Prepared			**06/12/2020**	**06/12/2020**			
Preparation Method			**SM5540C**	**SM5540C**			
Date Analyzed			**06/12/2020**	**06/12/2020**			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Surfactants (MBAS)	**0.05**	**0.05**	**ND**	**ND**			

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ANALYTICAL RESULTS

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ASSET Laboratories
11110 Artesia Blvd ste B
Cerritos, CA 90703

Telephone: (562)881-0611
Attn: Emil Rodriguez
Page: **3**

AETL Job Number	Submitted	Client
105069	06/12/2020	ASSET

Method: SM5210B, Biochemical Oxygen Demand 5 days, @ 20C (Standard Methods)

QC Batch No: BO061220-1

Our Lab I.D.			Method Blank	**105069.01**			
Client Sample I.D.				EFF-06-11-20			
Date Sampled				**06/11/2020**			
Date Prepared			**06/12/2020**	**06/12/2020**			
Preparation Method			**SM5210B**	**SM5210B**			
Date Analyzed			**06/17/2020**	**06/17/2020**			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Biochemical Oxygen Demand (BOD)	**5.0**	**5.0**	**ND**	**ND**			

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QUALITY CONTROL RESULTS

Ordered By

ASSET Laboratories
11110 Artesia Blvd ste B
Cerritos, CA 90703

Telephone: (562)881-0611
Attn: Emil Rodriguez
Page: **4**

AETL Job Number	Submitted	Client
105069	06/12/2020	ASSET

Method: SM-5540C, Methylene Blue Active Substances (MBAS)

QC Batch No: MB061220-1; Dup or Spiked Sample: 105069.01; LCS: Clean Water; QC Prepared: 06/12/2020; QC Analyzed: 06/12/2020; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Surfactants (MBAS)	**0.00**	**0.500**	**0.472**	**94.4**	**0.500**	**0.459**	**91.8**	**2.8**	**80-120**	**<15**

QC Batch No: MB061220-1; Dup or Spiked Sample: 105069.01; LCS: Clean Water; QC Prepared: 06/12/2020; QC Analyzed: 06/12/2020; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Surfactants (MBAS)	**0.500**	**0.456**	**91.2**	**0.500**	**0.448**	**89.6**	**1.8**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

ASSET Laboratories
11110 Artesia Blvd ste B
Cerritos, CA 90703

Telephone: (562)881-0611
Attn: Emil Rodriguez
Page: **5**

AETL Job Number	Submitted	Client
105069	06/12/2020	ASSET

Method: SM5210B, Biochemical Oxygen Demand 5 days, @ 20C (Standard Methods)

QC Batch No: BO061220-1; Dup or Spiked Sample: 105069.01; LCS: Clean Water; LCS Prepared: 06/12/2020; LCS Analyzed: 06/17/2020; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Biochemical Oxygen Demand (BOD)	**ND**	**ND**	**<1**	**<15**						

QC Batch No: BO061220-1; Dup or Spiked Sample: 105069.01; LCS: Clean Water; LCS Prepared: 06/12/2020; LCS Analyzed: 06/17/2020; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Biochemical Oxygen Demand (BOD)	**198**	**165**	**83.3**	**198**	**182**	**91.9**	**9.8**	**80-120**	**<15**	

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181
TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

Date of Report: 06/23/2020

Emil Angelo Rodriguez

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

Client Project:	N040965: SFPP Norwalk
BCL Project:	Cerritos
BCL Work Order:	2017340
Invoice ID:	B383763

Enclosed are the results of analyses for samples received by the laboratory on 6/16/2020. 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

Table of Contents

SUBCOC to BC LABS

REVISED 06/16/20 VMB

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

20-17340

Page 1 of

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

Client: ASSET Laboratories	Report to: Emil Angelo Rodriguez	Bill to: Elvira Allegaert/Accounts Payable
Address: 11110 Artesia Blvd Ste B	Company: ASSET Laboratories	Address: 11110 Artesia Blvd Ste B
Address: Cerritos, CA 90703	Email: emilangelo@assetlaboratories.com	Cerritos, CA 90703
Phone: 562.219.7435 Fax: 562.219.7436	Address: 11110 Artesia Blvd Ste B	Email to: elvira@assetlaboratories.com PO#: N43065A
Submitted By: Emil Angelo Rodriguez	Cerritos, CA 90703	Phone: 562.219.7435 Fax: 562.218.7436
Title: Project Manager	Phone: 562.881.0611 Fax: 562.219.7436	
Signature: Date:	Sampled by: SIGNED	
Project Name: SFPP Norwalk	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action	
Project Number:	Signature: Date:	

I hereby authorize ASSET Labs to perform the tests indicated below:

Matrix: Waste ☑ Sediment ☐ Potable ☐ Soil ☐ NPDES ☐ Other Solid ☐ Surface ☐

EDD Requirement: Excel EDD ☑, Geotracker ☐, Labspec ☐, Others ☐, Specify:, Global ID:

QA/QC: RTNE ☐, RWQCB ☐, CalTrans ☐, Level III ☐, LEVEL IV ☐, Regulatory ☐, Specify State:

Sample Receipt Condition (Y / N): 1. Chilled ☐☐, 2. Headspace ☐☐, 3. Container Intact ☐☐, 4. Seal Present ☐☐, 5. IR number, 6. Method of Cooling, Sample Temp:

Courier: Tracking No.:

Analyses Requested: Ammonia N (SM-4500 NH3C); Cyanide (EPA 335.4); Sulfides (SM 4500 S2-D); EPA 608+ (608); EPA 8082; EPA 8270 CTR - NPDES Level (625 CTR); YLJ 6/16/2020

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	Ammonia N (SM-4500 NH3C)	Cyanide (EPA 335.4)		Sulfides (SM 4500 S2-D)	EPA 608+	EPA 8082	EPA 8270 CTR - NPDES Level	Turn Around Time (TAT)	No. of Containers	Container Type	Preservation	Remarks
1		EFF-06-11-20	6/11/2020	1315	X			X	X		X	X	X	X	E				EDD Requirement CH2MHILL Labspec7 edata. Please report "J" flagged down to MDL format.
2		RSW-001-06-11-20	6/11/2020	1420	X				X			X	X	X	E				
3		RSW-002-06-11-20	6/11/2020	1430	X				X			X	X	X	E				
4																			
5	Please note:	608 OCPs and 608 PCBs																	Please analyze for Priority Pollutants SVOCs, Pesticides, and PCBs
6		625CTR																	
7	YLJ																		
8	6/16/2020																		
9																			
10																			

Relinquished by (Signature and Printed Name):	Date / Time:	Received by (Signature and Printed Name):	Date / Time:
Emil R	6/15/20 1800	[signature]	6/16/20 800

Turn Around Time (TAT): ☐ Same Day; ☐ Next Workday; ☐ 2 Workdays; ☐ 3 Workdays; ☑ Routine 5-7 Workdays
*TAT starts at 8 AM the following day if samples are received after 5:00 PM

Special Instructions: Include reports@assetlaboratories.com, tmall@assetlaboratories.com, sonnylorenzo@assetlaboratories.com, ludlicgo.vdinda@assetlaboratories.com when reporting. Results needed 6/25/20

Terms:
1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis: 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.
5. Trip Blanks and Equipment Blanks are billable sample.
6. ASSET Laboratories is not responsible for samples collected using incorrect methodology.
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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.

Preservatives: H: HCl; N: HNO_3; S: H_2SO_4; C: <= 6°C; Z: $Zn(AC)_2$; O: NaOH; T: $Na_2S_2O_3$; Others/Specify:

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

White = Laboratory Copy Yellow = Customer's Copy

GSO# 549367515

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL

SUBCOC to BC LABS

CHAIN OF CUSTODY RECORD

20-17340

Page 1 of

Contact us:
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www.assetlaboratories.com

Client: ASSET Laboratories	Report to: Emil Angelo Rodriguez	Bill to: Elvira Allegaert/Accounts Payable
Address: 11110 Artesia Blvd Ste B	Company: ASSET Laboratories	Address: 11110 Artesia Blvd Ste B
Address: Cerritos, CA 90703	Email: emilangelo@assetlaboratories.com	Cerritos, CA 90703
Phone: 562.219.7435 Fax: 562.219.7436	Address: 11110 Artesia Blvd Ste B	Email to: elvira@assetlaboratories.com PO# N40965A
Submitted By: Emil Angelo Rodriguez	Cerritos, CA 90703	Phone: 562.219.7435 Fax: 562.218.7436
Title: Project Manager	Phone: 562.881.0611 Fax: 562.219.7436	
Signature: Date:	Sampled by: SIGNED	
I hereby authorize ASSET Labs to perform the tests indicated below:		
Project Name: SFPP Norwalk	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action	
Project Number:	Signature: Date:	

EDD Requirement: Excel EDD ☑; Geotracker ☐; Labspec ☐; Others ☐; Specify:; GlobalID:

QA/QC: RTNE ☐; RWQCB ☐; CalTrans ☐; Level III ☐; LEVEL IV ☐; Regulatory ☐; Specify State:

Sample Receipt Condition (Y / N): 1. Chilled ☐☐; 2. Headspace ☐☐; 3. Container Intact ☐☐; 4. Seal Present ☐☐; 5. IR number; 6. Method of Cooling; Sample Temp:

Matrix: Waste ☑; Sediment ☐; Potable ☐; Soil ☐; NPDES ☐; Other Solid ☐; Surface ☐

Courier:
Tracking No.

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	Ammonia N (SM-4500 NH3C)	Cyanide (EPA 335.4)	Sulfides (SM 4500 S2-D)	EPA 8081	EPA 8082	EPA 8270 CTR - NPDES Level	Turn Around Time (TAT)	No. of Containers	Container Type	Preservation	Remarks
1		EFF-06-11-20	6/11/2020	1315	X			X	X	X	X	X	X	E				EDD Requirement CH2MHILL Labspec7 edata. Please report "J" flagged down to MDL format.
2		RSW-001-06-11-20	6/11/2020	1420	X				X		X	X	X	E				
3		RSW-002-06-11-20	6/11/2020	1430	X				X		X	X	X	E				Please analyze for Priority Pollutants SVOCs, Pesticides, and PCBs
4																		
5																		
6																		
7																		
8																		
9																		
10																		

CHK BY
DISTRIBUTION
SUB OUT ☐

Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time
Emil R	6/15/20 1800	T Jackson	6-16-20 800
Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time
Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time

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Results needed 6/23/20

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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%
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Z: $Zn(AC)_2$	O: NaOH	T: $Na_2S_2O_3$	
Others/Specify:			

Container Type:

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

White = Laboratory Copy Yellow = Customer's Copy

GSO# 549367518

Chain of Custody and Cooler Receipt Form for 2017340 Page 3 of 3

BC LABORATORIES INC. — COOLER RECEIPT FORM — Page 1 Of 1

Submission #: 20-17340

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 ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

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

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: PE Thermometer ID: 274 Date/Time 6-16-20 800

Temperature: (A) 4.2 °C / (C) 4.0 °C Analyst Init TKJ

SAMPLE CONTAINERS	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr+6										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE 8oz	B	A	A							
PT NITROGEN FORMS	C									
PT TOTAL SULFIDE	A									
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 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA ~~548~~ 8082	F	E	E							
QT EPA ~~549~~ 8081	E	D	D							
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER	DEF	BCD	BC							
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: (-3D time say 14:20 But Discription matched)
Sample Numbering Completed By: [illegible] Date/Time: 6/16/20 0850
A = Actual / C = Corrected

Rev 21 05/23/2016
[S:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

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

Reported: 06/23/2020 14:08
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2017340-01	**COC Number:**	---	**Receive Date:**	06/16/2020 08:00
	Project Number:	---	**Sampling Date:**	06/11/2020 13:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EFF-06-11-20	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
2017340-02	**COC Number:**	---	**Receive Date:**	06/16/2020 08:00
	Project Number:	---	**Sampling Date:**	06/11/2020 14:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	RSW-001-06-11-20	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
2017340-03	**COC Number:**	---	**Receive Date:**	06/16/2020 08:00
	Project Number:	---	**Sampling Date:**	06/11/2020 14:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	RSW-002-06-11-20	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water

Asset Laboratories, Inc.-Cerritos
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Cerritos, CA 90703

Reported: 06/23/2020 14:08
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Organochlorine Pesticides and PCB's (EPA Method 608)

BCL Sample ID: 2017340-01 | **Client Sample Name:** EFF-06-11-20, 6/11/2020 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0010	0.00019	EPA-608	ND		1
alpha-BHC	ND	ug/L	0.0010	0.00010	EPA-608	ND		1
beta-BHC	ND	ug/L	0.0010	0.00013	EPA-608	ND		1
delta-BHC	ND	ug/L	0.0010	0.00030	EPA-608	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Chlordane (Technical)	ND	ug/L	0.10	0.0089	EPA-608	ND		1
4,4'-DDD	ND	ug/L	0.0010	0.00018	EPA-608	ND		1
4,4'-DDE	**0.00043**	**ug/L**	**0.0010**	**0.00025**	**EPA-608**	ND	**J**	1
4,4'-DDT	ND	ug/L	0.0010	0.00019	EPA-608	ND		1
Dieldrin	ND	ug/L	0.0010	0.00022	EPA-608	ND		1
Endosulfan I	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Endosulfan II	ND	ug/L	0.0010	0.00020	EPA-608	ND		1
Endosulfan sulfate	ND	ug/L	0.0010	0.00011	EPA-608	ND		1
Endrin	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Endrin aldehyde	ND	ug/L	0.0020	0.00011	EPA-608	ND		1
Heptachlor	ND	ug/L	0.0010	0.00019	EPA-608	ND		1
Heptachlor epoxide	ND	ug/L	0.0010	0.00013	EPA-608	ND		1
Methoxychlor	ND	ug/L	0.0010	0.00074	EPA-608	ND		1
Toxaphene	ND	ug/L	0.40	0.040	EPA-608	ND		1
TCMX (Surrogate)	53.6	%	40 - 140 (LCL - UCL)		EPA-608			1
Decachlorobiphenyl (Surrogate)	74.1	%	50 - 130 (LCL - UCL)		EPA-608			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-608	06/17/20 20:30	06/19/20 20:15	HKS	GC-17	1.042	B080711	EPA 608

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11110 Artesia Blvd., Suite B
Cerritos, CA 90703

Reported: 06/23/2020 14:08
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-01 | **Client Sample Name:** EFF-06-11-20, 6/11/2020 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	1.0	0.22	EPA-625	ND		1
Acenaphthylene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Aldrin	ND	ug/L	2.0	0.28	EPA-625	ND		1
Aniline	ND	ug/L	5.0	1.8	EPA-625	ND		1
Anthracene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Benzidine	ND	ug/L	5.3	3.0	EPA-625	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.42	EPA-625	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.29	EPA-625	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.21	EPA-625	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.48	EPA-625	ND		1
Benzoic acid	ND	ug/L	10	0.72	EPA-625	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.35	EPA-625	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.26	EPA-625	ND		1
alpha-BHC	ND	ug/L	2.0	0.36	EPA-625	ND		1
beta-BHC	ND	ug/L	2.0	0.25	EPA-625	ND		1
delta-BHC	ND	ug/L	2.0	0.28	EPA-625	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.32	EPA-625	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-625	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.86	EPA-625	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	1.7	EPA-625	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.0	0.20	EPA-625	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-625	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.39	EPA-625	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.23	EPA-625	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-625	ND		1
Chrysene	ND	ug/L	2.0	0.26	EPA-625	ND		1
4,4'-DDD	ND	ug/L	2.0	0.40	EPA-625	ND		1
4,4'-DDE	ND	ug/L	3.0	0.32	EPA-625	ND		1
4,4'-DDT	ND	ug/L	2.0	0.26	EPA-625	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.59	EPA-625	ND		1
Dibenzofuran	ND	ug/L	2.0	0.20	EPA-625	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.055	EPA-625	ND		1

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Reported: 06/23/2020 14:08
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-01 | **Client Sample Name:** EFF-06-11-20, 6/11/2020 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	1.0	0.066	EPA-625	ND		1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.050	EPA-625	ND		1
3,3-Dichlorobenzidine	ND	ug/L	5.0	0.41	EPA-625	ND		1
Dieldrin	ND	ug/L	3.0	0.45	EPA-625	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.20	EPA-625	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.25	EPA-625	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.87	EPA-625	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.46	EPA-625	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.31	EPA-625	ND		1
1,2-Diphenylhydrazine	ND	ug/L	1.0	0.44	EPA-625	ND		1
Endosulfan I	ND	ug/L	10	0.37	EPA-625	ND		1
Endosulfan II	ND	ug/L	10	0.37	EPA-625	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.37	EPA-625	ND		1
Endrin	ND	ug/L	2.0	0.67	EPA-625	ND		1
Endrin aldehyde	ND	ug/L	10	0.37	EPA-625	ND		1
Fluoranthene	ND	ug/L	1.0	0.41	EPA-625	ND		1
Fluorene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Heptachlor	ND	ug/L	2.0	0.22	EPA-625	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.35	EPA-625	ND		1
Hexachlorobenzene	ND	ug/L	1.0	0.23	EPA-625	ND		1
Hexachlorobutadiene	ND	ug/L	1.0	0.078	EPA-625	ND		1
Hexachlorocyclopentadiene	ND	ug/L	1.0	0.35	EPA-625	ND		1
Hexachloroethane	ND	ug/L	1.0	0.057	EPA-625	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.71	EPA-625	ND		1
Isophorone	ND	ug/L	1.0	0.41	EPA-625	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Naphthalene	ND	ug/L	1.0	0.068	EPA-625	ND		1
2-Naphthylamine	ND	ug/L	20	1.7	EPA-625	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.36	EPA-625	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.52	EPA-625	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.85	EPA-625	ND		1
Nitrobenzene	ND	ug/L	1.0	0.39	EPA-625	ND		1

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Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-01 | **Client Sample Name:** EFF-06-11-20, 6/11/2020 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.56	EPA-625	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	0.56	EPA-625	ND		1
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.27	EPA-625	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Pyrene	ND	ug/L	2.0	0.31	EPA-625	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.076	EPA-625	ND		1
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.42	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.85	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	1.0	0.26	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	1.0	0.30	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	5.0	0.43	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	5.0	0.37	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	0.55	EPA-625	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	0.72	EPA-625	ND		1
Total Methylphenol	ND	ug/L	4.0	1.3	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.39	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.66	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	1.0	0.43	EPA-625	ND		1
Phenol	ND	ug/L	1.0	0.84	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.36	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.34	EPA-625	ND		1
2-Fluorophenol (Surrogate)	67.0	%	36 - 98 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	58.8	%	10 - 89 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	89.5	%	59 - 122 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	90.0	%	44 - 138 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	137	%	51 - 139 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	114	%	23 - 173 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-625	06/17/20 19:00	06/18/20 20:44	MK1	HPCHEM	1.031	B080591	EPA 3510C

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Reported: 06/23/2020 14:08
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Water Analysis (General Chemistry)

BCL Sample ID: 2017340-01 | **Client Sample Name:** EFF-06-11-20, 6/11/2020 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Cyanide	ND	mg/L	0.0050	0.0017	EPA-335.4	ND		1
Ammonia as N (Distilled)	**0.13**	**mg/L**	**0.20**	**0.067**	**SM-4500-NH3G**	ND	**J**	2
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-335.4	06/17/20 08:01	06/17/20 12:57	JMH	KONE-1	1	B080352	EPA 335.4 Total
2	SM-4500-NH3G	06/17/20 10:00	06/22/20 11:55	JMH2	SC-1	1.079	B080386	SM 4500-NH3G
3	SM-4500SD	06/17/20 15:00	06/17/20 15:00	JKS	SPEC06	1	B080362	SM 4500SD

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Reported: 06/23/2020 14:08
Project: Cerritos
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Project Manager: Emil Angelo Rodriguez

Organochlorine Pesticides and PCB's (EPA Method 608)

BCL Sample ID: 2017340-02 | **Client Sample Name:** RSW-001-06-11-20, 6/11/2020 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0010	0.00019	EPA-608	ND		1
alpha-BHC	ND	ug/L	0.0010	0.00010	EPA-608	ND		1
beta-BHC	ND	ug/L	0.0010	0.00013	EPA-608	ND		1
delta-BHC	ND	ug/L	0.0010	0.00030	EPA-608	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Chlordane (Technical)	ND	ug/L	0.10	0.0089	EPA-608	ND		1
4,4'-DDD	ND	ug/L	0.0010	0.00018	EPA-608	ND		1
4,4'-DDE	ND	ug/L	0.0010	0.00025	EPA-608	ND		1
4,4'-DDT	**0.0048**	**ug/L**	**0.0010**	**0.00019**	**EPA-608**	ND		1
Dieldrin	ND	ug/L	0.0010	0.00022	EPA-608	ND		1
Endosulfan I	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Endosulfan II	ND	ug/L	0.0010	0.00020	EPA-608	ND		1
Endosulfan sulfate	ND	ug/L	0.0010	0.00011	EPA-608	ND		1
Endrin	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Endrin aldehyde	ND	ug/L	0.0020	0.00011	EPA-608	ND		1
Heptachlor	ND	ug/L	0.0010	0.00019	EPA-608	ND		1
Heptachlor epoxide	ND	ug/L	0.0010	0.00013	EPA-608	ND		1
Methoxychlor	ND	ug/L	0.0010	0.00074	EPA-608	ND		1
Toxaphene	ND	ug/L	0.40	0.040	EPA-608	ND		1
TCMX (Surrogate)	83.0	%	40 - 140 (LCL - UCL)		EPA-608			1
Decachlorobiphenyl (Surrogate)	62.1	%	50 - 130 (LCL - UCL)		EPA-608			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-608	06/17/20 20:30	06/19/20 19:42	HKS	GC-17	1.020	B080711	EPA 608

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Reported: 06/23/2020 14:08
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-02 | **Client Sample Name:** RSW-001-06-11-20, 6/11/2020 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	10	2.2	EPA-625	ND	A10	1
Acenaphthylene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Aldrin	ND	ug/L	20	2.8	EPA-625	ND	A10	1
Aniline	ND	ug/L	50	18	EPA-625	ND	A10	1
Anthracene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Benzidine	ND	ug/L	53	30	EPA-625	ND	A10	1
Benzo[a]anthracene	ND	ug/L	20	3.0	EPA-625	ND	A10	1
Benzo[b]fluoranthene	ND	ug/L	20	4.2	EPA-625	ND	A10	1
Benzo[k]fluoranthene	ND	ug/L	20	2.9	EPA-625	ND	A10	1
Benzo[a]pyrene	ND	ug/L	20	2.1	EPA-625	ND	A10	1
Benzo[g,h,i]perylene	ND	ug/L	20	4.8	EPA-625	ND	A10	1
Benzoic acid	ND	ug/L	100	7.2	EPA-625	ND	A10	1
Benzyl alcohol	ND	ug/L	20	3.5	EPA-625	ND	A10	1
Benzyl butyl phthalate	ND	ug/L	20	2.6	EPA-625	ND	A10	1
alpha-BHC	ND	ug/L	20	3.6	EPA-625	ND	A10	1
beta-BHC	ND	ug/L	20	2.5	EPA-625	ND	A10	1
delta-BHC	ND	ug/L	20	2.8	EPA-625	ND	A10	1
gamma-BHC (Lindane)	ND	ug/L	20	3.2	EPA-625	ND	A10	1
bis(2-Chloroethoxy)methane	ND	ug/L	20	2.7	EPA-625	ND	A10	1
bis(2-Chloroethyl) ether	ND	ug/L	10	8.6	EPA-625	ND	A10	1
bis(2-Chloroisopropyl)ether	ND	ug/L	20	17	EPA-625	ND	A10	1
bis(2-Ethylhexyl)phthalate	ND	ug/L	30	2.0	EPA-625	ND	A10	1
4-Bromophenyl phenyl ether	ND	ug/L	20	2.0	EPA-625	ND	A10	1
4-Chloroaniline	ND	ug/L	20	3.9	EPA-625	ND	A10	1
2-Chloronaphthalene	ND	ug/L	20	2.3	EPA-625	ND	A10	1
4-Chlorophenyl phenyl ether	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Chrysene	ND	ug/L	20	2.6	EPA-625	ND	A10	1
4,4'-DDD	ND	ug/L	20	4.0	EPA-625	ND	A10	1
4,4'-DDE	ND	ug/L	30	3.2	EPA-625	ND	A10	1
4,4'-DDT	ND	ug/L	20	2.6	EPA-625	ND	A10	1
Dibenzo[a,h]anthracene	ND	ug/L	30	5.9	EPA-625	ND	A10	1
Dibenzofuran	ND	ug/L	20	2.0	EPA-625	ND	A10	1
1,2-Dichlorobenzene	ND	ug/L	20	0.55	EPA-625	ND	A10	1

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Reported: 06/23/2020 14:08
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-02 | **Client Sample Name:** RSW-001-06-11-20, 6/11/2020 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	10	0.66	EPA-625	ND	A10	1
1,4-Dichlorobenzene	ND	ug/L	10	0.50	EPA-625	ND	A10	1
3,3-Dichlorobenzidine	ND	ug/L	50	4.1	EPA-625	ND	A10	1
Dieldrin	ND	ug/L	30	4.5	EPA-625	ND	A10	1
Diethyl phthalate	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Dimethyl phthalate	ND	ug/L	20	2.5	EPA-625	ND	A10	1
Di-n-butyl phthalate	ND	ug/L	20	2.0	EPA-625	ND	A10	1
2,4-Dinitrotoluene	ND	ug/L	20	8.7	EPA-625	ND	A10	1
2,6-Dinitrotoluene	ND	ug/L	20	4.6	EPA-625	ND	A10	1
Di-n-octyl phthalate	ND	ug/L	20	3.1	EPA-625	ND	A10	1
1,2-Diphenylhydrazine	ND	ug/L	10	4.4	EPA-625	ND	A10	1
Endosulfan I	ND	ug/L	100	3.7	EPA-625	ND	A10	1
Endosulfan II	ND	ug/L	100	3.7	EPA-625	ND	A10	1
Endosulfan sulfate	ND	ug/L	30	3.7	EPA-625	ND	A10	1
Endrin	ND	ug/L	20	6.7	EPA-625	ND	A10	1
Endrin aldehyde	ND	ug/L	100	3.7	EPA-625	ND	A10	1
Fluoranthene	ND	ug/L	10	4.1	EPA-625	ND	A10	1
Fluorene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Heptachlor	ND	ug/L	20	2.2	EPA-625	ND	A10	1
Heptachlor epoxide	ND	ug/L	20	3.5	EPA-625	ND	A10	1
Hexachlorobenzene	ND	ug/L	10	2.3	EPA-625	ND	A10	1
Hexachlorobutadiene	ND	ug/L	10	0.78	EPA-625	ND	A10	1
Hexachlorocyclopentadiene	ND	ug/L	10	3.5	EPA-625	ND	A10	1
Hexachloroethane	ND	ug/L	10	0.57	EPA-625	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	ug/L	20	7.1	EPA-625	ND	A10	1
Isophorone	ND	ug/L	10	4.1	EPA-625	ND	A10	1
2-Methylnaphthalene	ND	ug/L	20	3.0	EPA-625	ND	A10	1
Naphthalene	ND	ug/L	10	0.68	EPA-625	ND	A10	1
2-Naphthylamine	ND	ug/L	200	17	EPA-625	ND	A10	1
2-Nitroaniline	ND	ug/L	20	3.6	EPA-625	ND	A10	1
3-Nitroaniline	ND	ug/L	20	5.2	EPA-625	ND	A10	1
4-Nitroaniline	ND	ug/L	50	8.5	EPA-625	ND	A10	1
Nitrobenzene	ND	ug/L	10	3.9	EPA-625	ND	A10	1

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11110 Artesia Blvd., Suite B
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Reported: 06/23/2020 14:08
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-02 | **Client Sample Name:** RSW-001-06-11-20, 6/11/2020 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	20	5.6	EPA-625	ND	A10	1
N-Nitrosodi-N-propylamine	ND	ug/L	20	5.6	EPA-625	ND	A10	1
N-Nitrosodiphenylamine	ND	ug/L	10	2.7	EPA-625	ND	A10	1
Phenanthrene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Pyrene	ND	ug/L	20	3.1	EPA-625	ND	A10	1
1,2,4-Trichlorobenzene	ND	ug/L	10	0.76	EPA-625	ND	A10	1
4-Chloro-3-methylphenol	ND	ug/L	10	4.2	EPA-625	ND	A10	1
2-Chlorophenol	ND	ug/L	20	8.5	EPA-625	ND	A10	1
2,4-Dichlorophenol	ND	ug/L	10	2.6	EPA-625	ND	A10	1
2,4-Dimethylphenol	ND	ug/L	10	3.0	EPA-625	ND	A10	1
4,6-Dinitro-2-methylphenol	ND	ug/L	50	4.3	EPA-625	ND	A10	1
2,4-Dinitrophenol	ND	ug/L	50	3.7	EPA-625	ND	A10	1
2-Methylphenol	ND	ug/L	20	5.5	EPA-625	ND	A10	1
3- & 4-Methylphenol	ND	ug/L	20	7.2	EPA-625	ND	A10	1
Total Methylphenol	ND	ug/L	40	13	EPA-625	ND	A10	1
2-Nitrophenol	ND	ug/L	20	3.9	EPA-625	ND	A10	1
4-Nitrophenol	ND	ug/L	20	6.6	EPA-625	ND	A10	1
Pentachlorophenol	ND	ug/L	10	4.3	EPA-625	ND	A10	1
Phenol	ND	ug/L	10	8.4	EPA-625	ND	A10	1
2,4,5-Trichlorophenol	ND	ug/L	50	3.6	EPA-625	ND	A10	1
2,4,6-Trichlorophenol	ND	ug/L	50	3.4	EPA-625	ND	A10	1
2-Fluorophenol (Surrogate)	45.8	%	36 - 98 (LCL - UCL)		EPA-625		A10	1
Phenol-d5 (Surrogate)	36.3	%	10 - 89 (LCL - UCL)		EPA-625		A10	1
Nitrobenzene-d5 (Surrogate)	97.3	%	59 - 122 (LCL - UCL)		EPA-625		A10	1
2-Fluorobiphenyl (Surrogate)	94.8	%	44 - 138 (LCL - UCL)		EPA-625		A10	1
2,4,6-Tribromophenol (Surrogate)	105	%	51 - 139 (LCL - UCL)		EPA-625		A10	1
p-Terphenyl-d14 (Surrogate)	99.5	%	23 - 173 (LCL - UCL)		EPA-625		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-625	06/17/20 19:00	06/19/20 01:47	MK1	HPCHEM	9.899	B080591	EPA 3510C

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Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Water Analysis (General Chemistry)

BCL Sample ID: 2017340-02 | **Client Sample Name:** RSW-001-06-11-20, 6/11/2020 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Cyanide	ND	mg/L	0.0050	0.0017	EPA-335.4	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-335.4	06/17/20 08:01	06/17/20 12:57	JMH	KONE-1	1	B080352	EPA 335.4 Total

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Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Organochlorine Pesticides and PCB's (EPA Method 608)

BCL Sample ID: 2017340-03 | **Client Sample Name:** RSW-002-06-11-20, 6/11/2020 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0010	0.00019	EPA-608	ND		1
alpha-BHC	ND	ug/L	0.0010	0.00010	EPA-608	ND		1
beta-BHC	ND	ug/L	0.0010	0.00013	EPA-608	ND		1
delta-BHC	ND	ug/L	0.0010	0.00030	EPA-608	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Chlordane (Technical)	ND	ug/L	0.10	0.0089	EPA-608	ND		1
4,4'-DDD	**0.0022**	**ug/L**	**0.0010**	**0.00018**	**EPA-608**	ND		1
4,4'-DDE	ND	ug/L	0.0010	0.00025	EPA-608	ND		1
4,4'-DDT	**0.0045**	**ug/L**	**0.0010**	**0.00019**	**EPA-608**	ND		1
Dieldrin	ND	ug/L	0.0010	0.00022	EPA-608	ND		1
Endosulfan I	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Endosulfan II	ND	ug/L	0.0010	0.00020	EPA-608	ND		1
Endosulfan sulfate	ND	ug/L	0.0010	0.00011	EPA-608	ND		1
Endrin	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Endrin aldehyde	ND	ug/L	0.0020	0.00011	EPA-608	ND		1
Heptachlor	ND	ug/L	0.0010	0.00019	EPA-608	ND		1
Heptachlor epoxide	ND	ug/L	0.0010	0.00013	EPA-608	ND		1
Methoxychlor	ND	ug/L	0.0010	0.00074	EPA-608	ND		1
Toxaphene	ND	ug/L	0.40	0.040	EPA-608	ND		1
TCMX (Surrogate)	93.9	%	40 - 140 (LCL - UCL)		EPA-608			1
Decachlorobiphenyl (Surrogate)	65.9	%	50 - 130 (LCL - UCL)		EPA-608			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-608	06/17/20 20:30	06/19/20 19:59	HKS	GC-17	1.010	B080711	EPA 608

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Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-03 | **Client Sample Name:** RSW-002-06-11-20, 6/11/2020 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	10	2.2	EPA-625	ND	A10	1
Acenaphthylene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Aldrin	ND	ug/L	20	2.8	EPA-625	ND	A10	1
Aniline	ND	ug/L	50	18	EPA-625	ND	A10	1
Anthracene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Benzidine	ND	ug/L	53	30	EPA-625	ND	A10	1
Benzo[a]anthracene	ND	ug/L	20	3.0	EPA-625	ND	A10	1
Benzo[b]fluoranthene	ND	ug/L	20	4.2	EPA-625	ND	A10	1
Benzo[k]fluoranthene	ND	ug/L	20	2.9	EPA-625	ND	A10	1
Benzo[a]pyrene	ND	ug/L	20	2.1	EPA-625	ND	A10	1
Benzo[g,h,i]perylene	ND	ug/L	20	4.8	EPA-625	ND	A10	1
Benzoic acid	ND	ug/L	100	7.2	EPA-625	ND	A10	1
Benzyl alcohol	ND	ug/L	20	3.5	EPA-625	ND	A10	1
Benzyl butyl phthalate	ND	ug/L	20	2.6	EPA-625	ND	A10	1
alpha-BHC	ND	ug/L	20	3.6	EPA-625	ND	A10	1
beta-BHC	ND	ug/L	20	2.5	EPA-625	ND	A10	1
delta-BHC	ND	ug/L	20	2.8	EPA-625	ND	A10	1
gamma-BHC (Lindane)	ND	ug/L	20	3.2	EPA-625	ND	A10	1
bis(2-Chloroethoxy)methane	ND	ug/L	20	2.7	EPA-625	ND	A10	1
bis(2-Chloroethyl) ether	ND	ug/L	10	8.6	EPA-625	ND	A10	1
bis(2-Chloroisopropyl)ether	ND	ug/L	20	17	EPA-625	ND	A10	1
bis(2-Ethylhexyl)phthalate	ND	ug/L	30	2.0	EPA-625	ND	A10	1
4-Bromophenyl phenyl ether	ND	ug/L	20	2.0	EPA-625	ND	A10	1
4-Chloroaniline	ND	ug/L	20	3.9	EPA-625	ND	A10	1
2-Chloronaphthalene	ND	ug/L	20	2.3	EPA-625	ND	A10	1
4-Chlorophenyl phenyl ether	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Chrysene	ND	ug/L	20	2.6	EPA-625	ND	A10	1
4,4'-DDD	ND	ug/L	20	4.0	EPA-625	ND	A10	1
4,4'-DDE	ND	ug/L	30	3.2	EPA-625	ND	A10	1
4,4'-DDT	ND	ug/L	20	2.6	EPA-625	ND	A10	1
Dibenzo[a,h]anthracene	ND	ug/L	30	5.9	EPA-625	ND	A10	1
Dibenzofuran	ND	ug/L	20	2.0	EPA-625	ND	A10	1
1,2-Dichlorobenzene	ND	ug/L	20	0.55	EPA-625	ND	A10	1

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Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-03 | **Client Sample Name:** RSW-002-06-11-20, 6/11/2020 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	10	0.66	EPA-625	ND	A10	1
1,4-Dichlorobenzene	ND	ug/L	10	0.50	EPA-625	ND	A10	1
3,3-Dichlorobenzidine	ND	ug/L	50	4.1	EPA-625	ND	A10	1
Dieldrin	ND	ug/L	30	4.5	EPA-625	ND	A10	1
Diethyl phthalate	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Dimethyl phthalate	ND	ug/L	20	2.5	EPA-625	ND	A10	1
Di-n-butyl phthalate	ND	ug/L	20	2.0	EPA-625	ND	A10	1
2,4-Dinitrotoluene	ND	ug/L	20	8.7	EPA-625	ND	A10	1
2,6-Dinitrotoluene	ND	ug/L	20	4.6	EPA-625	ND	A10	1
Di-n-octyl phthalate	ND	ug/L	20	3.1	EPA-625	ND	A10	1
1,2-Diphenylhydrazine	ND	ug/L	10	4.4	EPA-625	ND	A10	1
Endosulfan I	ND	ug/L	100	3.7	EPA-625	ND	A10	1
Endosulfan II	ND	ug/L	100	3.7	EPA-625	ND	A10	1
Endosulfan sulfate	ND	ug/L	30	3.7	EPA-625	ND	A10	1
Endrin	ND	ug/L	20	6.7	EPA-625	ND	A10	1
Endrin aldehyde	ND	ug/L	100	3.7	EPA-625	ND	A10	1
Fluoranthene	ND	ug/L	10	4.1	EPA-625	ND	A10	1
Fluorene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Heptachlor	ND	ug/L	20	2.2	EPA-625	ND	A10	1
Heptachlor epoxide	ND	ug/L	20	3.5	EPA-625	ND	A10	1
Hexachlorobenzene	ND	ug/L	10	2.3	EPA-625	ND	A10	1
Hexachlorobutadiene	ND	ug/L	10	0.78	EPA-625	ND	A10	1
Hexachlorocyclopentadiene	ND	ug/L	10	3.5	EPA-625	ND	A10	1
Hexachloroethane	ND	ug/L	10	0.57	EPA-625	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	ug/L	20	7.1	EPA-625	ND	A10	1
Isophorone	ND	ug/L	10	4.1	EPA-625	ND	A10	1
2-Methylnaphthalene	ND	ug/L	20	3.0	EPA-625	ND	A10	1
Naphthalene	ND	ug/L	10	0.68	EPA-625	ND	A10	1
2-Naphthylamine	ND	ug/L	200	17	EPA-625	ND	A10	1
2-Nitroaniline	ND	ug/L	20	3.6	EPA-625	ND	A10	1
3-Nitroaniline	ND	ug/L	20	5.2	EPA-625	ND	A10	1
4-Nitroaniline	ND	ug/L	50	8.5	EPA-625	ND	A10	1
Nitrobenzene	ND	ug/L	10	3.9	EPA-625	ND	A10	1

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-03 | **Client Sample Name:** RSW-002-06-11-20, 6/11/2020 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	20	5.6	EPA-625	ND	A10	1
N-Nitrosodi-N-propylamine	ND	ug/L	20	5.6	EPA-625	ND	A10	1
N-Nitrosodiphenylamine	ND	ug/L	10	2.7	EPA-625	ND	A10	1
Phenanthrene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Pyrene	ND	ug/L	20	3.1	EPA-625	ND	A10	1
1,2,4-Trichlorobenzene	ND	ug/L	10	0.76	EPA-625	ND	A10	1
4-Chloro-3-methylphenol	ND	ug/L	10	4.2	EPA-625	ND	A10	1
2-Chlorophenol	ND	ug/L	20	8.5	EPA-625	ND	A10	1
2,4-Dichlorophenol	ND	ug/L	10	2.6	EPA-625	ND	A10	1
2,4-Dimethylphenol	ND	ug/L	10	3.0	EPA-625	ND	A10	1
4,6-Dinitro-2-methylphenol	ND	ug/L	50	4.3	EPA-625	ND	A10	1
2,4-Dinitrophenol	ND	ug/L	50	3.7	EPA-625	ND	A10	1
2-Methylphenol	ND	ug/L	20	5.5	EPA-625	ND	A10	1
3- & 4-Methylphenol	ND	ug/L	20	7.2	EPA-625	ND	A10	1
Total Methylphenol	ND	ug/L	40	13	EPA-625	ND	A10	1
2-Nitrophenol	ND	ug/L	20	3.9	EPA-625	ND	A10	1
4-Nitrophenol	ND	ug/L	20	6.6	EPA-625	ND	A10	1
Pentachlorophenol	ND	ug/L	10	4.3	EPA-625	ND	A10	1
Phenol	ND	ug/L	10	8.4	EPA-625	ND	A10	1
2,4,5-Trichlorophenol	ND	ug/L	50	3.6	EPA-625	ND	A10	1
2,4,6-Trichlorophenol	ND	ug/L	50	3.4	EPA-625	ND	A10	1
2-Fluorophenol (Surrogate)	52.8	%	36 - 98 (LCL - UCL)		EPA-625		A10	1
Phenol-d5 (Surrogate)	34.1	%	10 - 89 (LCL - UCL)		EPA-625		A10	1
Nitrobenzene-d5 (Surrogate)	82.1	%	59 - 122 (LCL - UCL)		EPA-625		A10	1
2-Fluorobiphenyl (Surrogate)	81.6	%	44 - 138 (LCL - UCL)		EPA-625		A10	1
2,4,6-Tribromophenol (Surrogate)	97.9	%	51 - 139 (LCL - UCL)		EPA-625		A10	1
p-Terphenyl-d14 (Surrogate)	74.9	%	23 - 173 (LCL - UCL)		EPA-625		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-625	06/17/20 19:00	06/19/20 02:14	MK1	HPCHEM	9.697	B080591	EPA 3510C

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Reported: 06/23/2020 14:08
Project: Cerritos
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Project Manager: Emil Angelo Rodriguez

Water Analysis (General Chemistry)

BCL Sample ID: 2017340-03 | **Client Sample Name:** RSW-002-06-11-20, 6/11/2020 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Cyanide	ND	mg/L	0.0050	0.0017	EPA-335.4	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-335.4	06/17/20 08:01	06/17/20 12:57	JMH	KONE-1	1	B080352	EPA 335.4 Total

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Reported: 06/23/2020 14:08
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Organochlorine Pesticides and PCB's (EPA Method 608)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080711						
Aldrin	B080711-BLK1	ND	ug/L	0.0010	0.00019	
alpha-BHC	B080711-BLK1	ND	ug/L	0.0010	0.00010	
beta-BHC	B080711-BLK1	ND	ug/L	0.0010	0.00013	
delta-BHC	B080711-BLK1	ND	ug/L	0.0010	0.00030	
gamma-BHC (Lindane)	B080711-BLK1	ND	ug/L	0.0010	0.00014	
Chlordane (Technical)	B080711-BLK1	ND	ug/L	0.10	0.0089	
4,4'-DDD	B080711-BLK1	ND	ug/L	0.0010	0.00018	
4,4'-DDE	B080711-BLK1	ND	ug/L	0.0010	0.00025	
4,4'-DDT	B080711-BLK1	ND	ug/L	0.0010	0.00019	
Dieldrin	B080711-BLK1	ND	ug/L	0.0010	0.00022	
Endosulfan I	B080711-BLK1	ND	ug/L	0.0010	0.00014	
Endosulfan II	B080711-BLK1	ND	ug/L	0.0010	0.00020	
Endosulfan sulfate	B080711-BLK1	ND	ug/L	0.0010	0.00011	
Endrin	B080711-BLK1	ND	ug/L	0.0010	0.00014	
Endrin aldehyde	B080711-BLK1	ND	ug/L	0.0020	0.00011	
Heptachlor	B080711-BLK1	ND	ug/L	0.0010	0.00019	
Heptachlor epoxide	B080711-BLK1	ND	ug/L	0.0010	0.00013	
Methoxychlor	B080711-BLK1	ND	ug/L	0.0010	0.00074	
Toxaphene	B080711-BLK1	ND	ug/L	0.40	0.040	
TCMX (Surrogate)	**B080711-BLK1**	**68.8**	%	**40 - 140 (LCL - UCL)**		
Decachlorobiphenyl (Surrogate)	**B080711-BLK1**	**61.6**	%	**50 - 130 (LCL - UCL)**		

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Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Organochlorine Pesticides and PCB's (EPA Method 608)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B080711										
Aldrin	B080711-BS1	LCS	0.016404	0.030000	ug/L	54.7		60 - 130		L01
gamma-BHC (Lindane)	B080711-BS1	LCS	0.020694	0.030000	ug/L	69.0		60 - 130		
4,4'-DDT	B080711-BS1	LCS	0.019774	0.030000	ug/L	65.9		60 - 130		
Dieldrin	B080711-BS1	LCS	0.020366	0.030000	ug/L	67.9		60 - 130		
Endrin	B080711-BS1	LCS	0.022312	0.030000	ug/L	74.4		60 - 130		
Heptachlor	B080711-BS1	LCS	0.017158	0.030000	ug/L	57.2		60 - 130		L01
TCMX (Surrogate)	B080711-BS1	LCS	0.036078	0.060000	ug/L	60.1		40 - 140		
Decachlorobiphenyl (Surrogate)	B080711-BS1	LCS	0.062628	0.12000	ug/L	52.2		50 - 130		

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Organochlorine Pesticides and PCB's (EPA Method 608)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B080711	Used client sample: N										
Aldrin	MS	2016224-59	ND	0.019734	0.030000	ug/L		65.8		60 - 130	
	MSD	2016224-59	ND	0.018390	0.030000	ug/L	7.1	61.3	30	60 - 130	
gamma-BHC (Lindane)	MS	2016224-59	ND	0.023812	0.030000	ug/L		79.4		60 - 130	
	MSD	2016224-59	ND	0.022080	0.030000	ug/L	7.5	73.6	30	60 - 130	
4,4'-DDT	MS	2016224-59	ND	0.024840	0.030000	ug/L		82.8		60 - 130	
	MSD	2016224-59	ND	0.023340	0.030000	ug/L	6.2	77.8	30	60 - 130	
Dieldrin	MS	2016224-59	ND	0.023374	0.030000	ug/L		77.9		65 - 130	
	MSD	2016224-59	ND	0.021910	0.030000	ug/L	6.5	73.0	30	65 - 130	
Endrin	MS	2016224-59	ND	0.026812	0.030000	ug/L		89.4		60 - 130	
	MSD	2016224-59	ND	0.025286	0.030000	ug/L	5.9	84.3	30	60 - 130	
Heptachlor	MS	2016224-59	ND	0.020948	0.030000	ug/L		69.8		60 - 130	
	MSD	2016224-59	ND	0.019326	0.030000	ug/L	8.1	64.4	30	60 - 130	
TCMX (Surrogate)	MS	2016224-59	ND	0.041050	0.060000	ug/L		68.4		40 - 140	
	MSD	2016224-59	ND	0.037388	0.060000	ug/L	9.3	62.3		40 - 140	
Decachlorobiphenyl (Surrogate)	MS	2016224-59	ND	0.082406	0.12000	ug/L		68.7		50 - 130	
	MSD	2016224-59	ND	0.080436	0.12000	ug/L	2.4	67.0		50 - 130	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080591						
Acenaphthene	B080591-BLK1	ND	ug/L	1.0	0.22	
Acenaphthylene	B080591-BLK1	ND	ug/L	2.0	0.20	
Aldrin	B080591-BLK1	ND	ug/L	2.0	0.28	
Aniline	B080591-BLK1	ND	ug/L	5.0	1.8	
Anthracene	B080591-BLK1	ND	ug/L	2.0	0.20	
Benzidine	B080591-BLK1	ND	ug/L	5.3	3.0	
Benzo[a]anthracene	B080591-BLK1	ND	ug/L	2.0	0.30	
Benzo[b]fluoranthene	B080591-BLK1	ND	ug/L	2.0	0.42	
Benzo[k]fluoranthene	B080591-BLK1	ND	ug/L	2.0	0.29	
Benzo[a]pyrene	B080591-BLK1	ND	ug/L	2.0	0.21	
Benzo[g,h,i]perylene	B080591-BLK1	ND	ug/L	2.0	0.48	
Benzoic acid	B080591-BLK1	ND	ug/L	10	0.72	
Benzyl alcohol	B080591-BLK1	ND	ug/L	2.0	0.35	
Benzyl butyl phthalate	B080591-BLK1	ND	ug/L	2.0	0.26	
alpha-BHC	B080591-BLK1	ND	ug/L	2.0	0.36	
beta-BHC	B080591-BLK1	ND	ug/L	2.0	0.25	
delta-BHC	B080591-BLK1	ND	ug/L	2.0	0.28	
gamma-BHC (Lindane)	B080591-BLK1	ND	ug/L	2.0	0.32	
bis(2-Chloroethoxy)methane	B080591-BLK1	ND	ug/L	2.0	0.27	
bis(2-Chloroethyl) ether	B080591-BLK1	ND	ug/L	1.0	0.86	
bis(2-Chloroisopropyl)ether	B080591-BLK1	ND	ug/L	2.0	1.7	
bis(2-Ethylhexyl)phthalate	B080591-BLK1	ND	ug/L	3.0	0.20	
4-Bromophenyl phenyl ether	B080591-BLK1	ND	ug/L	2.0	0.20	
4-Chloroaniline	B080591-BLK1	ND	ug/L	2.0	0.39	
2-Chloronaphthalene	B080591-BLK1	ND	ug/L	2.0	0.23	
4-Chlorophenyl phenyl ether	B080591-BLK1	ND	ug/L	2.0	0.20	
Chrysene	B080591-BLK1	ND	ug/L	2.0	0.26	
4,4'-DDD	B080591-BLK1	ND	ug/L	2.0	0.40	
4,4'-DDE	B080591-BLK1	ND	ug/L	3.0	0.32	
4,4'-DDT	B080591-BLK1	ND	ug/L	2.0	0.26	
Dibenzo[a,h]anthracene	B080591-BLK1	ND	ug/L	3.0	0.59	
Dibenzofuran	B080591-BLK1	ND	ug/L	2.0	0.20	
1,2-Dichlorobenzene	B080591-BLK1	ND	ug/L	2.0	0.055	
1,3-Dichlorobenzene	B080591-BLK1	ND	ug/L	1.0	0.066	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080591						
1,4-Dichlorobenzene	B080591-BLK1	ND	ug/L	1.0	0.050	
3,3-Dichlorobenzidine	B080591-BLK1	ND	ug/L	5.0	0.41	
Dieldrin	B080591-BLK1	ND	ug/L	3.0	0.45	
Diethyl phthalate	B080591-BLK1	ND	ug/L	2.0	0.20	
Dimethyl phthalate	B080591-BLK1	ND	ug/L	2.0	0.25	
Di-n-butyl phthalate	B080591-BLK1	ND	ug/L	2.0	0.20	
2,4-Dinitrotoluene	B080591-BLK1	ND	ug/L	2.0	0.87	
2,6-Dinitrotoluene	B080591-BLK1	ND	ug/L	2.0	0.46	
Di-n-octyl phthalate	B080591-BLK1	ND	ug/L	2.0	0.31	
1,2-Diphenylhydrazine	B080591-BLK1	ND	ug/L	1.0	0.44	
Endosulfan I	B080591-BLK1	ND	ug/L	10	0.37	
Endosulfan II	B080591-BLK1	ND	ug/L	10	0.37	
Endosulfan sulfate	B080591-BLK1	ND	ug/L	3.0	0.37	
Endrin	B080591-BLK1	ND	ug/L	2.0	0.67	
Endrin aldehyde	B080591-BLK1	ND	ug/L	10	0.37	
Fluoranthene	B080591-BLK1	ND	ug/L	1.0	0.41	
Fluorene	B080591-BLK1	ND	ug/L	2.0	0.20	
Heptachlor	B080591-BLK1	ND	ug/L	2.0	0.22	
Heptachlor epoxide	B080591-BLK1	ND	ug/L	2.0	0.35	
Hexachlorobenzene	B080591-BLK1	ND	ug/L	1.0	0.23	
Hexachlorobutadiene	B080591-BLK1	ND	ug/L	1.0	0.078	
Hexachlorocyclopentadiene	B080591-BLK1	ND	ug/L	1.0	0.35	
Hexachloroethane	B080591-BLK1	ND	ug/L	1.0	0.057	
Indeno[1,2,3-cd]pyrene	B080591-BLK1	ND	ug/L	2.0	0.71	
Isophorone	B080591-BLK1	ND	ug/L	1.0	0.41	
2-Methylnaphthalene	B080591-BLK1	ND	ug/L	2.0	0.30	
Naphthalene	B080591-BLK1	ND	ug/L	1.0	0.068	
2-Naphthylamine	B080591-BLK1	ND	ug/L	20	1.7	
2-Nitroaniline	B080591-BLK1	ND	ug/L	2.0	0.36	
3-Nitroaniline	B080591-BLK1	ND	ug/L	2.0	0.52	
4-Nitroaniline	B080591-BLK1	ND	ug/L	5.0	0.85	
Nitrobenzene	B080591-BLK1	ND	ug/L	1.0	0.39	
N-Nitrosodimethylamine	B080591-BLK1	ND	ug/L	2.0	0.56	
N-Nitrosodi-N-propylamine	B080591-BLK1	ND	ug/L	2.0	0.56	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080591						
N-Nitrosodiphenylamine	B080591-BLK1	ND	ug/L	1.0	0.27	
Phenanthrene	B080591-BLK1	ND	ug/L	2.0	0.20	
Pyrene	B080591-BLK1	ND	ug/L	2.0	0.31	
1,2,4-Trichlorobenzene	B080591-BLK1	ND	ug/L	1.0	0.076	
4-Chloro-3-methylphenol	B080591-BLK1	ND	ug/L	1.0	0.42	
2-Chlorophenol	B080591-BLK1	ND	ug/L	2.0	0.85	
2,4-Dichlorophenol	B080591-BLK1	ND	ug/L	1.0	0.26	
2,4-Dimethylphenol	B080591-BLK1	ND	ug/L	1.0	0.30	
4,6-Dinitro-2-methylphenol	B080591-BLK1	ND	ug/L	5.0	0.43	
2,4-Dinitrophenol	B080591-BLK1	ND	ug/L	5.0	0.37	
2-Methylphenol	B080591-BLK1	ND	ug/L	2.0	0.55	
3- & 4-Methylphenol	B080591-BLK1	ND	ug/L	2.0	0.72	
Total Methylphenol	B080591-BLK1	ND	ug/L	4.0	1.3	
2-Nitrophenol	B080591-BLK1	ND	ug/L	2.0	0.39	
4-Nitrophenol	B080591-BLK1	ND	ug/L	2.0	0.66	
Pentachlorophenol	B080591-BLK1	ND	ug/L	1.0	0.43	
Phenol	B080591-BLK1	ND	ug/L	1.0	0.84	
2,4,5-Trichlorophenol	B080591-BLK1	ND	ug/L	5.0	0.36	
2,4,6-Trichlorophenol	B080591-BLK1	ND	ug/L	5.0	0.34	
2-Fluorophenol (Surrogate)	**B080591-BLK1**	**59.1**	%	**36 - 98 (LCL - UCL)**		
Phenol-d5 (Surrogate)	**B080591-BLK1**	**39.6**	%	**10 - 89 (LCL - UCL)**		
Nitrobenzene-d5 (Surrogate)	**B080591-BLK1**	**91.4**	%	**59 - 122 (LCL - UCL)**		
2-Fluorobiphenyl (Surrogate)	**B080591-BLK1**	**88.1**	%	**44 - 138 (LCL - UCL)**		
2,4,6-Tribromophenol (Surrogate)	**B080591-BLK1**	**140**	%	**51 - 139 (LCL - UCL)**		**S09**
p-Terphenyl-d14 (Surrogate)	**B080591-BLK1**	**109**	%	**23 - 173 (LCL - UCL)**		

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B080591										
Acenaphthene	B080591-BS1	LCS	45.610	50.000	ug/L	91.2		44 - 180		
1,4-Dichlorobenzene	B080591-BS1	LCS	49.800	50.000	ug/L	99.6		56 - 130		
2,4-Dinitrotoluene	B080591-BS1	LCS	57.030	50.000	ug/L	114		62 - 151		
Hexachlorobenzene	B080591-BS1	LCS	55.670	50.000	ug/L	111		44 - 167		
Hexachlorobutadiene	B080591-BS1	LCS	42.170	50.000	ug/L	84.3		34 - 120		
Hexachloroethane	B080591-BS1	LCS	49.810	50.000	ug/L	99.6		47 - 129		
Nitrobenzene	B080591-BS1	LCS	57.610	50.000	ug/L	115		62 - 148		
N-Nitrosodi-N-propylamine	B080591-BS1	LCS	49.220	50.000	ug/L	98.4		51 - 145		
Pyrene	B080591-BS1	LCS	55.780	50.000	ug/L	112		10 - 202		
1,2,4-Trichlorobenzene	B080591-BS1	LCS	50.560	50.000	ug/L	101		54 - 132		
4-Chloro-3-methylphenol	B080591-BS1	LCS	48.470	50.000	ug/L	96.9		10 - 207		
2-Chlorophenol	B080591-BS1	LCS	44.810	50.000	ug/L	89.6		61 - 132		
2-Methylphenol	B080591-BS1	LCS	44.350	50.000	ug/L	88.7		55 - 138		
3- & 4-Methylphenol	B080591-BS1	LCS	76.780	100.00	ug/L	76.8		10 - 262		
Total Methylphenol	B080591-BS1	LCS	ND		ug/L			0 - 200		
4-Nitrophenol	B080591-BS1	LCS	18.070	50.000	ug/L	36.1		16 - 103		
Pentachlorophenol	B080591-BS1	LCS	44.790	50.000	ug/L	89.6		17 - 193		
Phenol	B080591-BS1	LCS	21.790	50.000	ug/L	43.6		10 - 84		
2,4,6-Trichlorophenol	B080591-BS1	LCS	50.610	50.000	ug/L	101		55 - 154		
2-Fluorophenol (Surrogate)	B080591-BS1	LCS	24.850	40.000	ug/L	62.1		36 - 98		
Phenol-d5 (Surrogate)	B080591-BS1	LCS	17.230	40.000	ug/L	43.1		10 - 89		
Nitrobenzene-d5 (Surrogate)	B080591-BS1	LCS	39.210	40.000	ug/L	98.0		59 - 122		
2-Fluorobiphenyl (Surrogate)	B080591-BS1	LCS	37.490	40.000	ug/L	93.7		44 - 138		
2,4,6-Tribromophenol (Surrogate)	B080591-BS1	LCS	60.320	40.000	ug/L	151		51 - 139		S09
p-Terphenyl-d14 (Surrogate)	B080591-BS1	LCS	23.240	20.000	ug/L	116		23 - 173		

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B080591	Used client sample: N										
Acenaphthene	MS	1310670-17	ND	38.897	50.000	ug/L		77.8		41 - 196	
	MSD	1310670-17	ND	42.256	50.000	ug/L	8.3	84.5	23	41 - 196	
1,4-Dichlorobenzene	MS	1310670-17	ND	39.188	50.000	ug/L		78.4		57 - 126	
	MSD	1310670-17	ND	45.116	50.000	ug/L	14.1	90.2	28	57 - 126	
2,4-Dinitrotoluene	MS	1310670-17	ND	51.565	50.000	ug/L		103		53 - 162	
	MSD	1310670-17	ND	53.219	50.000	ug/L	3.2	106	30	53 - 162	
Hexachlorobenzene	MS	1310670-17	ND	49.208	50.000	ug/L		98.4		49 - 161	
	MSD	1310670-17	ND	52.164	50.000	ug/L	5.8	104	26	49 - 161	
Hexachlorobutadiene	MS	1310670-17	ND	31.632	50.000	ug/L		63.3		38 - 113	
	MSD	1310670-17	ND	38.437	50.000	ug/L	19.4	76.9	30	38 - 113	
Hexachloroethane	MS	1310670-17	ND	37.161	50.000	ug/L		74.3		52 - 121	
	MSD	1310670-17	ND	44.840	50.000	ug/L	18.7	89.7	29	52 - 121	
Nitrobenzene	MS	1310670-17	ND	50.925	50.000	ug/L		102		61 - 146	
	MSD	1310670-17	ND	55.242	50.000	ug/L	8.1	110	29	61 - 146	
N-Nitrosodi-N-propylamine	MS	1310670-17	ND	42.690	50.000	ug/L		85.4		10 - 172	
	MSD	1310670-17	ND	46.854	50.000	ug/L	9.3	93.7	30	10 - 172	
Pyrene	MS	1310670-17	ND	51.100	50.000	ug/L		102		25 - 196	
	MSD	1310670-17	ND	54.084	50.000	ug/L	5.7	108	29	25 - 196	
1,2,4-Trichlorobenzene	MS	1310670-17	ND	40.973	50.000	ug/L		81.9		55 - 128	
	MSD	1310670-17	ND	47.975	50.000	ug/L	15.7	96.0	30	55 - 128	
4-Chloro-3-methylphenol	MS	1310670-17	ND	43.378	50.000	ug/L		86.8		10 - 211	
	MSD	1310670-17	ND	46.578	50.000	ug/L	7.1	93.2	25	10 - 211	
2-Chlorophenol	MS	1310670-17	ND	38.431	50.000	ug/L		76.9		54 - 136	
	MSD	1310670-17	ND	41.667	50.000	ug/L	8.1	83.3	28	54 - 136	
2-Methylphenol	MS	1310670-17	ND	38.237	50.000	ug/L		76.5		27 - 153	
	MSD	1310670-17	ND	41.211	50.000	ug/L	7.5	82.4	28	27 - 153	
3- & 4-Methylphenol	MS	1310670-17	ND	66.610	100.00	ug/L		66.6		40 - 216	
	MSD	1310670-17	ND	71.944	100.00	ug/L	7.7	71.9	28	40 - 216	
Total Methylphenol	MS	1310670-17	ND	ND		ug/L				0 - 200	
	MSD	1310670-17	ND	ND		ug/L			200	0 - 200	
4-Nitrophenol	MS	1310670-17	ND	17.130	50.000	ug/L		34.3		14 - 100	
	MSD	1310670-17	ND	17.651	50.000	ug/L	3.0	35.3	30	14 - 100	
Pentachlorophenol	MS	1310670-17	ND	39.692	50.000	ug/L		79.4		23 - 184	
	MSD	1310670-17	ND	40.717	50.000	ug/L	2.5	81.4	27	23 - 184	
Phenol	MS	1310670-17	ND	18.711	50.000	ug/L		37.4		10 - 80	
	MSD	1310670-17	ND	20.748	50.000	ug/L	10.3	41.5	28	10 - 80	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B080591	Used client sample: N										
2,4,6-Trichlorophenol	MS	1310670-17	ND	44.494	50.000	ug/L		89.0		37 - 180	
	MSD	1310670-17	ND	47.224	50.000	ug/L	6.0	94.4	30	37 - 180	
2-Fluorophenol (Surrogate)	MS	1310670-17	ND	21.563	40.000	ug/L		53.9		36 - 98	
	MSD	1310670-17	ND	23.266	40.000	ug/L	7.6	58.2		36 - 98	
Phenol-d5 (Surrogate)	MS	1310670-17	ND	14.986	40.000	ug/L		37.5		10 - 89	
	MSD	1310670-17	ND	16.150	40.000	ug/L	7.5	40.4		10 - 89	
Nitrobenzene-d5 (Surrogate)	MS	1310670-17	ND	34.396	40.000	ug/L		86.0		59 - 122	
	MSD	1310670-17	ND	35.920	40.000	ug/L	4.3	89.8		59 - 122	
2-Fluorobiphenyl (Surrogate)	MS	1310670-17	ND	32.495	40.000	ug/L		81.2		44 - 138	
	MSD	1310670-17	ND	34.067	40.000	ug/L	4.7	85.2		44 - 138	
2,4,6-Tribromophenol (Surrogate)	MS	1310670-17	ND	54.844	40.000	ug/L		137		51 - 139	
	MSD	1310670-17	ND	55.622	40.000	ug/L	1.4	139		51 - 139	
p-Terphenyl-d14 (Surrogate)	MS	1310670-17	ND	21.456	20.000	ug/L		107		23 - 173	
	MSD	1310670-17	ND	22.268	20.000	ug/L	3.7	111		23 - 173	

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

Reported: 06/23/2020 14:08
Project: Cerritos
Project Number: N040965: SFPP Norwalk
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
QC Batch ID: B080352						
Total Cyanide	B080352-BLK1	ND	mg/L	0.0050	0.0017	
QC Batch ID: B080362						
Total Sulfide	B080362-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: B080386						
Ammonia as N (Distilled)	B080386-BLK1	ND	mg/L	0.20	0.067	

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

Reported: 06/23/2020 14:08
Project: Cerritos
Project Number: N040965: SFPP Norwalk
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B080352										
Total Cyanide	B080352-BS1	LCS	0.14181	0.15000	mg/L	94.5		90 - 110		
QC Batch ID: B080362										
Total Sulfide	B080362-BS1	LCS	0.47419	0.50000	mg/L	94.8		90 - 110		
QC Batch ID: B080386										
Ammonia as N (Distilled)	B080386-BS1	LCS	1.8571	2.0000	mg/L	92.9		85 - 115		

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

Reported: 06/23/2020 14:08
Project: Cerritos
Project Number: N040965: SFPP Norwalk
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 RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B080352	Used client sample: N										
Total Cyanide	DUP	2017199-01	0.050970	0.050370		mg/L	1.2		10		
	MS	2017199-01	0.050970	0.15752	0.10000	mg/L		107		90 - 110	
	MSD	2017199-01	0.050970	0.15786	0.10000	mg/L	0.2	107	10	90 - 110	
QC Batch ID: B080362	Used client sample: Y - Description: EFF-06-11-20, 06/11/2020 13:15										
Total Sulfide	DUP	2017340-01	ND	ND		mg/L			10		
	MS	2017340-01	ND	0.48174	0.50000	mg/L		96.3		80 - 120	
	MSD	2017340-01	ND	0.49307	0.50000	mg/L	2.3	98.6	10	80 - 120	
QC Batch ID: B080386	Used client sample: N										
Ammonia as N (Distilled)	DUP	2016737-01	0.61179	0.58017		mg/L	5.3		20		
	MS	2016737-01	0.61179	2.8448	2.3166	mg/L		96.4		80 - 120	
	MSD	2016737-01	0.61179	2.9708	2.3166	mg/L	4.3	102	20	80 - 120	

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11110 Artesia Blvd., Suite B
Cerritos, CA 90703

Reported: 06/23/2020 14:08
Project: Cerritos
Project Number: N040965: SFPP Norwalk
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
A10	Detection and quantitation limits were raised due to matrix interference.
L01	The Laboratory Control Sample Water (LCSW) recovery is not within laboratory established control limits.
S09	The surrogate recovery for this compound was not within the control limits.

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ANALYTICAL REPORT

Eurofins Calscience Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-267404-1
Client Project/Site: SFPP Norwalk

For:
Asset Laboratories
11110 Artesia Blvd
Ste. B
Cerritos, California 90703

Attn: Emil A Rodriguez

Authorized for release by:
6/16/2020 4:04:06 PM

Janice Hsu, Project Manager I
(949)260-3263
janice.hsu@testamericainc.com

Table of Contents

Sample Summary

Client: Asset Laboratories
Project/Site: SFPP Norwalk

Job ID: 440-267404-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-267404-1	EFF-06-11-20	Water	06/11/20 13:15	06/12/20 18:28	
440-267404-2	RSW-001-06-11-20	Water	06/11/20 14:20	06/12/20 18:28	
440-267404-3	RSW-002-06-11-20	Water	06/11/20 14:30	06/12/20 18:28	

Case Narrative

Client: Asset Laboratories
Project/Site: SFPP Norwalk

Job ID: 440-267404-1

Job ID: 440-267404-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-267404-1

Comments
No additional comments.

Receipt
The samples were received on 6/12/2020 6:28 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.1° C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-612653 recovered above the upper control limit for Acrolein. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-612653 recovered outside control limits for the following analyte: Acrolein. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: EFF-06-11-20

Lab Sample ID: 440-267404-1

Date Collected: 06/11/20 13:15

Matrix: Water

Date Received: 06/12/20 18:28

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	2.5	ug/L			06/15/20 08:50	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/15/20 08:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 128*		*06/15/20 08:50*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/15/20 08:50*	*1*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*06/15/20 08:50*	*1*

Client Sample ID: RSW-001-06-11-20

Lab Sample ID: 440-267404-2

Date Collected: 06/11/20 14:20

Matrix: Water

Date Received: 06/12/20 18:28

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	2.5	ug/L			06/15/20 09:17	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/15/20 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*80 - 128*		*06/15/20 09:17*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/15/20 09:17*	*1*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*06/15/20 09:17*	*1*

Client Sample ID: RSW-002-06-11-20

Lab Sample ID: 440-267404-3

Date Collected: 06/11/20 14:30

Matrix: Water

Date Received: 06/12/20 18:28

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	2.5	ug/L			06/15/20 09:43	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/15/20 09:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/15/20 09:43*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/15/20 09:43*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*06/15/20 09:43*	*1*

Method Summary

Client: Asset Laboratories
Project/Site: SFPP Norwalk

Job ID: 440-267404-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Asset Laboratories
Project/Site: SFPP Norwalk

Job ID: 440-267404-1

Client Sample ID: EFF-06-11-20
Date Collected: 06/11/20 13:15
Date Received: 06/12/20 18:28

Lab Sample ID: 440-267404-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	612653	06/15/20 08:50	TCN	TAL IRV

Client Sample ID: RSW-001-06-11-20
Date Collected: 06/11/20 14:20
Date Received: 06/12/20 18:28

Lab Sample ID: 440-267404-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	612653	06/15/20 09:17	TCN	TAL IRV

Client Sample ID: RSW-002-06-11-20
Date Collected: 06/11/20 14:30
Date Received: 06/12/20 18:28

Lab Sample ID: 440-267404-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	612653	06/15/20 09:43	TCN	TAL IRV

Laboratory References:

TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-612653/4
Matrix: Water
Analysis Batch: 612653

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	2.5	ug/L			06/15/20 08:22	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/15/20 08:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/15/20 08:22*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/15/20 08:22*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*06/15/20 08:22*	*1*

Lab Sample ID: LCS 440-612653/1002
Matrix: Water
Analysis Batch: 612653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	25.0	24.1		ug/L		97	37 - 150
Acetonitrile	250	227		ug/L		91	49 - 142
Acrolein	24.7	41.9	*	ug/L		170	10 - 145
Acrylonitrile	250	251		ug/L		100	48 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 128*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*76 - 132*

Lab Sample ID: 440-267280-B-1 MS
Matrix: Water
Analysis Batch: 612653

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	ND		10.0	9.55		ug/L		96	10 - 140
Acetonitrile	ND		100	88.3		ug/L		88	37 - 140
Acrolein	ND	F1 *	9.88	14.4		ug/L		145	10 - 147
Acrylonitrile	ND		100	98.7		ug/L		99	38 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 128*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*76 - 132*

Lab Sample ID: 440-267280-B-1 MSD
Matrix: Water
Analysis Batch: 612653

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloroethyl vinyl ether	ND		10.0	9.96		ug/L		100	10 - 140	4	35
Acetonitrile	ND		100	87.7		ug/L		88	37 - 140	1	40
Acrolein	ND	F1 *	9.88	15.2	F1	ug/L		154	10 - 147	6	40
Acrylonitrile	ND		100	103		ug/L		103	38 - 144	4	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-267280-B-1 MSD
Matrix: Water
Analysis Batch: 612653

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	*103*		*80 - 128*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*76 - 132*

QC Association Summary

Client: Asset Laboratories
Project/Site: SFPP Norwalk

Job ID: 440-267404-1

GC/MS VOA

Analysis Batch: 612653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267404-1	EFF-06-11-20	Total/NA	Water	8260B	
440-267404-2	RSW-001-06-11-20	Total/NA	Water	8260B	
440-267404-3	RSW-002-06-11-20	Total/NA	Water	8260B	
MB 440-612653/4	Method Blank	Total/NA	Water	8260B	
LCS 440-612653/1002	Lab Control Sample	Total/NA	Water	8260B	
440-267280-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-267280-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Definitions/Glossary

Client: Asset Laboratories
Project/Site: SFPP Norwalk

Job ID: 440-267404-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Asset Laboratories
Project/Site: SFPP Norwalk

Job ID: 440-267404-1

Laboratory: Eurofins Calscience Irvine

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2706	06-30-20

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Contact us:
Nevada 3151 W Post Road, Las Vegas, NV 89118
P 702 307.2659 F: 702.307.2691
California 11110 Artesia Blvd , Ste B, Cerritos, CA 90703
P 562 219.7435 F 562 219 7436
www.assetlaboratories.com

Client: ASSET Laboratories	**Report to:** Emil Angelo Rodriguez	**Bill to.** Elvira Allegaert/Accounts Payable	**EDD Requirement**
Address: 11110 Artesia Blvd Ste B	**Company:** ASSET Laboratories	**Address:** 11110 Artesia Blvd Ste B	Excel EDD ☐
Address: Cerritos, CA 90703	**Email:** emilangelo@assetlaboratories.com	Cerritos, CA 90703	Geotracker ☐
Phone: 562.219.7435 **Fax:** 562.219.7436	**Address:** 11110 Artesia Blvd Ste B	**Email to** elvira@assetlaboratories.com **PO#** N40965E	Labspec ☐
Submitted By: Emil Angelo Rodriguez	Cerritos, CA 90703	**Phone:** 562.219.7435 **Fax:** 562.218.7436	Others ☐
Title: Project Manager	**Phone:** 562.881.0611 **Fax:** 562.219.7436	**Matrix**	Specify
Signature: **Date**	**Sampled by:** SIGNED	Ground ☑ Sediment ☐	Global ID
I hereby authorize ASSET Labs to perform the tests indicated below	*I attest to the validity and authenticity of this sample I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action*	Potable ☐ Soil ☐	
Project Name: SFPP Norwalk		NPDES ☐ Other Solid ☐	
Project Number:	*Signature:* *Date:*	Surface ☐	

QA/QC		Sample Receipt Condition	Y	N
RTNE	☐			
RWQCB	☐	1 Chilled	☐	☐
CalTrans	☐	2 Headspace	☐	☐
Level III	☐	3 Container Intact	☐	☐
LEVEL IV	☐	4 Seal Present	☐	☐
Regulatory	☐	5 IR number		
Specify State		6 Method of Cooling		
		Sample Temp		

Analyses Requested

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	Acrolein, Acrylonitrile (SW8260)	L 13 6/12/20	Turn Around Time (TAT)	No. of Containers	Container Type	Preservation	Courier / Tracking No / Remarks
1		EFF-06-11-20	6/11/2020	1315	X			X		E				EDD Requirement CH2MHILL Labspec7 edata. Please report "J" flagged down to MDL format.
2		RSW-001-06-11-20	6/11/2020	1420	X			X		E				
3		RSW-002-06-11-20	6/11/2020	1430	X			X		E				
4										E				
5										E				Limited Sample: 1 VOA unpreserved each
6										E				
7										E				Acrolein (RL-5)
8										E				Acrylonitrile (RL-2)
9										E				
10										E				
11										E				

440-267404 Chain of Custody

Relinquished by (Signature and Printed Name): EMIL R	**Date / Time** 6/12/20 1800	**Received by (Signature and Printed Name):**	**Date / Time** 6/12/20 1800
Relinquished by (Signature and Printed Name):	**Date / Time** 6/12/20 1808	**Received by (Signature and Printed Name):**	**Date / Time**
Relinquished by (Signature and Printed Name):	**Date / Time**	**Received by (Signature and Printed Name):** EC-iRv	**Date / Time** 6/12/20 1828

Turn Around Time (TAT)

- ☐ A = <24Hrs or Same Day
- ☑ B = Next Workday
- ☐ C = 2 Workdays
- ☐ D = 3 Workdays
- ☐ E = Routine 5-7 Workdays

TAT starts at 8 AM the following day if samples are received after 3:00 PM

Special Instructions:
include reports@assetlaboratories.com, tmalit@assetlaboratories.com, sonny.lorenzo@assetlaboratories.com, lucille.golosinda@assetlaboratories.com when reporting

Results Needed 6/15/20

Terms

1 All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report
2 Regular TAT is 5-7 business days, surcharges will apply for rush analysis
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
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 5.1/5.1 1289

Preservatives:				Container Type:		
H. HCl	N. HNO_3	S. H_2SO_4	C: <= 6°C	T = Tube	V = VOA	P = Pint
Z. $Zn(AC)_2$	O: NaOH	T $Na_2S_2O_3$		J = Jar	B = Tedlar	G = Glass
Others/Specify				M = Metal	P = Plastic	C = Can

Page 13 of 14

6/10/2020

Login Sample Receipt Checklist

Client: Asset Laboratories

Job Number: 440-267404-1

Login Number: 267404
List Number: 1
Creator: Bonta, Lucia F

List Source: Eurofins Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

LA Testing

520 Mission Street South Pasadena, CA 91030
Phone/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order ID: 322010575
Customer ID: ASLB42
Customer PO:
Project ID:

Attn: Elvira Allegaert
Asset Laboratories
11060 Artesia Blvd
Suite B
Cerritos, CA 90703
Proj: SFPP Norwalk

Phone: (562) 219-7435
Fax:
Received: 06/12/2020
Analyzed: 06/17/2020

Test Report: Determination of Asbestos Structures ≥ 0.5 µm & > 10µm in Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS					
						Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
								MFL (million fibers per liter)		
EFF-06-11-20 322010575-0001	6/12/2020 02:55 PM	100	1288	0.0640	≥ 0.5 µm	None Detected	ND	0.20	<0.20	0.00 - 0.74
					> 10 µm only	None Detected	ND	0.20	<0.20	0.00 - 0.74
Collection Date/Time:	*06/11/2020 13:15 PM*									
RSW-001-06-11-20 322010575-0002	6/12/2020 02:55 PM	5	1288	0.2560	≥ 0.5 µm	Chrysotile	1	1.00	1.00	0.03 - 5.60
					> 10 µm only	Chrysotile	1	1.00	1.00	0.03 - 5.60
Collection Date/Time:	*06/11/2020 14:20 PM*									
RSW-002-06-11-20 322010575-0003	6/12/2020 02:55 PM	5	1288	0.2560	≥ 0.5 µm	Chrysotile	1	1.00	1.00	0.03 - 5.60
					> 10 µm only	None Detected	ND	1.00	<1.00	0.00 - 3.70
Collection Date/Time:	*06/11/2020 14:30 PM*									

Analyst(s)
Kyeong Corbin (3)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

Any questions please contact Jerry Drapala.

Initial report from: 06/18/2020 11:59:23

Samples analyzed by LA Testing South Pasadena, CA CA ELAP 2283

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

www.pacelabs.com

Report Prepared for:

Emil Rodriguez
Asset Laboratories
11110 Artesia Blvd Ste B
Cerritos CA 90703

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10521531
Sample Receipt Date: 06/15/2020
Client Project #: SFPP Norwalk
Client Sub PO #: N40965C
State Cert #: 2929

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Joanne Richardson, your Pace Project Manager.

This report has been reviewed by:

Joanne Richardson

June 25, 2020

Joanne Richardson,
(612) 607-6453
(612) 607-6444 (fax)

Report Prepared Date:
June 25, 2020

Report of Laboratory Analysis

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on three samples submitted by a representative of Asset Laboratories. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The estimated detection limits (EDLs) were based on signal-to-noise measurements. Estimated maximum possible concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 39-125%. Except for one low value, which was flagged "R" on the results table, the labeled internal standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

Values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to contain trace levels of selected congeners. These levels were below the calibration range of the method. The concentrations reported for the affected congeners in the field samples were higher than the corresponding blank levels by one or more orders of magnitude. These results indicate that the sample processing steps did not contribute significantly to the levels reported for the field samples.

Laboratory spike samples were also prepared using clean reference matrix that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 91-120% with relative percent differences of 0.0-12.9%. These results were within the target ranges for the method. Matrix spikes were not prepared with the sample batch.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota - De	via MN-ELAP
Alabama	40770	Minnesota - Pet	1240
Alaska - DW	MN00064	Mississippi	MN00064
Alaska - UST	17-009	Missouri - DW	10100
Arizona	AZ0014	Montana	CERT0092
Arkansas - DW	MN00064	Nebraska	NE-OS-18-06
Arkansas - WW	19-039-0 (88-06	Nevada	MN000642020-
CNMI Saipan	MP0003	New Hampshire	208120-B (2081
California	2929	New Jersey (NE	NLC 190003 (M
Colorado	MN00064	New York	11647
Connecticut	PH-0256	North Carolina -	27700
EPA Region 8+	via MN 027-053	North Carolina -	530
Florida (NELAP	E87605	North Dakota	R-036
Georgia	959	Ohio - DW	41244
Guam	20-001R	Ohio - VAP	CL101
Hawaii	MN00064	Oklahoma	2019-041 (9507
Idaho	MN00064	Oregon - Primar	MN300001-012
Illinois	004575 (20001	Oregon - Secon	MN200001-013
Indiana	C-MN-01	Pennsylvania	018 (68-00563)
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003001 (740
Kentucky - DW	90062	Tennessee	TN02818
Kentucky - WW	90062	Texas	T104704192
Louisiana - DE	03086 (84596)	Utah (NELAP)	MN000642019-
Louisiana - DH	LA006	Vermont	VT-027053137
Louisiana - DW	MN00064	Virginia	10570 (460163)
Maine	2019018 (238)(	Washington	C486-20 (C486)
Maryland	322	West Virginia -	382
Massachusetts	M-MN064	West Virginia -	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	1857409	Wyoming - UST	2926.01

REPORT OF LABORATORY ANALYSIS

Report No.....10521531

Appendix A

Sample Management

SUBCOC to PACE

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL

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

CHAIN OF CUSTODY RECORD

Client: ASSET Laboratories	Report to: Emil Angelo Rodriguez	Bill to: Elvira Allegaert/Accounts Payable	
Address: 11110 Artesia Blvd Ste B	Company: ASSET Laboratories	Address: 11110 Artesia Blvd Ste B	
Address: Cerritos, CA 90703	Email: emilangelo@assetlaboratories.com	Cerritos, CA 90703	
Phone: 562.219.7435 / Fax: 562.219.7436	Address: 11110 Artesia Blvd Ste B	Email to: elvira@assetlaboratories.com	PO#: N40965C
Submitted By: Emil Angelo Rodriguez	Cerritos, CA 90703	Phone: 562.219.7435	Fax: 562.218.7436
Title: Project Manager	Phone: 562.881.0611 / Fax: 562.219.7436		
Signature: / Date:	Sampled by: SIGNED		
I hereby authorize ASSET Labs to perform the tests indicated below:	*I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*		
Project Name: SFPP Norwalk	Signature: / Date:		
Project Number:			

EDD Requirement: Excel EDD ☑; Geotracker ☐; Labspec ☐; Others ☐; Specify: ; Global ID:

QA/QC: RTNE ☐; RWQCB ☐; CalTrans ☐; Level III ☐; LEVEL IV ☐; Regulatory ☐; Specify State:

Sample Receipt Condition (Y / N): 1. Chilled ☐ ☐; 2. Headspace ☐ ☐; 3. Container Intact ☐ ☐; 4. Seal Present ☐ ☐; 5. IR number; 6. Method of Cooling; Sample Temp:

Matrix: Waste ☑; Sediment ☐; Potable ☐; Soil ☐; NPDES ☐; Other Soild ☐; Surface ☐

Courier:
Tracking No.:

Analyses Requested

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	2, 3, 7, 8-TCDD and TCDD Equivalents (SW8290)	Turn Around Time (TAT)	No. of Containers	Container Type	Preservation	Remarks
1		EFF-06-11-20	6/11/2020	1315	X			X	E				EDD Requirement CH2MHILL Labspec7 edata. Please report "J" flagged down to MDL format. 001
2		RSW-001-06-11-20	6/11/2020	1420	X			X	E				002
3		RSW-002-06-11-20	6/11/2020	1430	X			X	E				003
4													
5													
6													
7													
8													
9													
10													

WO#: 10521531
10521531

Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time
[signature] EMIL R	6/12/20 1613	RHL/Pace	6/15/20 850

Turn Around Time (TAT)
☐ A = <24Hrs or Same Day
☐ B = Next Workday
☐ C = 2 Workdays
☐ D = 3 Workdays
☑ E = Routine 5-7 Workdays
TAT starts at 8 AM the following day if samples are received after 3:00 PM

Special Instructions:
include reports@assetlaboratories.com, tmalit@assetlaboratories.com, sonny.lorenzo@assetlaboratories.com, lucille.golosinda@assetlaboratories.com when reporting

T=13.5

Terms
1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
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
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 Laboratrories if hard copy of report is needed.
9. For subcontract analysis. TAT and Surcharges will vary.

Preservatives:

H: HCl	N: HNO_3	S: H_2SO_4	C: <= 6ºC
Z: $Zn(AC)_2$	O: NaOH	T: $Na_2S_2O_3$	
Others/Specify:			

Container Type:

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

White = Laboratory Copy   Yellow = Customer's Copy

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 27Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.00**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Asset Laboratories

Project #: **WO#: 10521531**

PM: JMR Due Date: 06/29/20

CLIENT: Asset Labs

Courier: ☒Fed Ex ☐UPS ☐USPS ☐Client ☐Pace ☐SpeeDee ☐Commercial See Exceptions ☐

Tracking Number: 7706 9462 7568

Custody Seal on Cooler/Box Present? ☐Yes ☑No **Seals Intact?** ☐Yes ☑No **Biological Tissue Frozen?** ☐Yes ☐No ☑N/A

Packing Material: ☐Bubble Wrap ☑Bubble Bags ☐None ☐Other:_____ **Temp Blank?** ☐Yes ☑No

Thermometer: ☑T1(0461) ☐T2(1336) ☐T3(0459) ☐T4(0254) ☐T5(0489) **Type of Ice:** ☐Wet ☐Blue ☐None ☐Dry ☑Melted

Did Samples Originate in West Virginia? ☐Yes ☑No **Were All Container Temps Taken?** ☐Yes ☐No ☑N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:**_____ °C

Average Corrected Temp (no temp blank only): ☒See Exceptions 13.5 °C ☐1 Container

Correction Factor: -0.1 **Cooler Temp Corrected w/temp blank:**_____ °C

USDA Regulated Soil: (☐ N/A, water sample/Other:_____) **Date/Initials of Person Examining Contents:** RHL 6/15/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☐No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☑Yes	☐No		1.
Chain of Custody Relinquished?	☑Yes	☐No		2.
Sampler Name and/or Signature on COC?	☐Yes	☐No	☑N/A	3.
Samples Arrived within Hold Time?	☑Yes	☐No		4.
Short Hold Time Analysis (<72 hr)?	☐Yes	☑No		5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other_____
Rush Turn Around Time Requested?	☐Yes	☑No		6.
Sufficient Volume?	☑Yes	☐No		7.
Correct Containers Used? -Pace Containers Used?	☑Yes ☑Yes	☐No ☐No		8.
Containers Intact?	☑Yes	☐No		9.
Field Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☑N/A	10. Is sediment visible in the dissolved container? ☐Yes ☐No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☑Water ☐Soil ☐Oil ☐Other_____	☑Yes	☐No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐
All containers needing acid/base preservation have been checked?	☐Yes	☐No	☑N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐Yes	☐No	☑N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐Yes	☐No	☑N/A	Positive for Res. Chlorine? ☐Yes ☐No **pH Paper Lot#** **See Exception** ☐
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐Yes	☐No	☑N/A	13. **See Exception** ☐
Headspace in VOA Vials (greater than 6mm)?	☐Yes	☐No	☑N/A	
Trip Blank Present?	☐Yes	☐No	☑N/A	14.
Trip Blank Custody Seals Present?	☐Yes	☐No	☑N/A	Pace Trip Blank Lot # (if purchased):_____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted:_____ Date/Time:_____

Comments/Resolution:_____

Project Manager Review: Joanne Richardson **Date:** 6-15-20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

SCUR Exceptions:

Workorder #: 10521531

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank

Read Temp	Corrected Temp	Average Temp
12.8	12.7	13.5
14.2	14.1	
15.2	15.1	
12.0	11.9	

Tracking Number/Temperature	

Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Comments:

Report No.....10521531_8260EC_DER

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL

SUBCOC to PACE

CHAIN OF CUSTODY RECORD

Page 1 of

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

Client:	ASSET Laboratories
Address:	11110 Artesia Blvd Ste B
Address:	Cerritos, CA 90703
Phone:	562.219.7435
Fax:	562.219.7436
Submitted By:	Emil Angelo Rodriguez
Title:	Project Manager
Signature:	
Date:	
I hereby authorize ASSET Labs to perform the tests indicated below:	
Project Name:	SFPP Norwalk
Project Number:	

Report to:	Emil Angelo Rodriguez
Company:	ASSET Laboratories
Email:	emilangelo@assetlaboratories.com
Address:	11110 Artesia Blvd Ste B Cerritos, CA 90703
Phone:	562.881.0611
Fax:	562.219.7436
Sampled by:	SIGNED
Signature:	
Date:	

I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Bill to:	Elvira Allegaert/Accounts Payable
Address:	11110 Artesia Blvd Ste B Cerritos, CA 90703
Email to:	elvira@assetlaboratories.com
PO#	N40965C
Phone:	562.219.7435
Fax:	562.218.7436

EDD Requirement	
Excel EDD	☑
Geotracker	☐
Labspec	☐
Others	☐
Specify:	
Global ID:	

QA/QC	
RTNE	☐
RWQCB	☐
CalTrans	☐
Level III	☐
LEVEL IV	☐
Regulatory	☐
Specify State:	

Sample Receipt Condition	Y	N
1. Chilled	☐	☐
2. Headspace	☐	☐
3. Container Intact	☐	☐
4. Seal Present	☐	☐
5. IR number		
6. Method of Cooling		
Sample Temp:		

Matrix: Waste ☑ Sediment ☐ Potable ☐ Soil ☐ NPDES ☐ Other Solid ☐ Surface ☐

Courier:

Tracking No.

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	2, 3, 7, 8-TCDD and TCDD Equivalents (SW8290)	Turn Around Time (TAT)	No. of Containers	Container Type	Preservation	Remarks
1		EFF-06-11-20	6/11/2020	1315	X			X	E	2			EDD Requirement CH2MHILL Labspec7 edata. Please report "J" flagged down to MDL format.
2		RSW-001-06-11-20	6/11/2020	1420	X			X	E	2			
3		RSW-002-06-11-20	6/11/2020	1430	X			X	E	2			
4													
5													
6													
7													
8													
9													
10													

WO#:10521531

10521531

Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time
EMIL R.	6/15/20 1800	Pace T=5.1°C	6/16/20 850

Turn Around Time (TAT)
- ☐ A = <24Hrs or Same Day
- ☐ B = Next Workday
- ☐ C = 2 Workdays
- ☐ D = 3 Workdays
- ☑ E = Routine 5-7 Workdays

TAT starts at 8 AM the following day if samples are received after 3:00 PM

Special Instructions: include reports@assetlaboratories.com, tmalit@assetlaboratories.com, sonny.lorenzo@assetlaboratories.com, lucille.golosinda@assetlaboratories.com when reporting

Terms
1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
   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
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 Laboratroies if hard copy of report is needed.
9. For subcontract analysis. TAT and Surcharges will vary.

Preservatives:			
H: HCl	N: HNO_3	S: H_2SO_4	C: <= 6ºC
Z: $Zn(AC)_2$	O: NaOH	T: $Na_2S_2O_3$	
Others/Specify:			

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

White = Laboratory Copy

Yellow = Customer's Copy

Pace Analytical®	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt

Client Name: ASSET LABORATORIES

Project #: **WO#: 10521531**

PM: JMR **Due Date: 06/29/20**

CLIENT: Asset Labs

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Pace [ ] SpeeDee [ ] Commercial **See Exceptions** [ ]

Tracking Number: 7707 1101 1720

Custody Seal on Cooler/Box Present? [ ] Yes [X] No **Seals Intact?** [ ] Yes [X] No **Biological Tissue Frozen?** [ ] Yes [ ] No [X] N/A

Packing Material: [ ] Bubble Wrap [X] Bubble Bags [ ] None [X] Other: PB **Temp Blank?** [ ] Yes [X] No

Thermometer: [ ] T1(0461) [X] T2(1336) [ ] T3(0459) [ ] T4(0254) [ ] T5(0489) **Type of Ice:** [X] Wet [X] Blue [ ] None [ ] Dry [ ] Melted

Did Samples Originate in West Virginia? [ ] Yes [X] No **Were All Container Temps Taken?** [ ] Yes [ ] No [X] N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** _____ °C **Average Corrected Temp (no temp blank only):** [X] See Exceptions 5.1 °C [ ] 1 Container

Correction Factor: +0.0 **Cooler Temp Corrected w/temp blank:** _____ °C

USDA Regulated Soil: ([X] N/A, water sample/Other: _____)
Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? [ ] Yes [ ] No

Date/Initials of Person Examining Contents: GN2 6/16/20
Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? [ ] Yes [ ] No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	[X] Yes	[ ] No		1.
Chain of Custody Relinquished?	[X] Yes	[ ] No		2.
Sampler Name and/or Signature on COC?	[ ] Yes	[X] No	[ ] N/A	3.
Samples Arrived within Hold Time?	[X] Yes	[ ] No		4.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No		5. [ ] Fecal Coliform [ ] HPC [ ] Total Coliform/E coli [ ] BOD/cBOD [ ] Hex Chrome [ ] Turbidity [ ] Nitrate [ ] Nitrite [ ] Orthophos [ ] Other_____
Rush Turn Around Time Requested?	[ ] Yes	[X] No		6.
Sufficient Volume?	[X] Yes	[ ] No		7.
Correct Containers Used?	[X] Yes	[ ] No		8.
-Pace Containers Used?	[ ] Yes	[X] No		
Containers Intact?	[X] Yes	[ ] No		9.
Field Filtered Volume Received for Dissolved Tests?	[ ] Yes	[ ] No	[X] N/A	10. Is sediment visible in the dissolved container? [ ] Yes [ ] No
Is sufficient information available to reconcile the samples to the COC?	[X] Yes	[ ] No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** [ ]
Matrix: [X] Water [ ] Soil [ ] Oil [ ] Other_____				
All containers needing acid/base preservation have been checked?	[ ] Yes	[ ] No	[X] N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	[ ] Yes	[ ] No	[X] N/A	[ ] NaOH [ ] HNO_3 [ ] H_2SO_4 [ ] Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	[ ] Yes	[ ] No	[X] N/A	Positive for Res. Chlorine? [ ] Yes [ ] No **pH Paper Lot#** **See Exception** [ ]
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	[ ] Yes	[ ] No	[X] N/A	13. **See Exception** [ ]
Headspace in VOA Vials (greater than 6mm)?	[ ] Yes	[ ] No	[X] N/A	
Trip Blank Present?	[ ] Yes	[ ] No	[X] N/A	14.
Trip Blank Custody Seals Present?	[ ] Yes	[ ] No	[X] N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kirsten Hoffberg **Date:** 6/16/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: GN2

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp
4.9		5.1
5.0	+0.2	
4.5		
5.8		

Tracking Number/Temperature	

Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Comments:

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interferencepresent

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDEInterference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = SeeDiscussion

REPORT OF LABORATORY ANALYSIS

Appendix B

Sample Analysis Summary

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	EFF-06-11-20		
Lab Sample ID	10521531001		
Filename	U200623B_03		
Injected By	SMT		
Total Amount Extracted	879 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/11/2020 13:15
ICAL ID	U200419	Received	06/15/2020 08:50
CCal Filename(s)	U200623A_21 & U200623B_06	Extracted	06/19/2020 12:00
Method Blank ID	BLANK-80325	Analyzed	06/24/2020 03:11

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.61		2,3,7,8-TCDF-13C	2.00	120
Total TCDF	ND	-----	0.61		2,3,7,8-TCDD-13C	2.00	109
					1,2,3,7,8-PeCDF-13C	2.00	119
2,3,7,8-TCDD	ND	-----	0.71		2,3,4,7,8-PeCDF-13C	2.00	117
Total TCDD	ND	-----	0.71		1,2,3,7,8-PeCDD-13C	2.00	114
					1,2,3,4,7,8-HxCDF-13C	2.00	107
1,2,3,7,8-PeCDF	ND	-----	0.47		1,2,3,6,7,8-HxCDF-13C	2.00	111
2,3,4,7,8-PeCDF	ND	-----	0.34		2,3,4,6,7,8-HxCDF-13C	2.00	118
Total PeCDF	ND	-----	0.34		1,2,3,7,8,9-HxCDF-13C	2.00	125
					1,2,3,4,7,8-HxCDD-13C	2.00	101
1,2,3,7,8-PeCDD	ND	-----	0.89		1,2,3,6,7,8-HxCDD-13C	2.00	96
Total PeCDD	ND	-----	0.89		1,2,3,4,6,7,8-HpCDF-13C	2.00	94
					1,2,3,4,7,8,9-HpCDF-13C	2.00	105
1,2,3,4,7,8-HxCDF	0.78	-----	0.70	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	113
1,2,3,6,7,8-HxCDF	ND	-----	0.79		OCDD-13C	4.00	105
2,3,4,6,7,8-HxCDF	ND	-----	0.55				
1,2,3,7,8,9-HxCDF	ND	-----	0.78		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.78	-----	0.55	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.79		2,3,7,8-TCDD-37Cl4	0.20	111
1,2,3,6,7,8-HxCDD	ND	-----	0.64				
1,2,3,7,8,9-HxCDD	ND	-----	0.49				
Total HxCDD	ND	-----	0.49				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.97		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.3		Equivalence: 0.11 pg/L		
Total HpCDF	ND	-----	0.97		(Lower-bound - Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	2.6	-----	1.3	J			
Total HpCDD	4.9	-----	1.3	J			
OCDF	ND	-----	2.5				
OCDD	-----	4.0	2.9	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	RSW-001-06-11-20		
Lab Sample ID	10521531002		
Filename	U200623B_04		
Injected By	SMT		
Total Amount Extracted	985 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/11/2020 14:20
ICAL ID	U200419	Received	06/15/2020 08:50
CCal Filename(s)	U200623A_21 & U200623B_06	Extracted	06/19/2020 12:00
Method Blank ID	BLANK-80325	Analyzed	06/24/2020 03:52

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	1.2		2,3,7,8-TCDF-13C	2.00	68	
Total TCDF	ND	-----	1.2		2,3,7,8-TCDD-13C	2.00	57	
					1,2,3,7,8-PeCDF-13C	2.00	53	
2,3,7,8-TCDD	ND	-----	1.1		2,3,4,7,8-PeCDF-13C	2.00	53	
Total TCDD	ND	-----	1.1		1,2,3,7,8-PeCDD-13C	2.00	51	
					1,2,3,4,7,8-HxCDF-13C	2.00	46	
1,2,3,7,8-PeCDF	ND	-----	2.2		1,2,3,6,7,8-HxCDF-13C	2.00	48	
2,3,4,7,8-PeCDF	ND	-----	0.56		2,3,4,6,7,8-HxCDF-13C	2.00	53	
Total PeCDF	ND	-----	0.56		1,2,3,7,8,9-HxCDF-13C	2.00	57	
					1,2,3,4,7,8-HxCDD-13C	2.00	46	
1,2,3,7,8-PeCDD	ND	-----	1.2		1,2,3,6,7,8-HxCDD-13C	2.00	40	
Total PeCDD	ND	-----	1.2		1,2,3,4,6,7,8-HpCDF-13C	2.00	40	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	43	
1,2,3,4,7,8-HxCDF	ND	-----	1.7		1,2,3,4,6,7,8-HpCDD-13C	2.00	47	
1,2,3,6,7,8-HxCDF	ND	-----	2.1		OCDD-13C	4.00	39	R
2,3,4,6,7,8-HxCDF	ND	-----	1.2					
1,2,3,7,8,9-HxCDF	ND	-----	1.3		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	1.2		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	2.4		2,3,7,8-TCDD-37Cl4	0.20	112	
1,2,3,6,7,8-HxCDD	ND	-----	2.1					
1,2,3,7,8,9-HxCDD	ND	-----	1.6					
Total HxCDD	ND	-----	1.6					
1,2,3,4,6,7,8-HpCDF	5.4	-----	4.1	J	Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	5.9		Equivalence: 0.29 pg/L			
Total HpCDF	5.4	-----	4.1	J	(Lower-bound - Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	-----	10	6.7	IJ				
Total HpCDD	ND	-----	6.7					
OCDF	-----	11	6.5	IJ				
OCDD	120	-----	11					

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
R = Recovery outside target range
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	RSW-002-06-11-20		
Lab Sample ID	10521531003		
Filename	U200623B_05		
Injected By	SMT		
Total Amount Extracted	936 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/11/2020 14:30
ICAL ID	U200419	Received	06/15/2020 08:50
CCal Filename(s)	U200623A_21 & U200623B_06	Extracted	06/19/2020 12:00
Method Blank ID	BLANK-80325	Analyzed	06/24/2020 04:34

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.85		2,3,7,8-TCDF-13C	2.00	117
Total TCDF	1.6	-----	0.85	J	2,3,7,8-TCDD-13C	2.00	102
					1,2,3,7,8-PeCDF-13C	2.00	109
2,3,7,8-TCDD	ND	-----	0.78		2,3,4,7,8-PeCDF-13C	2.00	108
Total TCDD	ND	-----	0.78		1,2,3,7,8-PeCDD-13C	2.00	109
					1,2,3,4,7,8-HxCDF-13C	2.00	92
1,2,3,7,8-PeCDF	ND	-----	1.4		1,2,3,6,7,8-HxCDF-13C	2.00	98
2,3,4,7,8-PeCDF	ND	-----	1.1		2,3,4,6,7,8-HxCDF-13C	2.00	102
Total PeCDF	ND	-----	1.1		1,2,3,7,8,9-HxCDF-13C	2.00	110
					1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	-----	0.79		1,2,3,6,7,8-HxCDD-13C	2.00	85
Total PeCDD	ND	-----	0.79		1,2,3,4,6,7,8-HpCDF-13C	2.00	85
					1,2,3,4,7,8,9-HpCDF-13C	2.00	92
1,2,3,4,7,8-HxCDF	ND	-----	1.3		1,2,3,4,6,7,8-HpCDD-13C	2.00	97
1,2,3,6,7,8-HxCDF	-----	1.4	1.4	IJ	OCDD-13C	4.00	86
2,3,4,6,7,8-HxCDF	ND	-----	1.1				
1,2,3,7,8,9-HxCDF	ND	-----	0.69		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.69		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.00		2,3,7,8-TCDD-37Cl4	0.20	158
1,2,3,6,7,8-HxCDD	ND	-----	1.0				
1,2,3,7,8,9-HxCDD	ND	-----	0.73				
Total HxCDD	ND	-----	0.73				
1,2,3,4,6,7,8-HpCDF	2.8	-----	2.7	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.0		Equivalence: 0.34 pg/L		
Total HpCDF	2.8	-----	2.7	J	(Lower-bound - Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	11	-----	2.7	J			
Total HpCDD	25	-----	2.7	J			
OCDF	ND	-----	5.1				
OCDD	62	-----	4.7	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414

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Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKHN		
Lab Sample ID	BLANK-80325	Matrix	Water
Filename	U200623A_08	Dilution	NA
Total Amount Extracted	1050 mL	Extracted	06/19/2020 12:00
ICAL ID	U200419	Analyzed	06/23/2020 16:00
CCal Filename(s)	U200623A_04 & U200623A_21	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.62		2,3,7,8-TCDF-13C	2.00	92
Total TCDF	ND	-----	0.62		2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	-----	1.3		2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	ND	-----	1.3		1,2,3,7,8-PeCDD-13C	2.00	84
					1,2,3,4,7,8-HxCDF-13C	2.00	82
1,2,3,7,8-PeCDF	2.3	-----	1.0	J	1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	-----	1.4	0.80	IJ	2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	2.3	-----	0.80	J	1,2,3,7,8,9-HxCDF-13C	2.00	98
					1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	-----	1.1	0.78	IJ	1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	ND	-----	0.78		1,2,3,4,6,7,8-HpCDF-13C	2.00	68
					1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	-----	1.4	1.3	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	-----	0.95	0.88	IJ	OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	-----	0.93				
1,2,3,7,8,9-HxCDF	ND	-----	1.2		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.88		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.1		2,3,7,8-TCDD-37Cl4	0.20	105
1,2,3,6,7,8-HxCDD	ND	-----	1.1				
1,2,3,7,8,9-HxCDD	ND	-----	1.1				
Total HxCDD	ND	-----	1.1				
1,2,3,4,6,7,8-HpCDF	ND	-----	1.6		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.1		Equivalence: 1.6 pg/L		
Total HpCDF	ND	-----	1.6		(Lower-bound - Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	2.0				
Total HpCDD	ND	-----	2.0				
OCDF	ND	-----	2.9				
OCDD	4.9	-----	2.5	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

J = Estimated value
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-80326		
Filename	U200623A_05	Matrix	Water
Total Amount Extracted	1060 mL	Dilution	NA
ICAL ID	U200419	Extracted	06/19/2020 12:00
CCal Filename(s)	U200623A_04 & U200623A_21	Analyzed	06/23/2020 13:56
Method Blank ID	BLANK-80325	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.20	99	2,3,7,8-TCDF-13C	2.0	121
Total TCDF				2,3,7,8-TCDD-13C	2.0	114
				1,2,3,7,8-PeCDF-13C	2.0	111
2,3,7,8-TCDD	0.20	0.20	101	2,3,4,7,8-PeCDF-13C	2.0	115
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	114
				1,2,3,4,7,8-HxCDF-13C	2.0	112
1,2,3,7,8-PeCDF	1.0	1.00	100	1,2,3,6,7,8-HxCDF-13C	2.0	114
2,3,4,7,8-PeCDF	1.0	0.97	97	2,3,4,6,7,8-HxCDF-13C	2.0	125
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	128
				1,2,3,4,7,8-HxCDD-13C	2.0	103
1,2,3,7,8-PeCDD	1.0	0.91	91	1,2,3,6,7,8-HxCDD-13C	2.0	104
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	92
				1,2,3,4,7,8,9-HpCDF-13C	2.0	98
1,2,3,4,7,8-HxCDF	1.0	1.1	107	1,2,3,4,6,7,8-HpCDD-13C	2.0	100
1,2,3,6,7,8-HxCDF	1.0	0.94	94	OCDD-13C	4.0	88
2,3,4,6,7,8-HxCDF	1.0	0.96	96			
1,2,3,7,8,9-HxCDF	1.0	1.0	101	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	106	2,3,7,8-TCDD-37Cl4	0.20	119
1,2,3,6,7,8-HxCDD	1.0	1.0	104			
1,2,3,7,8,9-HxCDD	1.0	1.1	105			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.0	105			
1,2,3,4,7,8,9-HpCDF	1.0	0.98	98			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.96	96			
Total HpCDD						
OCDF	2.0	2.3	114			
OCDD	2.0	2.1	104			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCSD-80327		
Filename	U200623A_06	Matrix	Water
Total Amount Extracted	1050 mL	Dilution	NA
ICAL ID	U200419	Extracted	06/19/2020 12:00
CCal Filename(s)	U200623A_04 & U200623A_21	Analyzed	06/23/2020 14:36
Method Blank ID	BLANK-80325	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	105	2,3,7,8-TCDF-13C	2.0	122
Total TCDF				2,3,7,8-TCDD-13C	2.0	113
				1,2,3,7,8-PeCDF-13C	2.0	115
2,3,7,8-TCDD	0.20	0.22	108	2,3,4,7,8-PeCDF-13C	2.0	118
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	115
				1,2,3,4,7,8-HxCDF-13C	2.0	112
1,2,3,7,8-PeCDF	1.0	0.99	99	1,2,3,6,7,8-HxCDF-13C	2.0	109
2,3,4,7,8-PeCDF	1.0	1.0	104	2,3,4,6,7,8-HxCDF-13C	2.0	121
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	124
				1,2,3,4,7,8-HxCDD-13C	2.0	111
1,2,3,7,8-PeCDD	1.0	1.00	100	1,2,3,6,7,8-HxCDD-13C	2.0	98
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	92
				1,2,3,4,7,8,9-HpCDF-13C	2.0	98
1,2,3,4,7,8-HxCDF	1.0	1.1	114	1,2,3,4,6,7,8-HpCDD-13C	2.0	103
1,2,3,6,7,8-HxCDF	1.0	1.1	107	OCDD-13C	4.0	93
2,3,4,6,7,8-HxCDF	1.0	1.0	104			
1,2,3,7,8,9-HxCDF	1.0	1.0	103	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	107	2,3,7,8-TCDD-37Cl4	0.20	117
1,2,3,6,7,8-HxCDD	1.0	1.2	118			
1,2,3,7,8,9-HxCDD	1.0	1.1	105			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.1	110			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	101			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.98	98			
Total HpCDD						
OCDF	2.0	2.4	120			
OCDD	2.0	2.2	112			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290

Spike Recovery Relative Percent Difference (RPD) Results

Client Asset Laboratories

Spike 1 ID LCS-80326 Spike 2 ID LCSD-80327
Spike 1 Filename U200623A_05 Spike 2 Filename U200623A_06

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	99	105	5.9
2,3,7,8-TCDD	101	108	6.7
1,2,3,7,8-PeCDF	100	99	1.0
2,3,4,7,8-PeCDF	97	104	7.0
1,2,3,7,8-PeCDD	91	100	9.4
1,2,3,4,7,8-HxCDF	107	114	6.3
1,2,3,6,7,8-HxCDF	94	107	12.9
2,3,4,6,7,8-HxCDF	96	104	8.0
1,2,3,7,8,9-HxCDF	101	103	2.0
1,2,3,4,7,8-HxCDD	106	107	0.9
1,2,3,6,7,8-HxCDD	104	118	12.6
1,2,3,7,8,9-HxCDD	105	105	0.0
1,2,3,4,6,7,8-HpCDF	105	110	4.7
1,2,3,4,7,8,9-HpCDF	98	101	3.0
1,2,3,4,6,7,8-HpCDD	96	98	2.1
OCDF	114	120	5.1
OCDD	104	112	7.4

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

Date of Report: 07/10/2020

Emil Angelo Rodriguez

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

Client Project:	N040965: SFPP Norwalk
BCL Project:	Cerritos
BCL Work Order:	2017340
Invoice ID:	B383763

Enclosed are the results of analyses for samples received by the laboratory on 6/16/2020. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001043141

Sincerely,

Contact Person: Vanessa Sandoval
Client Service Rep

Stuart Buttram
Technical Director

Table of Contents

Chain of Custody and Cooler Receipt Form for 2017340   Page 1 of 3

REVISED 6/16/20 VMB

SUBCOC to BC LABS

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

20-17340

Page 1 of

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

Client:	ASSET Laboratories
Address:	11110 Artesia Blvd Ste B
Address:	Cerritos, CA 90703
Phone:	562.219.7435
Fax:	562.219.7436
Submitted By:	Emil Angelo Rodriguez
Title:	Project Manager
Signature:	
Date:	
Project Name:	SFPP Norwalk
Project Number:	
Report to:	Emil Angelo Rodriguez
Company:	ASSET Laboratories
Email:	emilangelo@assetlaboratories.com
Address:	11110 Artesia Blvd Ste B, Cerritos, CA 90703
Phone:	562.881.0611
Fax:	562.219.7436
Sampled by:	SIGNED
Bill to:	Elvira Allegaert/Accounts Payable
Address:	11110 Artesia Blvd Ste B, Cerritos, CA 90703
Email to:	elvira@assetlaboratories.com
PO#:	N43065A
Phone:	562.219.7435
Fax:	562.218.7436

I hereby authorize ASSET Labs to perform the tests indicated below:

I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Signature: Date:

Matrix: Waste ☑ Sediment ☐ Potable ☐ Soil ☐ NPDES ☐ Other Solid ☐ Surface ☐

EDD Requirement: Excel EDD ☑ Geotracker ☐ Labspec ☐ Others ☐ Specify: Global ID:

QA/QC: RTNE ☐ RWQCB ☐ CalTrans ☐ Level III ☐ LEVEL IV ☐ Regulatory ☐ Specify State:

Sample Receipt Condition (Y / N): 1. Chilled ☐☐ 2. Headspace ☐☐ 3. Container Intact ☐☐ 4. Seal Present ☐☐ 5. IR number; 6. Method of Cooling; Sample Temp:

Courier: Tracking No.:

Analyses Requested: Ammonia N (SM-4500 NH3C); Cyanide (EPA 335.4); Sulfides (SM 4500 S2-D); EPA-608+ [608]; EPA-8082; EPA 8270CTR - NPDES Level [625 CTR] — YLJ 6/16/2020

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	Ammonia N (SM-4500 NH3C)	Cyanide (EPA 335.4)	Sulfides (SM 4500 S2-D)	EPA-608+	EPA-8082	EPA 8270CTR - NPDES Level	Turn Around Time (TAT)	No. of Containers	Container Type	Preservation	Remarks
1		EFF-06-11-20	6/11/2020	1315	X			X	X	X	X	X	X	E				EDD Requirement CH2MHILL Labspec7 edata. Please report "J" flagged down to MDL format.
2		RSW-001-06-11-20	6/11/2020	1420	X				X		X	X	X	E				
3		RSW-002-06-11-20	6/11/2020	1430	X				X		X	X	X	E				
4																		Please analyze for Priority Pollutants SVOCs, Pesticides, and PCBs
5	Please note:	608 OCPs and 608 PCBs																
6		625CTR																
7	YLJ																	
8	6/16/2020																	
9																		
10																		

Relinquished by (Signature and Printed Name)	Date / Time	Received by (Signature and Printed Name)	Date / Time
Emil R	6/15/20 1800	[signature]	6/16/20 800

Turn Around Time (TAT): ☐ Same Day ☐ Next Workday ☐ 2 Workdays ☐ 3 Workdays ☑ Routine 5-7 Workdays
*TAT starts at 8 AM the following day if samples are received after 5:00 PM

Special Instructions/Notes: include reports@assetlaboratories.com, tmail@assetlaboratories.com, sonnylorenzo@assetlaboratories.com, ludlicjelo.vanda@assetlaboratories.com when reporting. Results needed 6/25/20

Terms:
1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis: 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
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.

Preservatives: H: HCl; N: HNO_3; S: H_2SO_4; C: <= 6°C; Z: $Zn(AC)_2$; O: NaOH; T: $Na_2S_2O_3$; Others/Specify:

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

White = Laboratory Copy   Yellow = Customer's Copy   GSO# 549367515

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL

SUBCOC to BC LABS

CHAIN OF CUSTODY RECORD

20-17340

Page 1 of

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

Client: ASSET Laboratories	Report to: Emil Angelo Rodriguez	Bill to: Elvira Allegaert/Accounts Payable
Address: 11110 Artesia Blvd Ste B	Company: ASSET Laboratories	Address: 11110 Artesia Blvd Ste B
Address: Cerritos, CA 90703	Email: emilangelo@assetlaboratories.com	Cerritos, CA 90703
Phone: 562.219.7435 Fax: 562.219.7436	Address: 11110 Artesia Blvd Ste B	Email to: elvira@assetlaboratories.com PO#: N40965A
Submitted By: Emil Angelo Rodriguez	Cerritos, CA 90703	Phone: 562.219.7435 Fax: 562.218.7436
Title: Project Manager	Phone: 562.881.0611 Fax: 562.219.7436	
Signature: Date:	Sampled by: SIGNED	
I hereby authorize ASSET Labs to perform the tests indicated below:	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action	
Project Name: SFPP Norwalk	Signature: Date:	
Project Number:		

EDD Requirement		QA/QC		Sample Receipt Condition	Y	N
Excel EDD	☑	RTNE	☐	1. Chilled	☐	☐
Geotracker	☐	RWQCB	☐	2. Headspace	☐	☐
Labspec	☐	CalTrans	☐	3. Container Intact	☐	☐
Others	☐	Level III	☐	4. Seal Present	☐	☐
Specify:		LEVEL IV	☐	5. IR number		
GlobalID:		Regulatory	☐	6. Method of Cooling		
		Specify State:		Sample Temp:		

Matrix: Waste ☑ Sediment ☐ Potable ☐ Soil ☐ NPDES ☐ Other Solid ☐ Surface ☐

Courier:
Tracking No.

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	Ammonia N (SM-4500 NH3C)	Cyanide (EPA 335.4)	Sulfides (SM 4500 S2-D)	EPA 8081	EPA 8082	EPA 8270 CTR - NPDES Level	Turn Around Time (TAT)	No. of Containers	Container Type	Preservation	Remarks
1		EFF-06-11-20	6/11/2020	1315	X			X	X	X	X	X	X	E				EDD Requirement CH2MHILL Labspec7 edata. Please report "J" flagged down to MDL format.
2		RSW-001-06-11-20	6/11/2020	1420	X				X		X	X	X	E				
3		RSW-002-06-11-20	6/11/2020	1430	X				X		X	X	X	E				Please analyze for Priority Pollutants SVOCs, Pesticides, and PCBs
4																		
5																		
6																		
7																		
8																		
9																		
10																		

CHK BY J
DISTRIBUTION
SUB OUT ☐

Relinquished by (Signature and Printed Name):	Date / Time	Received by (Signature and Printed Name):	Date / Time
Emil R	6/15/20 1800	T. Jackson	6-16-20 800

Turn Around Time (TAT)
- ☐ A = <24Hrs or Same Day
- ☐ B = Next Workday
- ☐ C = 2 Workdays
- ☐ D = 3 Workdays
- ☑ E = Routine 5-7 Workdays

TAT starts at 8 AM the following day if samples are received after 3:00 PM

Special Instructions:
include reports@assetlaboratories.com, tmalit@assetlaboratories.com, sonny.lorenzo@assetlaboratories.com, lucille.golosinda@assetlaboratories.com when reporting

Results needed 6/23/20

Terms
1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
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
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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.

Preservatives:			
H: HCl	N: HNO_3	S: H_2SO_4	C: <= 6°C
Z: $Zn(AC)_2$	O: NaOH	T: $Na_2S_2O_3$	
Others/Specify:			

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

White = Laboratory Copy Yellow = Customer's Copy

GSO# 549367518

Chain of Custody and Cooler Receipt Form for 2017340 Page 3 of 3

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 20-17340

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 ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

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

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: PE Thermometer ID: 274 Date/Time 6-16-20 800
Temperature: (A) 4.2 °C / (C) 4.0 °C Analyst Init TKJ

SAMPLE CONTAINERS	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE 8oz	B	A	A							
PT NITROGEN FORMS	C									
PT TOTAL SULFIDE	A									
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 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548 8082	F	E	E							
QT EPA 549 8081	E	D	D							
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER	DEF	BCD	BC							
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: -3D time say 14:20 But Description matched
Sample Numbering Completed By: [illegible] Date/Time: 6/16/20 0850
A = Actual / C = Corrected

Rev 21 05/23/2016
[S:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

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

Reported: 07/10/2020 16:31
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2017340-01	**COC Number:**	---	**Receive Date:**	06/16/2020 08:00
	Project Number:	---	**Sampling Date:**	06/11/2020 13:15
	Sampling Location:	SFPP Norwalk	**Sample Depth:**	---
	Sampling Point:	EFF-06-11-20	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
2017340-02	**COC Number:**	---	**Receive Date:**	06/16/2020 08:00
	Project Number:	---	**Sampling Date:**	06/11/2020 14:20
	Sampling Location:	SFPP Norwalk	**Sample Depth:**	---
	Sampling Point:	RSW-001-06-11-20	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
2017340-03	**COC Number:**	---	**Receive Date:**	06/16/2020 08:00
	Project Number:	---	**Sampling Date:**	06/11/2020 14:30
	Sampling Location:	SFPP Norwalk	**Sample Depth:**	---
	Sampling Point:	RSW-002-06-11-20	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water

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

Reported: 07/10/2020 16:31
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Organochlorine Pesticides and PCB's (EPA Method 608)

BCL Sample ID: 2017340-01 | **Client Sample Name:** SFPP Norwalk, EFF-06-11-20, 6/11/2020 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0010	0.00019	EPA-608	ND		1
alpha-BHC	ND	ug/L	0.0010	0.00010	EPA-608	ND		1
beta-BHC	ND	ug/L	0.0010	0.00013	EPA-608	ND		1
delta-BHC	ND	ug/L	0.0010	0.00030	EPA-608	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Chlordane (Technical)	ND	ug/L	0.10	0.0089	EPA-608	ND		1
4,4'-DDD	ND	ug/L	0.0010	0.00018	EPA-608	ND		1
4,4'-DDE	**0.00043**	**ug/L**	**0.0010**	**0.00025**	**EPA-608**	ND	**J**	1
4,4'-DDT	ND	ug/L	0.0010	0.00019	EPA-608	ND		1
Dieldrin	ND	ug/L	0.0010	0.00022	EPA-608	ND		1
Endosulfan I	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Endosulfan II	ND	ug/L	0.0010	0.00020	EPA-608	ND		1
Endosulfan sulfate	ND	ug/L	0.0010	0.00011	EPA-608	ND		1
Endrin	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Endrin aldehyde	ND	ug/L	0.0020	0.00011	EPA-608	ND		1
Heptachlor	ND	ug/L	0.0010	0.00019	EPA-608	ND		1
Heptachlor epoxide	ND	ug/L	0.0010	0.00013	EPA-608	ND		1
Methoxychlor	ND	ug/L	0.0010	0.00074	EPA-608	ND		1
Toxaphene	ND	ug/L	0.40	0.040	EPA-608	ND		1
PCB-1016	ND	ug/L	0.040	0.014	EPA-608	ND		1
PCB-1221	ND	ug/L	0.040	0.013	EPA-608	ND		1
PCB-1232	ND	ug/L	0.040	0.012	EPA-608	ND		1
PCB-1242	ND	ug/L	0.040	0.0074	EPA-608	ND		1
PCB-1248	ND	ug/L	0.040	0.0088	EPA-608	ND		1
PCB-1254	ND	ug/L	0.040	0.0074	EPA-608	ND		1
PCB-1260	ND	ug/L	0.040	0.018	EPA-608	ND		1
PCB-1262	ND	ug/L	0.040	0.014	EPA-608	ND		1
PCB-1268	ND	ug/L	0.040	0.012	EPA-608	ND		1
Total PCB's (Summation)	ND	ug/L	0.040	0.020	EPA-608	ND		1
TCMX (Surrogate)	53.6	%	40 - 140 (LCL - UCL)		EPA-608			1
Decachlorobiphenyl (Surrogate)	74.1	%	50 - 130 (LCL - UCL)		EPA-608			1

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

Reported: 07/10/2020 16:31
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Organochlorine Pesticides and PCB's (EPA Method 608)

BCL Sample ID: 2017340-01 | **Client Sample Name:** SFPP Norwalk, EFF-06-11-20, 6/11/2020 1:15:00PM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-608	06/17/20 20:30	06/19/20 20:15	HKS	GC-17	1.042	B080711	EPA 608

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

Reported: 07/10/2020 16:31
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-01 | **Client Sample Name:** SFPP Norwalk, EFF-06-11-20, 6/11/2020 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	1.0	0.22	EPA-625	ND		1
Acenaphthylene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Aldrin	ND	ug/L	2.0	0.28	EPA-625	ND		1
Aniline	ND	ug/L	5.0	1.8	EPA-625	ND		1
Anthracene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Benzidine	ND	ug/L	5.3	3.0	EPA-625	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.42	EPA-625	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.29	EPA-625	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.21	EPA-625	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.48	EPA-625	ND		1
Benzoic acid	ND	ug/L	10	0.72	EPA-625	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.35	EPA-625	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.26	EPA-625	ND		1
alpha-BHC	ND	ug/L	2.0	0.36	EPA-625	ND		1
beta-BHC	ND	ug/L	2.0	0.25	EPA-625	ND		1
delta-BHC	ND	ug/L	2.0	0.28	EPA-625	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.32	EPA-625	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-625	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.86	EPA-625	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	1.7	EPA-625	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.0	0.20	EPA-625	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-625	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.39	EPA-625	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.23	EPA-625	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-625	ND		1
Chrysene	ND	ug/L	2.0	0.26	EPA-625	ND		1
4,4'-DDD	ND	ug/L	2.0	0.40	EPA-625	ND		1
4,4'-DDE	ND	ug/L	3.0	0.32	EPA-625	ND		1
4,4'-DDT	ND	ug/L	2.0	0.26	EPA-625	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.59	EPA-625	ND		1
Dibenzofuran	ND	ug/L	2.0	0.20	EPA-625	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.055	EPA-625	ND		1

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Reported: 07/10/2020 16:31
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-01 | **Client Sample Name:** SFPP Norwalk, EFF-06-11-20, 6/11/2020 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	1.0	0.066	EPA-625	ND		1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.050	EPA-625	ND		1
3,3-Dichlorobenzidine	ND	ug/L	5.0	0.41	EPA-625	ND		1
Dieldrin	ND	ug/L	3.0	0.45	EPA-625	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.20	EPA-625	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.25	EPA-625	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.87	EPA-625	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.46	EPA-625	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.31	EPA-625	ND		1
1,2-Diphenylhydrazine	ND	ug/L	1.0	0.44	EPA-625	ND		1
Endosulfan I	ND	ug/L	10	0.37	EPA-625	ND		1
Endosulfan II	ND	ug/L	10	0.37	EPA-625	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.37	EPA-625	ND		1
Endrin	ND	ug/L	2.0	0.67	EPA-625	ND		1
Endrin aldehyde	ND	ug/L	10	0.37	EPA-625	ND		1
Fluoranthene	ND	ug/L	1.0	0.41	EPA-625	ND		1
Fluorene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Heptachlor	ND	ug/L	2.0	0.22	EPA-625	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.35	EPA-625	ND		1
Hexachlorobenzene	ND	ug/L	1.0	0.23	EPA-625	ND		1
Hexachlorobutadiene	ND	ug/L	1.0	0.078	EPA-625	ND		1
Hexachlorocyclopentadiene	ND	ug/L	1.0	0.35	EPA-625	ND		1
Hexachloroethane	ND	ug/L	1.0	0.057	EPA-625	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.71	EPA-625	ND		1
Isophorone	ND	ug/L	1.0	0.41	EPA-625	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Naphthalene	ND	ug/L	1.0	0.068	EPA-625	ND		1
2-Naphthylamine	ND	ug/L	20	1.7	EPA-625	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.36	EPA-625	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.52	EPA-625	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.85	EPA-625	ND		1
Nitrobenzene	ND	ug/L	1.0	0.39	EPA-625	ND		1

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Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-01 | **Client Sample Name:** SFPP Norwalk, EFF-06-11-20, 6/11/2020 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.56	EPA-625	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	0.56	EPA-625	ND		1
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.27	EPA-625	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Pyrene	ND	ug/L	2.0	0.31	EPA-625	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.076	EPA-625	ND		1
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.42	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.85	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	1.0	0.26	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	1.0	0.30	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	5.0	0.43	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	5.0	0.37	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	0.55	EPA-625	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	0.72	EPA-625	ND		1
Total Methylphenol	ND	ug/L	4.0	1.3	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.39	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.66	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	1.0	0.43	EPA-625	ND		1
Phenol	ND	ug/L	1.0	0.84	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.36	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.34	EPA-625	ND		1
2-Fluorophenol (Surrogate)	67.0	%	36 - 98 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	58.8	%	10 - 89 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	89.5	%	59 - 122 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	90.0	%	44 - 138 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	137	%	51 - 139 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	114	%	23 - 173 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-625	06/17/20 19:00	06/18/20 20:44	MK1	HPCHEM	1.031	B080591	EPA 3510C

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Reported: 07/10/2020 16:31
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Water Analysis (General Chemistry)

BCL Sample ID: 2017340-01 | **Client Sample Name:** SFPP Norwalk, EFF-06-11-20, 6/11/2020 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Cyanide	ND	mg/L	0.0050	0.0017	EPA-335.4	ND		1
Ammonia as N (Distilled)	**0.13**	**mg/L**	**0.20**	**0.067**	**SM-4500-NH3G**	ND	**J**	2
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-335.4	06/17/20 08:01	06/17/20 12:57	JMH	KONE-1	1	B080352	EPA 335.4 Total
2	SM-4500-NH3G	06/17/20 10:00	06/22/20 11:55	JMH2	SC-1	1.079	B080386	SM 4500-NH3G
3	SM-4500SD	06/17/20 15:00	06/17/20 15:00	JKS	SPEC06	1	B080362	SM 4500SD

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Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Organochlorine Pesticides and PCB's (EPA Method 608)

BCL Sample ID: 2017340-02 | **Client Sample Name:** SFPP Norwalk, RSW-001-06-11-20, 6/11/2020 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0010	0.00019	EPA-608	ND		1
alpha-BHC	ND	ug/L	0.0010	0.00010	EPA-608	ND		1
beta-BHC	ND	ug/L	0.0010	0.00013	EPA-608	ND		1
delta-BHC	ND	ug/L	0.0010	0.00030	EPA-608	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Chlordane (Technical)	ND	ug/L	0.10	0.0089	EPA-608	ND		1
4,4'-DDD	ND	ug/L	0.0010	0.00018	EPA-608	ND		1
4,4'-DDE	ND	ug/L	0.0010	0.00025	EPA-608	ND		1
4,4'-DDT	**0.0048**	**ug/L**	**0.0010**	**0.00019**	**EPA-608**	ND		1
Dieldrin	ND	ug/L	0.0010	0.00022	EPA-608	ND		1
Endosulfan I	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Endosulfan II	ND	ug/L	0.0010	0.00020	EPA-608	ND		1
Endosulfan sulfate	ND	ug/L	0.0010	0.00011	EPA-608	ND		1
Endrin	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Endrin aldehyde	ND	ug/L	0.0020	0.00011	EPA-608	ND		1
Heptachlor	ND	ug/L	0.0010	0.00019	EPA-608	ND		1
Heptachlor epoxide	ND	ug/L	0.0010	0.00013	EPA-608	ND		1
Methoxychlor	ND	ug/L	0.0010	0.00074	EPA-608	ND		1
Toxaphene	ND	ug/L	0.40	0.040	EPA-608	ND		1
PCB-1016	ND	ug/L	0.040	0.014	EPA-608	ND		1
PCB-1221	ND	ug/L	0.040	0.013	EPA-608	ND		1
PCB-1232	ND	ug/L	0.040	0.012	EPA-608	ND		1
PCB-1242	ND	ug/L	0.040	0.0074	EPA-608	ND		1
PCB-1248	ND	ug/L	0.040	0.0088	EPA-608	ND		1
PCB-1254	ND	ug/L	0.040	0.0074	EPA-608	ND		1
PCB-1260	ND	ug/L	0.040	0.018	EPA-608	ND		1
PCB-1262	ND	ug/L	0.040	0.014	EPA-608	ND		1
PCB-1268	ND	ug/L	0.040	0.012	EPA-608	ND		1
Total PCB's (Summation)	ND	ug/L	0.040	0.020	EPA-608	ND		1
TCMX (Surrogate)	83.0	%	40 - 140 (LCL - UCL)		EPA-608			1
Decachlorobiphenyl (Surrogate)	62.1	%	50 - 130 (LCL - UCL)		EPA-608			1

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Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Organochlorine Pesticides and PCB's (EPA Method 608)

BCL Sample ID: 2017340-02 | **Client Sample Name:** SFPP Norwalk, RSW-001-06-11-20, 6/11/2020 2:20:00PM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-608	06/17/20 20:30	06/19/20 19:42	HKS	GC-17	1.020	B080711	EPA 608

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Reported: 07/10/2020 16:31
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-02 | **Client Sample Name:** SFPP Norwalk, RSW-001-06-11-20, 6/11/2020 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	10	2.2	EPA-625	ND	A10	1
Acenaphthylene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Aldrin	ND	ug/L	20	2.8	EPA-625	ND	A10	1
Aniline	ND	ug/L	50	18	EPA-625	ND	A10	1
Anthracene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Benzidine	ND	ug/L	53	30	EPA-625	ND	A10	1
Benzo[a]anthracene	ND	ug/L	20	3.0	EPA-625	ND	A10	1
Benzo[b]fluoranthene	ND	ug/L	20	4.2	EPA-625	ND	A10	1
Benzo[k]fluoranthene	ND	ug/L	20	2.9	EPA-625	ND	A10	1
Benzo[a]pyrene	ND	ug/L	20	2.1	EPA-625	ND	A10	1
Benzo[g,h,i]perylene	ND	ug/L	20	4.8	EPA-625	ND	A10	1
Benzoic acid	ND	ug/L	100	7.2	EPA-625	ND	A10	1
Benzyl alcohol	ND	ug/L	20	3.5	EPA-625	ND	A10	1
Benzyl butyl phthalate	ND	ug/L	20	2.6	EPA-625	ND	A10	1
alpha-BHC	ND	ug/L	20	3.6	EPA-625	ND	A10	1
beta-BHC	ND	ug/L	20	2.5	EPA-625	ND	A10	1
delta-BHC	ND	ug/L	20	2.8	EPA-625	ND	A10	1
gamma-BHC (Lindane)	ND	ug/L	20	3.2	EPA-625	ND	A10	1
bis(2-Chloroethoxy)methane	ND	ug/L	20	2.7	EPA-625	ND	A10	1
bis(2-Chloroethyl) ether	ND	ug/L	10	8.6	EPA-625	ND	A10	1
bis(2-Chloroisopropyl)ether	ND	ug/L	20	17	EPA-625	ND	A10	1
bis(2-Ethylhexyl)phthalate	ND	ug/L	30	2.0	EPA-625	ND	A10	1
4-Bromophenyl phenyl ether	ND	ug/L	20	2.0	EPA-625	ND	A10	1
4-Chloroaniline	ND	ug/L	20	3.9	EPA-625	ND	A10	1
2-Chloronaphthalene	ND	ug/L	20	2.3	EPA-625	ND	A10	1
4-Chlorophenyl phenyl ether	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Chrysene	ND	ug/L	20	2.6	EPA-625	ND	A10	1
4,4'-DDD	ND	ug/L	20	4.0	EPA-625	ND	A10	1
4,4'-DDE	ND	ug/L	30	3.2	EPA-625	ND	A10	1
4,4'-DDT	ND	ug/L	20	2.6	EPA-625	ND	A10	1
Dibenzo[a,h]anthracene	ND	ug/L	30	5.9	EPA-625	ND	A10	1
Dibenzofuran	ND	ug/L	20	2.0	EPA-625	ND	A10	1
1,2-Dichlorobenzene	ND	ug/L	20	0.55	EPA-625	ND	A10	1

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Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-02 | **Client Sample Name:** SFPP Norwalk, RSW-001-06-11-20, 6/11/2020 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	10	0.66	EPA-625	ND	A10	1
1,4-Dichlorobenzene	ND	ug/L	10	0.50	EPA-625	ND	A10	1
3,3-Dichlorobenzidine	ND	ug/L	50	4.1	EPA-625	ND	A10	1
Dieldrin	ND	ug/L	30	4.5	EPA-625	ND	A10	1
Diethyl phthalate	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Dimethyl phthalate	ND	ug/L	20	2.5	EPA-625	ND	A10	1
Di-n-butyl phthalate	ND	ug/L	20	2.0	EPA-625	ND	A10	1
2,4-Dinitrotoluene	ND	ug/L	20	8.7	EPA-625	ND	A10	1
2,6-Dinitrotoluene	ND	ug/L	20	4.6	EPA-625	ND	A10	1
Di-n-octyl phthalate	ND	ug/L	20	3.1	EPA-625	ND	A10	1
1,2-Diphenylhydrazine	ND	ug/L	10	4.4	EPA-625	ND	A10	1
Endosulfan I	ND	ug/L	100	3.7	EPA-625	ND	A10	1
Endosulfan II	ND	ug/L	100	3.7	EPA-625	ND	A10	1
Endosulfan sulfate	ND	ug/L	30	3.7	EPA-625	ND	A10	1
Endrin	ND	ug/L	20	6.7	EPA-625	ND	A10	1
Endrin aldehyde	ND	ug/L	100	3.7	EPA-625	ND	A10	1
Fluoranthene	ND	ug/L	10	4.1	EPA-625	ND	A10	1
Fluorene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Heptachlor	ND	ug/L	20	2.2	EPA-625	ND	A10	1
Heptachlor epoxide	ND	ug/L	20	3.5	EPA-625	ND	A10	1
Hexachlorobenzene	ND	ug/L	10	2.3	EPA-625	ND	A10	1
Hexachlorobutadiene	ND	ug/L	10	0.78	EPA-625	ND	A10	1
Hexachlorocyclopentadiene	ND	ug/L	10	3.5	EPA-625	ND	A10	1
Hexachloroethane	ND	ug/L	10	0.57	EPA-625	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	ug/L	20	7.1	EPA-625	ND	A10	1
Isophorone	ND	ug/L	10	4.1	EPA-625	ND	A10	1
2-Methylnaphthalene	ND	ug/L	20	3.0	EPA-625	ND	A10	1
Naphthalene	ND	ug/L	10	0.68	EPA-625	ND	A10	1
2-Naphthylamine	ND	ug/L	200	17	EPA-625	ND	A10	1
2-Nitroaniline	ND	ug/L	20	3.6	EPA-625	ND	A10	1
3-Nitroaniline	ND	ug/L	20	5.2	EPA-625	ND	A10	1
4-Nitroaniline	ND	ug/L	50	8.5	EPA-625	ND	A10	1
Nitrobenzene	ND	ug/L	10	3.9	EPA-625	ND	A10	1

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Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-02 | **Client Sample Name:** SFPP Norwalk, RSW-001-06-11-20, 6/11/2020 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	20	5.6	EPA-625	ND	A10	1
N-Nitrosodi-N-propylamine	ND	ug/L	20	5.6	EPA-625	ND	A10	1
N-Nitrosodiphenylamine	ND	ug/L	10	2.7	EPA-625	ND	A10	1
Phenanthrene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Pyrene	ND	ug/L	20	3.1	EPA-625	ND	A10	1
1,2,4-Trichlorobenzene	ND	ug/L	10	0.76	EPA-625	ND	A10	1
4-Chloro-3-methylphenol	ND	ug/L	10	4.2	EPA-625	ND	A10	1
2-Chlorophenol	ND	ug/L	20	8.5	EPA-625	ND	A10	1
2,4-Dichlorophenol	ND	ug/L	10	2.6	EPA-625	ND	A10	1
2,4-Dimethylphenol	ND	ug/L	10	3.0	EPA-625	ND	A10	1
4,6-Dinitro-2-methylphenol	ND	ug/L	50	4.3	EPA-625	ND	A10	1
2,4-Dinitrophenol	ND	ug/L	50	3.7	EPA-625	ND	A10	1
2-Methylphenol	ND	ug/L	20	5.5	EPA-625	ND	A10	1
3- & 4-Methylphenol	ND	ug/L	20	7.2	EPA-625	ND	A10	1
Total Methylphenol	ND	ug/L	40	13	EPA-625	ND	A10	1
2-Nitrophenol	ND	ug/L	20	3.9	EPA-625	ND	A10	1
4-Nitrophenol	ND	ug/L	20	6.6	EPA-625	ND	A10	1
Pentachlorophenol	ND	ug/L	10	4.3	EPA-625	ND	A10	1
Phenol	ND	ug/L	10	8.4	EPA-625	ND	A10	1
2,4,5-Trichlorophenol	ND	ug/L	50	3.6	EPA-625	ND	A10	1
2,4,6-Trichlorophenol	ND	ug/L	50	3.4	EPA-625	ND	A10	1
2-Fluorophenol (Surrogate)	45.8	%	36 - 98 (LCL - UCL)		EPA-625		A10	1
Phenol-d5 (Surrogate)	36.3	%	10 - 89 (LCL - UCL)		EPA-625		A10	1
Nitrobenzene-d5 (Surrogate)	97.3	%	59 - 122 (LCL - UCL)		EPA-625		A10	1
2-Fluorobiphenyl (Surrogate)	94.8	%	44 - 138 (LCL - UCL)		EPA-625		A10	1
2,4,6-Tribromophenol (Surrogate)	105	%	51 - 139 (LCL - UCL)		EPA-625		A10	1
p-Terphenyl-d14 (Surrogate)	99.5	%	23 - 173 (LCL - UCL)		EPA-625		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-625	06/17/20 19:00	06/19/20 01:47	MK1	HPCHEM	9.899	B080591	EPA 3510C

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Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Water Analysis (General Chemistry)

BCL Sample ID: 2017340-02 | **Client Sample Name:** SFPP Norwalk, RSW-001-06-11-20, 6/11/2020 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Cyanide	ND	mg/L	0.0050	0.0017	EPA-335.4	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-335.4	06/17/20 08:01	06/17/20 12:57	JMH	KONE-1	1	B080352	EPA 335.4 Total

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Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Organochlorine Pesticides and PCB's (EPA Method 608)

BCL Sample ID: 2017340-03 | **Client Sample Name:** SFPP Norwalk, RSW-002-06-11-20, 6/11/2020 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0010	0.00019	EPA-608	ND		1
alpha-BHC	ND	ug/L	0.0010	0.00010	EPA-608	ND		1
beta-BHC	ND	ug/L	0.0010	0.00013	EPA-608	ND		1
delta-BHC	ND	ug/L	0.0010	0.00030	EPA-608	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Chlordane (Technical)	ND	ug/L	0.10	0.0089	EPA-608	ND		1
4,4'-DDD	**0.0022**	**ug/L**	**0.0010**	**0.00018**	**EPA-608**	ND		1
4,4'-DDE	ND	ug/L	0.0010	0.00025	EPA-608	ND		1
4,4'-DDT	**0.0045**	**ug/L**	**0.0010**	**0.00019**	**EPA-608**	ND		1
Dieldrin	ND	ug/L	0.0010	0.00022	EPA-608	ND		1
Endosulfan I	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Endosulfan II	ND	ug/L	0.0010	0.00020	EPA-608	ND		1
Endosulfan sulfate	ND	ug/L	0.0010	0.00011	EPA-608	ND		1
Endrin	ND	ug/L	0.0010	0.00014	EPA-608	ND		1
Endrin aldehyde	ND	ug/L	0.0020	0.00011	EPA-608	ND		1
Heptachlor	ND	ug/L	0.0010	0.00019	EPA-608	ND		1
Heptachlor epoxide	ND	ug/L	0.0010	0.00013	EPA-608	ND		1
Methoxychlor	ND	ug/L	0.0010	0.00074	EPA-608	ND		1
Toxaphene	ND	ug/L	0.40	0.040	EPA-608	ND		1
PCB-1016	ND	ug/L	0.040	0.014	EPA-608	ND		1
PCB-1221	ND	ug/L	0.040	0.013	EPA-608	ND		1
PCB-1232	ND	ug/L	0.040	0.012	EPA-608	ND		1
PCB-1242	ND	ug/L	0.040	0.0074	EPA-608	ND		1
PCB-1248	ND	ug/L	0.040	0.0088	EPA-608	ND		1
PCB-1254	ND	ug/L	0.040	0.0074	EPA-608	ND		1
PCB-1260	ND	ug/L	0.040	0.018	EPA-608	ND		1
PCB-1262	ND	ug/L	0.040	0.014	EPA-608	ND		1
PCB-1268	ND	ug/L	0.040	0.012	EPA-608	ND		1
Total PCB's (Summation)	ND	ug/L	0.040	0.020	EPA-608	ND		1
TCMX (Surrogate)	93.9	%	40 - 140 (LCL - UCL)		EPA-608			1
Decachlorobiphenyl (Surrogate)	65.9	%	50 - 130 (LCL - UCL)		EPA-608			1

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Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Organochlorine Pesticides and PCB's (EPA Method 608)

BCL Sample ID: 2017340-03 | **Client Sample Name:** SFPP Norwalk, RSW-002-06-11-20, 6/11/2020 2:30:00PM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-608	06/17/20 20:30	06/19/20 19:59	HKS	GC-17	1.010	B080711	EPA 608

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Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-03 | **Client Sample Name:** SFPP Norwalk, RSW-002-06-11-20, 6/11/2020 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	10	2.2	EPA-625	ND	A10	1
Acenaphthylene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Aldrin	ND	ug/L	20	2.8	EPA-625	ND	A10	1
Aniline	ND	ug/L	50	18	EPA-625	ND	A10	1
Anthracene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Benzidine	ND	ug/L	53	30	EPA-625	ND	A10	1
Benzo[a]anthracene	ND	ug/L	20	3.0	EPA-625	ND	A10	1
Benzo[b]fluoranthene	ND	ug/L	20	4.2	EPA-625	ND	A10	1
Benzo[k]fluoranthene	ND	ug/L	20	2.9	EPA-625	ND	A10	1
Benzo[a]pyrene	ND	ug/L	20	2.1	EPA-625	ND	A10	1
Benzo[g,h,i]perylene	ND	ug/L	20	4.8	EPA-625	ND	A10	1
Benzoic acid	ND	ug/L	100	7.2	EPA-625	ND	A10	1
Benzyl alcohol	ND	ug/L	20	3.5	EPA-625	ND	A10	1
Benzyl butyl phthalate	ND	ug/L	20	2.6	EPA-625	ND	A10	1
alpha-BHC	ND	ug/L	20	3.6	EPA-625	ND	A10	1
beta-BHC	ND	ug/L	20	2.5	EPA-625	ND	A10	1
delta-BHC	ND	ug/L	20	2.8	EPA-625	ND	A10	1
gamma-BHC (Lindane)	ND	ug/L	20	3.2	EPA-625	ND	A10	1
bis(2-Chloroethoxy)methane	ND	ug/L	20	2.7	EPA-625	ND	A10	1
bis(2-Chloroethyl) ether	ND	ug/L	10	8.6	EPA-625	ND	A10	1
bis(2-Chloroisopropyl)ether	ND	ug/L	20	17	EPA-625	ND	A10	1
bis(2-Ethylhexyl)phthalate	ND	ug/L	30	2.0	EPA-625	ND	A10	1
4-Bromophenyl phenyl ether	ND	ug/L	20	2.0	EPA-625	ND	A10	1
4-Chloroaniline	ND	ug/L	20	3.9	EPA-625	ND	A10	1
2-Chloronaphthalene	ND	ug/L	20	2.3	EPA-625	ND	A10	1
4-Chlorophenyl phenyl ether	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Chrysene	ND	ug/L	20	2.6	EPA-625	ND	A10	1
4,4'-DDD	ND	ug/L	20	4.0	EPA-625	ND	A10	1
4,4'-DDE	ND	ug/L	30	3.2	EPA-625	ND	A10	1
4,4'-DDT	ND	ug/L	20	2.6	EPA-625	ND	A10	1
Dibenzo[a,h]anthracene	ND	ug/L	30	5.9	EPA-625	ND	A10	1
Dibenzofuran	ND	ug/L	20	2.0	EPA-625	ND	A10	1
1,2-Dichlorobenzene	ND	ug/L	20	0.55	EPA-625	ND	A10	1

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Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-03 | **Client Sample Name:** SFPP Norwalk, RSW-002-06-11-20, 6/11/2020 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	10	0.66	EPA-625	ND	A10	1
1,4-Dichlorobenzene	ND	ug/L	10	0.50	EPA-625	ND	A10	1
3,3-Dichlorobenzidine	ND	ug/L	50	4.1	EPA-625	ND	A10	1
Dieldrin	ND	ug/L	30	4.5	EPA-625	ND	A10	1
Diethyl phthalate	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Dimethyl phthalate	ND	ug/L	20	2.5	EPA-625	ND	A10	1
Di-n-butyl phthalate	ND	ug/L	20	2.0	EPA-625	ND	A10	1
2,4-Dinitrotoluene	ND	ug/L	20	8.7	EPA-625	ND	A10	1
2,6-Dinitrotoluene	ND	ug/L	20	4.6	EPA-625	ND	A10	1
Di-n-octyl phthalate	ND	ug/L	20	3.1	EPA-625	ND	A10	1
1,2-Diphenylhydrazine	ND	ug/L	10	4.4	EPA-625	ND	A10	1
Endosulfan I	ND	ug/L	100	3.7	EPA-625	ND	A10	1
Endosulfan II	ND	ug/L	100	3.7	EPA-625	ND	A10	1
Endosulfan sulfate	ND	ug/L	30	3.7	EPA-625	ND	A10	1
Endrin	ND	ug/L	20	6.7	EPA-625	ND	A10	1
Endrin aldehyde	ND	ug/L	100	3.7	EPA-625	ND	A10	1
Fluoranthene	ND	ug/L	10	4.1	EPA-625	ND	A10	1
Fluorene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Heptachlor	ND	ug/L	20	2.2	EPA-625	ND	A10	1
Heptachlor epoxide	ND	ug/L	20	3.5	EPA-625	ND	A10	1
Hexachlorobenzene	ND	ug/L	10	2.3	EPA-625	ND	A10	1
Hexachlorobutadiene	ND	ug/L	10	0.78	EPA-625	ND	A10	1
Hexachlorocyclopentadiene	ND	ug/L	10	3.5	EPA-625	ND	A10	1
Hexachloroethane	ND	ug/L	10	0.57	EPA-625	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	ug/L	20	7.1	EPA-625	ND	A10	1
Isophorone	ND	ug/L	10	4.1	EPA-625	ND	A10	1
2-Methylnaphthalene	ND	ug/L	20	3.0	EPA-625	ND	A10	1
Naphthalene	ND	ug/L	10	0.68	EPA-625	ND	A10	1
2-Naphthylamine	ND	ug/L	200	17	EPA-625	ND	A10	1
2-Nitroaniline	ND	ug/L	20	3.6	EPA-625	ND	A10	1
3-Nitroaniline	ND	ug/L	20	5.2	EPA-625	ND	A10	1
4-Nitroaniline	ND	ug/L	50	8.5	EPA-625	ND	A10	1
Nitrobenzene	ND	ug/L	10	3.9	EPA-625	ND	A10	1

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Project: Cerritos
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Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 2017340-03 | **Client Sample Name:** SFPP Norwalk, RSW-002-06-11-20, 6/11/2020 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	20	5.6	EPA-625	ND	A10	1
N-Nitrosodi-N-propylamine	ND	ug/L	20	5.6	EPA-625	ND	A10	1
N-Nitrosodiphenylamine	ND	ug/L	10	2.7	EPA-625	ND	A10	1
Phenanthrene	ND	ug/L	20	2.0	EPA-625	ND	A10	1
Pyrene	ND	ug/L	20	3.1	EPA-625	ND	A10	1
1,2,4-Trichlorobenzene	ND	ug/L	10	0.76	EPA-625	ND	A10	1
4-Chloro-3-methylphenol	ND	ug/L	10	4.2	EPA-625	ND	A10	1
2-Chlorophenol	ND	ug/L	20	8.5	EPA-625	ND	A10	1
2,4-Dichlorophenol	ND	ug/L	10	2.6	EPA-625	ND	A10	1
2,4-Dimethylphenol	ND	ug/L	10	3.0	EPA-625	ND	A10	1
4,6-Dinitro-2-methylphenol	ND	ug/L	50	4.3	EPA-625	ND	A10	1
2,4-Dinitrophenol	ND	ug/L	50	3.7	EPA-625	ND	A10	1
2-Methylphenol	ND	ug/L	20	5.5	EPA-625	ND	A10	1
3- & 4-Methylphenol	ND	ug/L	20	7.2	EPA-625	ND	A10	1
Total Methylphenol	ND	ug/L	40	13	EPA-625	ND	A10	1
2-Nitrophenol	ND	ug/L	20	3.9	EPA-625	ND	A10	1
4-Nitrophenol	ND	ug/L	20	6.6	EPA-625	ND	A10	1
Pentachlorophenol	ND	ug/L	10	4.3	EPA-625	ND	A10	1
Phenol	ND	ug/L	10	8.4	EPA-625	ND	A10	1
2,4,5-Trichlorophenol	ND	ug/L	50	3.6	EPA-625	ND	A10	1
2,4,6-Trichlorophenol	ND	ug/L	50	3.4	EPA-625	ND	A10	1
2-Fluorophenol (Surrogate)	52.8	%	36 - 98 (LCL - UCL)		EPA-625		A10	1
Phenol-d5 (Surrogate)	34.1	%	10 - 89 (LCL - UCL)		EPA-625		A10	1
Nitrobenzene-d5 (Surrogate)	82.1	%	59 - 122 (LCL - UCL)		EPA-625		A10	1
2-Fluorobiphenyl (Surrogate)	81.6	%	44 - 138 (LCL - UCL)		EPA-625		A10	1
2,4,6-Tribromophenol (Surrogate)	97.9	%	51 - 139 (LCL - UCL)		EPA-625		A10	1
p-Terphenyl-d14 (Surrogate)	74.9	%	23 - 173 (LCL - UCL)		EPA-625		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-625	06/17/20 19:00	06/19/20 02:14	MK1	HPCHEM	9.697	B080591	EPA 3510C

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Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Water Analysis (General Chemistry)

BCL Sample ID: 2017340-03 | **Client Sample Name:** SFPP Norwalk, RSW-002-06-11-20, 6/11/2020 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Cyanide	ND	mg/L	0.0050	0.0017	EPA-335.4	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-335.4	06/17/20 08:01	06/17/20 12:57	JMH	KONE-1	1	B080352	EPA 335.4 Total

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Reported: 07/10/2020 16:31
Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Organochlorine Pesticides and PCB's (EPA Method 608)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080711						
Aldrin	B080711-BLK1	ND	ug/L	0.0010	0.00019	
alpha-BHC	B080711-BLK1	ND	ug/L	0.0010	0.00010	
beta-BHC	B080711-BLK1	ND	ug/L	0.0010	0.00013	
delta-BHC	B080711-BLK1	ND	ug/L	0.0010	0.00030	
gamma-BHC (Lindane)	B080711-BLK1	ND	ug/L	0.0010	0.00014	
Chlordane (Technical)	B080711-BLK1	ND	ug/L	0.10	0.0089	
4,4'-DDD	B080711-BLK1	ND	ug/L	0.0010	0.00018	
4,4'-DDE	B080711-BLK1	ND	ug/L	0.0010	0.00025	
4,4'-DDT	B080711-BLK1	ND	ug/L	0.0010	0.00019	
Dieldrin	B080711-BLK1	ND	ug/L	0.0010	0.00022	
Endosulfan I	B080711-BLK1	ND	ug/L	0.0010	0.00014	
Endosulfan II	B080711-BLK1	ND	ug/L	0.0010	0.00020	
Endosulfan sulfate	B080711-BLK1	ND	ug/L	0.0010	0.00011	
Endrin	B080711-BLK1	ND	ug/L	0.0010	0.00014	
Endrin aldehyde	B080711-BLK1	ND	ug/L	0.0020	0.00011	
Heptachlor	B080711-BLK1	ND	ug/L	0.0010	0.00019	
Heptachlor epoxide	B080711-BLK1	ND	ug/L	0.0010	0.00013	
Methoxychlor	B080711-BLK1	ND	ug/L	0.0010	0.00074	
Toxaphene	B080711-BLK1	ND	ug/L	0.40	0.040	
PCB-1016	B080711-BLK1	ND	ug/L	0.040	0.014	
PCB-1221	B080711-BLK1	ND	ug/L	0.040	0.013	
PCB-1232	B080711-BLK1	ND	ug/L	0.040	0.012	
PCB-1242	B080711-BLK1	ND	ug/L	0.040	0.0074	
PCB-1248	B080711-BLK1	ND	ug/L	0.040	0.0088	
PCB-1254	B080711-BLK1	ND	ug/L	0.040	0.0074	
PCB-1260	B080711-BLK1	ND	ug/L	0.040	0.018	
PCB-1262	B080711-BLK1	ND	ug/L	0.040	0.014	
PCB-1268	B080711-BLK1	ND	ug/L	0.040	0.012	
Total PCB's (Summation)	B080711-BLK1	ND	ug/L	0.040	0.020	
TCMX (Surrogate)	**B080711-BLK1**	**68.8**	%	**40 - 140 (LCL - UCL)**		
Decachlorobiphenyl (Surrogate)	**B080711-BLK1**	**61.6**	%	**50 - 130 (LCL - UCL)**		

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Project: Cerritos
Project Number: N040965: SFPP Norwalk
Project Manager: Emil Angelo Rodriguez

Organochlorine Pesticides and PCB's (EPA Method 608)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B080711										
Aldrin	B080711-BS1	LCS	0.016404	0.030000	ug/L	54.7		60 - 130		L01
gamma-BHC (Lindane)	B080711-BS1	LCS	0.020694	0.030000	ug/L	69.0		60 - 130		
4,4'-DDT	B080711-BS1	LCS	0.019774	0.030000	ug/L	65.9		60 - 130		
Dieldrin	B080711-BS1	LCS	0.020366	0.030000	ug/L	67.9		60 - 130		
Endrin	B080711-BS1	LCS	0.022312	0.030000	ug/L	74.4		60 - 130		
Heptachlor	B080711-BS1	LCS	0.017158	0.030000	ug/L	57.2		60 - 130		L01
TCMX (Surrogate)	B080711-BS1	LCS	0.036078	0.060000	ug/L	60.1		40 - 140		
Decachlorobiphenyl (Surrogate)	B080711-BS1	LCS	0.062628	0.12000	ug/L	52.2		50 - 130		

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Project: Cerritos
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Project Manager: Emil Angelo Rodriguez

Organochlorine Pesticides and PCB's (EPA Method 608)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B080711	Used client sample: N										
Aldrin	MS	2016224-59	ND	0.019734	0.030000	ug/L		65.8		60 - 130	
	MSD	2016224-59	ND	0.018390	0.030000	ug/L	7.1	61.3	30	60 - 130	
gamma-BHC (Lindane)	MS	2016224-59	ND	0.023812	0.030000	ug/L		79.4		60 - 130	
	MSD	2016224-59	ND	0.022080	0.030000	ug/L	7.5	73.6	30	60 - 130	
4,4'-DDT	MS	2016224-59	ND	0.024840	0.030000	ug/L		82.8		60 - 130	
	MSD	2016224-59	ND	0.023340	0.030000	ug/L	6.2	77.8	30	60 - 130	
Dieldrin	MS	2016224-59	ND	0.023374	0.030000	ug/L		77.9		65 - 130	
	MSD	2016224-59	ND	0.021910	0.030000	ug/L	6.5	73.0	30	65 - 130	
Endrin	MS	2016224-59	ND	0.026812	0.030000	ug/L		89.4		60 - 130	
	MSD	2016224-59	ND	0.025286	0.030000	ug/L	5.9	84.3	30	60 - 130	
Heptachlor	MS	2016224-59	ND	0.020948	0.030000	ug/L		69.8		60 - 130	
	MSD	2016224-59	ND	0.019326	0.030000	ug/L	8.1	64.4	30	60 - 130	
TCMX (Surrogate)	MS	2016224-59	ND	0.041050	0.060000	ug/L		68.4		40 - 140	
	MSD	2016224-59	ND	0.037388	0.060000	ug/L	9.3	62.3		40 - 140	
Decachlorobiphenyl (Surrogate)	MS	2016224-59	ND	0.082406	0.12000	ug/L		68.7		50 - 130	
	MSD	2016224-59	ND	0.080436	0.12000	ug/L	2.4	67.0		50 - 130	

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Project Manager: Emil Angelo Rodriguez

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080591						
Acenaphthene	B080591-BLK1	ND	ug/L	1.0	0.22	
Acenaphthylene	B080591-BLK1	ND	ug/L	2.0	0.20	
Aldrin	B080591-BLK1	ND	ug/L	2.0	0.28	
Aniline	B080591-BLK1	ND	ug/L	5.0	1.8	
Anthracene	B080591-BLK1	ND	ug/L	2.0	0.20	
Benzidine	B080591-BLK1	ND	ug/L	5.3	3.0	
Benzo[a]anthracene	B080591-BLK1	ND	ug/L	2.0	0.30	
Benzo[b]fluoranthene	B080591-BLK1	ND	ug/L	2.0	0.42	
Benzo[k]fluoranthene	B080591-BLK1	ND	ug/L	2.0	0.29	
Benzo[a]pyrene	B080591-BLK1	ND	ug/L	2.0	0.21	
Benzo[g,h,i]perylene	B080591-BLK1	ND	ug/L	2.0	0.48	
Benzoic acid	B080591-BLK1	ND	ug/L	10	0.72	
Benzyl alcohol	B080591-BLK1	ND	ug/L	2.0	0.35	
Benzyl butyl phthalate	B080591-BLK1	ND	ug/L	2.0	0.26	
alpha-BHC	B080591-BLK1	ND	ug/L	2.0	0.36	
beta-BHC	B080591-BLK1	ND	ug/L	2.0	0.25	
delta-BHC	B080591-BLK1	ND	ug/L	2.0	0.28	
gamma-BHC (Lindane)	B080591-BLK1	ND	ug/L	2.0	0.32	
bis(2-Chloroethoxy)methane	B080591-BLK1	ND	ug/L	2.0	0.27	
bis(2-Chloroethyl) ether	B080591-BLK1	ND	ug/L	1.0	0.86	
bis(2-Chloroisopropyl)ether	B080591-BLK1	ND	ug/L	2.0	1.7	
bis(2-Ethylhexyl)phthalate	B080591-BLK1	ND	ug/L	3.0	0.20	
4-Bromophenyl phenyl ether	B080591-BLK1	ND	ug/L	2.0	0.20	
4-Chloroaniline	B080591-BLK1	ND	ug/L	2.0	0.39	
2-Chloronaphthalene	B080591-BLK1	ND	ug/L	2.0	0.23	
4-Chlorophenyl phenyl ether	B080591-BLK1	ND	ug/L	2.0	0.20	
Chrysene	B080591-BLK1	ND	ug/L	2.0	0.26	
4,4'-DDD	B080591-BLK1	ND	ug/L	2.0	0.40	
4,4'-DDE	B080591-BLK1	ND	ug/L	3.0	0.32	
4,4'-DDT	B080591-BLK1	ND	ug/L	2.0	0.26	
Dibenzo[a,h]anthracene	B080591-BLK1	ND	ug/L	3.0	0.59	
Dibenzofuran	B080591-BLK1	ND	ug/L	2.0	0.20	
1,2-Dichlorobenzene	B080591-BLK1	ND	ug/L	2.0	0.055	
1,3-Dichlorobenzene	B080591-BLK1	ND	ug/L	1.0	0.066	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080591						
1,4-Dichlorobenzene	B080591-BLK1	ND	ug/L	1.0	0.050	
3,3-Dichlorobenzidine	B080591-BLK1	ND	ug/L	5.0	0.41	
Dieldrin	B080591-BLK1	ND	ug/L	3.0	0.45	
Diethyl phthalate	B080591-BLK1	ND	ug/L	2.0	0.20	
Dimethyl phthalate	B080591-BLK1	ND	ug/L	2.0	0.25	
Di-n-butyl phthalate	B080591-BLK1	ND	ug/L	2.0	0.20	
2,4-Dinitrotoluene	B080591-BLK1	ND	ug/L	2.0	0.87	
2,6-Dinitrotoluene	B080591-BLK1	ND	ug/L	2.0	0.46	
Di-n-octyl phthalate	B080591-BLK1	ND	ug/L	2.0	0.31	
1,2-Diphenylhydrazine	B080591-BLK1	ND	ug/L	1.0	0.44	
Endosulfan I	B080591-BLK1	ND	ug/L	10	0.37	
Endosulfan II	B080591-BLK1	ND	ug/L	10	0.37	
Endosulfan sulfate	B080591-BLK1	ND	ug/L	3.0	0.37	
Endrin	B080591-BLK1	ND	ug/L	2.0	0.67	
Endrin aldehyde	B080591-BLK1	ND	ug/L	10	0.37	
Fluoranthene	B080591-BLK1	ND	ug/L	1.0	0.41	
Fluorene	B080591-BLK1	ND	ug/L	2.0	0.20	
Heptachlor	B080591-BLK1	ND	ug/L	2.0	0.22	
Heptachlor epoxide	B080591-BLK1	ND	ug/L	2.0	0.35	
Hexachlorobenzene	B080591-BLK1	ND	ug/L	1.0	0.23	
Hexachlorobutadiene	B080591-BLK1	ND	ug/L	1.0	0.078	
Hexachlorocyclopentadiene	B080591-BLK1	ND	ug/L	1.0	0.35	
Hexachloroethane	B080591-BLK1	ND	ug/L	1.0	0.057	
Indeno[1,2,3-cd]pyrene	B080591-BLK1	ND	ug/L	2.0	0.71	
Isophorone	B080591-BLK1	ND	ug/L	1.0	0.41	
2-Methylnaphthalene	B080591-BLK1	ND	ug/L	2.0	0.30	
Naphthalene	B080591-BLK1	ND	ug/L	1.0	0.068	
2-Naphthylamine	B080591-BLK1	ND	ug/L	20	1.7	
2-Nitroaniline	B080591-BLK1	ND	ug/L	2.0	0.36	
3-Nitroaniline	B080591-BLK1	ND	ug/L	2.0	0.52	
4-Nitroaniline	B080591-BLK1	ND	ug/L	5.0	0.85	
Nitrobenzene	B080591-BLK1	ND	ug/L	1.0	0.39	
N-Nitrosodimethylamine	B080591-BLK1	ND	ug/L	2.0	0.56	
N-Nitrosodi-N-propylamine	B080591-BLK1	ND	ug/L	2.0	0.56	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080591						
N-Nitrosodiphenylamine	B080591-BLK1	ND	ug/L	1.0	0.27	
Phenanthrene	B080591-BLK1	ND	ug/L	2.0	0.20	
Pyrene	B080591-BLK1	ND	ug/L	2.0	0.31	
1,2,4-Trichlorobenzene	B080591-BLK1	ND	ug/L	1.0	0.076	
4-Chloro-3-methylphenol	B080591-BLK1	ND	ug/L	1.0	0.42	
2-Chlorophenol	B080591-BLK1	ND	ug/L	2.0	0.85	
2,4-Dichlorophenol	B080591-BLK1	ND	ug/L	1.0	0.26	
2,4-Dimethylphenol	B080591-BLK1	ND	ug/L	1.0	0.30	
4,6-Dinitro-2-methylphenol	B080591-BLK1	ND	ug/L	5.0	0.43	
2,4-Dinitrophenol	B080591-BLK1	ND	ug/L	5.0	0.37	
2-Methylphenol	B080591-BLK1	ND	ug/L	2.0	0.55	
3- & 4-Methylphenol	B080591-BLK1	ND	ug/L	2.0	0.72	
Total Methylphenol	B080591-BLK1	ND	ug/L	4.0	1.3	
2-Nitrophenol	B080591-BLK1	ND	ug/L	2.0	0.39	
4-Nitrophenol	B080591-BLK1	ND	ug/L	2.0	0.66	
Pentachlorophenol	B080591-BLK1	ND	ug/L	1.0	0.43	
Phenol	B080591-BLK1	ND	ug/L	1.0	0.84	
2,4,5-Trichlorophenol	B080591-BLK1	ND	ug/L	5.0	0.36	
2,4,6-Trichlorophenol	B080591-BLK1	ND	ug/L	5.0	0.34	
2-Fluorophenol (Surrogate)	**B080591-BLK1**	**59.1**	%	**36 - 98 (LCL - UCL)**		
Phenol-d5 (Surrogate)	**B080591-BLK1**	**39.6**	%	**10 - 89 (LCL - UCL)**		
Nitrobenzene-d5 (Surrogate)	**B080591-BLK1**	**91.4**	%	**59 - 122 (LCL - UCL)**		
2-Fluorobiphenyl (Surrogate)	**B080591-BLK1**	**88.1**	%	**44 - 138 (LCL - UCL)**		
2,4,6-Tribromophenol (Surrogate)	**B080591-BLK1**	**140**	%	**51 - 139 (LCL - UCL)**		**S09**
p-Terphenyl-d14 (Surrogate)	**B080591-BLK1**	**109**	%	**23 - 173 (LCL - UCL)**		

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B080591										
Acenaphthene	B080591-BS1	LCS	45.610	50.000	ug/L	91.2		44 - 180		
1,4-Dichlorobenzene	B080591-BS1	LCS	49.800	50.000	ug/L	99.6		56 - 130		
2,4-Dinitrotoluene	B080591-BS1	LCS	57.030	50.000	ug/L	114		62 - 151		
Hexachlorobenzene	B080591-BS1	LCS	55.670	50.000	ug/L	111		44 - 167		
Hexachlorobutadiene	B080591-BS1	LCS	42.170	50.000	ug/L	84.3		34 - 120		
Hexachloroethane	B080591-BS1	LCS	49.810	50.000	ug/L	99.6		47 - 129		
Nitrobenzene	B080591-BS1	LCS	57.610	50.000	ug/L	115		62 - 148		
N-Nitrosodi-N-propylamine	B080591-BS1	LCS	49.220	50.000	ug/L	98.4		51 - 145		
Pyrene	B080591-BS1	LCS	55.780	50.000	ug/L	112		10 - 202		
1,2,4-Trichlorobenzene	B080591-BS1	LCS	50.560	50.000	ug/L	101		54 - 132		
4-Chloro-3-methylphenol	B080591-BS1	LCS	48.470	50.000	ug/L	96.9		10 - 207		
2-Chlorophenol	B080591-BS1	LCS	44.810	50.000	ug/L	89.6		61 - 132		
2-Methylphenol	B080591-BS1	LCS	44.350	50.000	ug/L	88.7		55 - 138		
3- & 4-Methylphenol	B080591-BS1	LCS	76.780	100.00	ug/L	76.8		10 - 262		
Total Methylphenol	B080591-BS1	LCS	ND		ug/L			0 - 200		
4-Nitrophenol	B080591-BS1	LCS	18.070	50.000	ug/L	36.1		16 - 103		
Pentachlorophenol	B080591-BS1	LCS	44.790	50.000	ug/L	89.6		17 - 193		
Phenol	B080591-BS1	LCS	21.790	50.000	ug/L	43.6		10 - 84		
2,4,6-Trichlorophenol	B080591-BS1	LCS	50.610	50.000	ug/L	101		55 - 154		
2-Fluorophenol (Surrogate)	B080591-BS1	LCS	24.850	40.000	ug/L	62.1		36 - 98		
Phenol-d5 (Surrogate)	B080591-BS1	LCS	17.230	40.000	ug/L	43.1		10 - 89		
Nitrobenzene-d5 (Surrogate)	B080591-BS1	LCS	39.210	40.000	ug/L	98.0		59 - 122		
2-Fluorobiphenyl (Surrogate)	B080591-BS1	LCS	37.490	40.000	ug/L	93.7		44 - 138		
2,4,6-Tribromophenol (Surrogate)	B080591-BS1	LCS	60.320	40.000	ug/L	151		51 - 139		S09
p-Terphenyl-d14 (Surrogate)	B080591-BS1	LCS	23.240	20.000	ug/L	116		23 - 173		

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B080591	Used client sample: N										
Acenaphthene	MS	1310670-17	ND	38.897	50.000	ug/L		77.8		41 - 196	
	MSD	1310670-17	ND	42.256	50.000	ug/L	8.3	84.5	23	41 - 196	
1,4-Dichlorobenzene	MS	1310670-17	ND	39.188	50.000	ug/L		78.4		57 - 126	
	MSD	1310670-17	ND	45.116	50.000	ug/L	14.1	90.2	28	57 - 126	
2,4-Dinitrotoluene	MS	1310670-17	ND	51.565	50.000	ug/L		103		53 - 162	
	MSD	1310670-17	ND	53.219	50.000	ug/L	3.2	106	30	53 - 162	
Hexachlorobenzene	MS	1310670-17	ND	49.208	50.000	ug/L		98.4		49 - 161	
	MSD	1310670-17	ND	52.164	50.000	ug/L	5.8	104	26	49 - 161	
Hexachlorobutadiene	MS	1310670-17	ND	31.632	50.000	ug/L		63.3		38 - 113	
	MSD	1310670-17	ND	38.437	50.000	ug/L	19.4	76.9	30	38 - 113	
Hexachloroethane	MS	1310670-17	ND	37.161	50.000	ug/L		74.3		52 - 121	
	MSD	1310670-17	ND	44.840	50.000	ug/L	18.7	89.7	29	52 - 121	
Nitrobenzene	MS	1310670-17	ND	50.925	50.000	ug/L		102		61 - 146	
	MSD	1310670-17	ND	55.242	50.000	ug/L	8.1	110	29	61 - 146	
N-Nitrosodi-N-propylamine	MS	1310670-17	ND	42.690	50.000	ug/L		85.4		10 - 172	
	MSD	1310670-17	ND	46.854	50.000	ug/L	9.3	93.7	30	10 - 172	
Pyrene	MS	1310670-17	ND	51.100	50.000	ug/L		102		25 - 196	
	MSD	1310670-17	ND	54.084	50.000	ug/L	5.7	108	29	25 - 196	
1,2,4-Trichlorobenzene	MS	1310670-17	ND	40.973	50.000	ug/L		81.9		55 - 128	
	MSD	1310670-17	ND	47.975	50.000	ug/L	15.7	96.0	30	55 - 128	
4-Chloro-3-methylphenol	MS	1310670-17	ND	43.378	50.000	ug/L		86.8		10 - 211	
	MSD	1310670-17	ND	46.578	50.000	ug/L	7.1	93.2	25	10 - 211	
2-Chlorophenol	MS	1310670-17	ND	38.431	50.000	ug/L		76.9		54 - 136	
	MSD	1310670-17	ND	41.667	50.000	ug/L	8.1	83.3	28	54 - 136	
2-Methylphenol	MS	1310670-17	ND	38.237	50.000	ug/L		76.5		27 - 153	
	MSD	1310670-17	ND	41.211	50.000	ug/L	7.5	82.4	28	27 - 153	
3- & 4-Methylphenol	MS	1310670-17	ND	66.610	100.00	ug/L		66.6		40 - 216	
	MSD	1310670-17	ND	71.944	100.00	ug/L	7.7	71.9	28	40 - 216	
Total Methylphenol	MS	1310670-17	ND	ND		ug/L				0 - 200	
	MSD	1310670-17	ND	ND		ug/L			200	0 - 200	
4-Nitrophenol	MS	1310670-17	ND	17.130	50.000	ug/L		34.3		14 - 100	
	MSD	1310670-17	ND	17.651	50.000	ug/L	3.0	35.3	30	14 - 100	
Pentachlorophenol	MS	1310670-17	ND	39.692	50.000	ug/L		79.4		23 - 184	
	MSD	1310670-17	ND	40.717	50.000	ug/L	2.5	81.4	27	23 - 184	
Phenol	MS	1310670-17	ND	18.711	50.000	ug/L		37.4		10 - 80	
	MSD	1310670-17	ND	20.748	50.000	ug/L	10.3	41.5	28	10 - 80	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B080591	Used client sample: N										
2,4,6-Trichlorophenol	MS	1310670-17	ND	44.494	50.000	ug/L		89.0		37 - 180	
	MSD	1310670-17	ND	47.224	50.000	ug/L	6.0	94.4	30	37 - 180	
2-Fluorophenol (Surrogate)	MS	1310670-17	ND	21.563	40.000	ug/L		53.9		36 - 98	
	MSD	1310670-17	ND	23.266	40.000	ug/L	7.6	58.2		36 - 98	
Phenol-d5 (Surrogate)	MS	1310670-17	ND	14.986	40.000	ug/L		37.5		10 - 89	
	MSD	1310670-17	ND	16.150	40.000	ug/L	7.5	40.4		10 - 89	
Nitrobenzene-d5 (Surrogate)	MS	1310670-17	ND	34.396	40.000	ug/L		86.0		59 - 122	
	MSD	1310670-17	ND	35.920	40.000	ug/L	4.3	89.8		59 - 122	
2-Fluorobiphenyl (Surrogate)	MS	1310670-17	ND	32.495	40.000	ug/L		81.2		44 - 138	
	MSD	1310670-17	ND	34.067	40.000	ug/L	4.7	85.2		44 - 138	
2,4,6-Tribromophenol (Surrogate)	MS	1310670-17	ND	54.844	40.000	ug/L		137		51 - 139	
	MSD	1310670-17	ND	55.622	40.000	ug/L	1.4	139		51 - 139	
p-Terphenyl-d14 (Surrogate)	MS	1310670-17	ND	21.456	20.000	ug/L		107		23 - 173	
	MSD	1310670-17	ND	22.268	20.000	ug/L	3.7	111		23 - 173	

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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080352						
Total Cyanide	B080352-BLK1	ND	mg/L	0.0050	0.0017	
QC Batch ID: B080362						
Total Sulfide	B080362-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: B080386						
Ammonia as N (Distilled)	B080386-BLK1	ND	mg/L	0.20	0.067	

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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B080352										
Total Cyanide	B080352-BS1	LCS	0.14181	0.15000	mg/L	94.5		90 - 110		
QC Batch ID: B080362										
Total Sulfide	B080362-BS1	LCS	0.47419	0.50000	mg/L	94.8		90 - 110		
QC Batch ID: B080386										
Ammonia as N (Distilled)	B080386-BS1	LCS	1.8571	2.0000	mg/L	92.9		85 - 115		

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Project: Cerritos
Project Number: N040965: SFPP Norwalk
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 RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B080352	Used client sample: N										
Total Cyanide	DUP	2017199-01	0.050970	0.050370		mg/L	1.2		10		
	MS	2017199-01	0.050970	0.15752	0.10000	mg/L		107		90 - 110	
	MSD	2017199-01	0.050970	0.15786	0.10000	mg/L	0.2	107	10	90 - 110	
QC Batch ID: B080362	Used client sample: Y - Description: EFF-06-11-20, 06/11/2020 13:15										
Total Sulfide	DUP	2017340-01	ND	ND		mg/L			10		
	MS	2017340-01	ND	0.48174	0.50000	mg/L		96.3		80 - 120	
	MSD	2017340-01	ND	0.49307	0.50000	mg/L	2.3	98.6	10	80 - 120	
QC Batch ID: B080386	Used client sample: N										
Ammonia as N (Distilled)	DUP	2016737-01	0.61179	0.58017		mg/L	5.3		20		
	MS	2016737-01	0.61179	2.8448	2.3166	mg/L		96.4		80 - 120	
	MSD	2016737-01	0.61179	2.9708	2.3166	mg/L	4.3	102	20	80 - 120	

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

Reported: 07/10/2020 16:31
Project: Cerritos
Project Number: N040965: SFPP Norwalk
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
A10	Detection and quantitation limits were raised due to matrix interference.
L01	The Laboratory Control Sample Water (LCSW) recovery is not within laboratory established control limits.
S09	The surrogate recovery for this compound was not within the control limits.

Eric Davis
Jacobs
2600 Michelson Drive, Suite 500
Irvine, CA 92612

June 29, 2020

Eric:

I have enclosed our report “Chronic Toxicity Testing of the SFPP Norwalk Pump Station Effluent” for the samples collected on June 8, 11, and 12, 2020. Test results are summarized as follows:

Test Species	Test Material	IWC	Test Endpoint	Percent (%) Effect	TST Analysis
Fathead Minnows	Effluent	100% Effluent	Survival	2.6% Effect	Pass
			Growth	-19.7% Effect	Pass

If you have any questions regarding the current test results, please feel free to contact me at (707) 207-7760.

Sincerely,

Jessica Okutsu
Project Manager

Cc: Ryan Koch, Kinder Morgan Energy Partners

Chronic Toxicity Testing of the SFPP Norwalk Pump Station Effluent

Samples collected June 8, 11, and 12, 2020

Prepared For

Jacobs
2600 Michelson Drive, Suite 500
Irvine, CA 92612

Prepared By

Pacific EcoRisk
2250 Cordelia Road
Fairfield, CA 94534

June 2020

PACIFIC ECORISK
ENVIRONMENTAL CONSULTING & TESTING

Chronic Toxicity Testing of the SFPP Norwalk Pump Station Effluent

Samples collected June 8, 11, and 12, 2020

Table of Contents

Appendices

1. INTRODUCTION

Jacobs has contracted Pacific EcoRisk (PER) to evaluate the chronic toxicity of the SFPP Norwalk Pump Station (SFPP Norwalk) effluent. The current evaluation consisted of performing USEPA's 7-day survival and growth test with fathead minnow, using samples of effluent collected on June 8, 11, and 12, 2020. In order to assess the sensitivity of the test organisms to toxic stress, a reference toxicant test was also performed. This report describes the performance and results of these tests.

2. TOXICITY TEST PROCEDURES

The performance of these tests followed the guidelines established by the USEPA manual "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Fourth Edition" (EPA-821-R-02-013).

2.1 Sample Receipt and Handling

On June 8, 11, and 12, samples of SFPP Norwalk effluent were collected into appropriately cleaned sample containers. These samples were transported on ice and under chain-of-custody to the PER laboratory in Fairfield, CA. Upon receipt at the laboratory, aliquots of each sample were collected for analysis of initial water quality characteristics (Table 1), with the remainder of the samples stored at 0-6°C except when being used to prepare test solutions. The chain-of-custody records for the collection and delivery of these samples are presented in Appendix A.

Table 1. Initial water quality characteristics of the samples.

Sample Receipt Date	Sample ID	Temp (˚C)	pH	D.O. (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Conductivity (µS/cm)	Total Ammonia (mg/L N)
6/9/20	EFF-06-08-20	3.6	7.36	7.9	288	552	2284	<1.0
6/12/20	EFF-06-11-20	2.8	7.25	7.8	239	474	2306	<1.0
6/13/20	EFF-06-12-20	0.5	7.31	7.1	307	581	2257	<1.0

2.2 Chronic Toxicity Testing with Fathead Minnows

The chronic toxicity test with fathead minnows consists of exposing larval fish to the effluent for seven days, after which effects on survival and growth are evaluated. The specific procedures used in this test are described below.

The larval fathead minnows used in this test were obtained from a commercial supplier (Aquatox, Hot Springs, AR). These fish were maintained at 25˚C in aerated aquaria containing

EPA synthetic moderately-hard water prior to their use in this test. During this pre-test period, the fish were fed brine shrimp nauplii *ad libitum.*

The Lab Water Control medium for this test consisted of US EPA synthetic moderately-hard water. The effluent was tested at the 100% concentration only. "New" water quality characteristics (pH, D.O., and conductivity) were measured on these test solutions prior to use in the test.

There were four replicates at each test treatment, each replicate consisting of 200 mL of test solution in a 600-mL glass beaker. This test was initiated by randomly allocating 10 larval fathead minnows (<48 hours old) into each replicate. The replicate beakers were placed in a temperature-controlled room at 25˚C, under cool-white fluorescent lighting on a 16L:8D photoperiod. The test fish were fed brine shrimp nauplii twice daily.

Each day of the test, fresh test solutions were prepared and characterized as before. The test replicate beakers were examined, with any dead animals, uneaten food, wastes, and other detritus being removed. The number of live fish in each replicate was determined and then approximately 80% of the test media in each beaker was carefully poured out and replaced with fresh test solution. "Old" water quality characteristics (pH, D.O., and conductivity) were measured on the test solution that had been discarded from one randomly-selected replicate at each treatment.

After seven days exposure, the number of live fish in each replicate beaker was recorded. The fish from each replicate were then carefully euthanized in methanol, rinsed in de-ionized water, and transferred to a pre-dried and pre-tared weighing pan. These fish were then dried at 100˚C for >24 hours and re-weighed to determine the total weight of fish in each replicate. The total weight was then divided by the initial number of fish per replicate to determine the biomass value. The resulting survival and biomass value data were analyzed to evaluate any potential impairment caused by the effluent. All statistical analyses were performed using CETIS.

2.3 Reference Toxicant Testing of the Fathead Minnows

The reference toxicant test was performed similarly to the effluent test except that test solutions consisted of Lab Water Control medium spiked with NaCl at test concentrations of 0.75, 1.5, 3, 6, and 9 g/L. The resulting test response data were analyzed to determine key dose-response point estimates. All statistical analyses were made using CETIS. These response endpoints were then compared to the typical response ranges established by the mean ± 2 SD of the point estimates generated by the most recent previous reference toxicant tests performed by this lab.

3. RESULTS

3.1 Chronic Toxicity of SFPP Norwalk Effluent to Fathead Minnows

The results of this test are summarized in Table 2. There was no reduction in survival or growth; the TST analysis resulted in a pass for both endpoints. The test data and summary of statistical analyses for this test are presented in Appendix B.

Table 2. Chronic toxicity of SFPP Norwalk effluent to fathead minnows.

Effluent Treatment	Mean % Survival	Mean Fish Biomass Value (mg)
Lab Water Control	95.0	0.82
100% Effluent	92.5	0.98
Summary of Statistics		
Percent (%) Effect =	2.6%	-19.7%
TST Analysis =	Pass	Pass

3.2 Reference Toxicant Toxicity to Fathead Minnows

The results of this test are summarized in Table 3. The EC_{50} and IC_{50} for this test were consistent with the typical response ranges established by the reference toxicant test database for this species, indicating that these organisms were responding to toxic stress in a typical and consistent fashion. The test data and summary of statistical analyses for this test are presented in Appendix C.

Table 3. Reference toxicant testing: Effects of NaCl on fathead minnows.

NaCl Treatment (g/L)	Mean % Survival	Mean Fish Biomass Value (mg)
Lab Water Control	100	0.95
0.75	97.5	1.11
1.5	82.5	1.04
3.0	**42.5***	0.28
6.0	**47.5***	0.19
9.0	**0***	-
Summary of Statistics		
Survival EC_{50} or Growth IC_{50} =	3.33 g/L NaCl	2.53 g/L NaCl

* The response at this test treatment was significantly less than the Lab Water Control treatment response ($p < 0.05$).

4. SUMMARY AND CONCLUSIONS

An evaluation of the chronic toxicity of SFPP Norwalk effluent was performed using samples collected on June 8, 11, and 12, 2020. Test results are summarized as follows:

Test Species	Test Material	IWC	Test Endpoint	Percent (%) Effect	TST Analysis
Fathead Minnows	Effluent	100% Effluent	Survival	2.6% Effect	Pass
			Growth	-19.7% Effect	Pass

4.1 QA/QC Summary

Test Conditions – All test conditions (pH, D.O., temperature, etc.) were within acceptable limits. All analyses were performed according to laboratory Standard Operating Procedures.

Negative Control – The biological responses for the test organisms at the Lab Control treatments were within acceptable limits.

Positive Lab Control – The reference toxicant test results were consistent with the typical response ranges established by the reference toxicant test database, indicating that these test organisms were responding to toxic stress in a typical fashion.

Concentration Response Relationships – The concentration-response relationship for the reference toxicant test was evaluated as per EPA guidelines (EPA-821-B-00-004), and was determined to be acceptable.

Appendix A

Chain-of-Custody Records for the Collection and Delivery of the Samples

Pacific EcoRisk
2250 Cordelia Rd.
Fairfield, CA 94534
Tel: 707-207-7760 Fax: 707-207-7916
Jessica Okutsu (jokutsu@pacificecorisk.com

CHAIN OF CUSTODY RECORD

DATE: 6-8-20
PAGE: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Section D Sampler Information:
Company: **Kinder Morgan Energy Partners** **Attention: Ryan Koch**	Report To: Eric Davis	Attention: Ryan Koch - Ref. AFE# 81195	Sampler Name: Nils Orliczky
Address: 1001 Louisiana St., Houston, TX 77002	Copy To: Ryan Koch	Company Name: Kinder Morgan Energy Partners	Sampler Signature:
Email To: Ryan_Koch@kindermorgan.com eric.davis@kindermorgan.com; nils.orliczky@kindermorgan.com	Purchase Order No.:	Address: 1001 Louisiana St., Houston, TX 77002	Sample Date: 6-8-20
Phone 713-420-6730 Fax 714-560-4801	Project Name: **SFPP Norwalk**	P.Eco Project Manager: Jessica Okutsu	

Section E
Required Sample Information

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G=GRAB C=COMP)	SAMPLING DATE	SAMPLING TIME	TOTAL # OF CONTAINERS	Analysis Test: Topsmelt (Atherinops affinis) (Survival and Growth Test Method 1006)	Fat head Minnow) (Survival and Growth Test Method 1000)	Comments
	CONTAINER TYPE						P			
	# OF CONTAINERS						1			
	PRESERVATIVE						--			
	VOLUME (Gallon)						1			
1	EFF-06-08-20	EFFLUENT	W	C	6-8-20	1030	1		X	
2										
3										
4										
5										
6										
7										
8										
9										
10										

Relinquished by (Signature and Printed Name):	Date / Time	Received Relinquished by (Signature and Printed Name):	Date / Time
	6/8/20/1205		6/9/20 1030
Relinquished by (Signature and Printed Name):	Date / Time	Relinquished by (Signature and Printed Name):	Date / Time
Relinquished by (Signature and Printed Name):	Date / Time	Relinquished by (Signature and Printed Name):	Date / Time

Turn Around Time (TAT):
- A = Same Day
- B = 24 Hours
- C = 48 Hours
- D = 72 Hours
- E = 5 Workdays
- E = 10 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00 PM.

Special Instruction:

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

9/25

Pacific EcoRisk
2250 Cordelia Rd.
Fairfield, CA 94534
Tel 707-207-7760 Fax 707-207-7916
Jessica Okutsu (jokutsu@pacificecorisk.com

CHAIN OF CUSTODY RECORD

DATE: 6-11-20
PAGE: 1 of 1

Section A Required Client Information:		Section B Required Project Information:	Section C Invoice Information:		Section D Sampler Information:	
Company: Kinder Morgan Energy Partners Attention: Ryan Koch		Report To: Eric Davis	Attention:	Ryan Koch - Ref. AFE# 81195	Sampler Name:	Nils Orliczky
Address: 1001 Louisiana St., Houston, TX 77002		Copy To: Ryan Koch	Company Name:	Kinder Morgan Energy Partners	Sampler Signature:	
Email To: Ryan_Koch@kindermorgan.com eric.davis@jacobs.com; nils.orliczky@jacobs.com		Purchase Order No.:	Address:	1001 Louisiana St., Houston, TX 77002	Sample Date:	6-11-20
Phone 713-420-6730	Fax 714-560-4801	Project Name: SFPP Norwalk	P.Eco Project Manager:	Jessica Okutsu		

Section E Required Sample Information

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G=GRAB C=COMP)	SAMPLING DATE	SAMPLING TIME	TOTAL # OF CONTAINERS	Analysis Test	Topsmelt (Atherinops affinis) (Survival and Growth Test Method 1006)	Fat head Minnow) (Survival and Growth Test Method 1000)	Comments
CONTAINER TYPE										P	
# OF CONTAINERS										1	
PRESERVATIVE										--	
VOLUME (Gallon)										1	
1	EFFLUENT	EFFLUENT	W	C	6-11-20	1130	1			X	
2	@6-11-20										
3											
4											
5											
6											
7											
8											
9											
10											

10/25

Relinquished by (Signature and Printed Name):	Date / Time	Relinquished by (Signature and Printed Name):	Date / Time
Nils Orliczky	6-11-20 1630		6/12/20 1220
Relinquished by (Signature and Printed Name):	Date / Time	Relinquished by (Signature and Printed Name):	Date / Time
Relinquished by (Signature and Printed Name):	Date / Time	Relinquished by (Signature and Printed Name):	Date / Time

Turn Around Time (TAT):
- A = Same Day
- B = 24 Hours
- C = 48 Hours
- D = 72 Hours
- E = 5 Workdays
- E = 10 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00 PM.

Special Instruction:

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

Pacific EcoRisk
2250 Cordelia Rd.
Fairfield, CA 94534
Tel 707-207-7760 Fax: 707-207-7916
Jessica Okutsu (Jokutsu@pacificecorisk.com

CHAIN OF CUSTODY RECORD
DATE: 6-12-20
PAGE: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Section D Sampler Information:	
Company:	Kinder Morgan Energy Partners Attention: Ryan Koch	Report To:	Eric Davis	Attention:	Ryan Koch - Ref. AFE# 81195	Sampler Name:	Nils Orliczky
Address:	1001 Louisiana St., Houston, TX 77002	Copy To:	Ryan Koch	Company Name:	Kinder Morgan Energy Partners	Sampler Signature:	[signature]
Email To:	Ryan_Koch@kindermorgan.com eric.davis@jacobs.com; nils.orliczky@jacobs.com	Purchase Order No.:		Address:	1001 Louisiana St., Houston, TX 77002	Sample Date:	6-12-20
Phone 713-420-6730	Fax 714-560-4801	Project Name:	**SFPP Norwalk**	P.Eco Project Manager:	Jessica Okutsu		

Section E
Required Sample Information

CONTAINER TYPE							P	
# OF CONTAINERS							1	
PRESERVATIVE							--	
VOLUME (Gallon)							1	

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G=GRAB C=COMP)	SAMPLING DATE	SAMPLING TIME	TOTAL # OF CONTAINERS	Analysis Test	Topsmelt (Atherinops affinis) (Survival and Growth Test Method 1006)	Fat head Minnow) (Survival and Growth Test Method 1000)	Comments
1	EFF-06-12-20	EFFLUENT	W	C	6-12-20	1145	1			X	
2											
3											
4											
5											
6											
7											
8											
9											
10											

6-12-20 [initials]

11/25

Relinquished by (Signature and Printed Name):	Date / Time	Relinquished by (Signature and Printed Name):	Date / Time
[signature] Nils Orliczky	6-12-20 1230	[signature]	6/13/20 1515

Turn Around Time (TAT):
- A = Same Day
- B = 24 Hours
- C = 48 Hours
- D = 72 Hours
- E = 5 Workdays
- E = 10 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00 PM.

Special Instruction:

Matrix:		
W = Water	WW = Wastewater	
O = Oil	P = Product	S = Soil
Others/Specify:		

Preservatives:		
H = HCl	N = HNO3	S = H2SO4
Z = Zn(AC)2	O = NaOH	T = Na2S2O3
Others/Specify:		

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

Appendix B

Test Data and Summary of Statistics for the Evaluation of the Chronic Toxicity of SFPP Norwalk Effluent to Fathead Minnows

CETIS Summary Report

Chronic Larval Fish Survival and Growth Test — **Pacific EcoRisk**

Batch ID:	07-2801-1734	**Test Type:**	Growth-Survival (7d)	**Analyst:**	Jessica Okutsu	
Start Date:	09 Jun-20 16:49	**Protocol:**	EPA-821-R-02-013 (2002)	**Diluent:**	Not Applicable	
Ending Date:	16 Jun-20 10:40	**Species:**	Pimephales promelas	**Brine:**	Not Applicable	
Test Length:	6d 18h	**Taxon:**	Actinopterygii	**Source:**	Aquatox, AR	**Age:** 1

Sample ID:	16-8861-8803	**Code:**	Effluent	**Project:**	30892
Sample Date:	08 Jun-20 10:30	**Material:**	Effluent	**Source:**	SFPP Norwalk Station
Receipt Date:	09 Jun-20 10:30	**CAS (PC):**		**Station:**	EFF-06-08-20
Sample Age:	30h (3.6 °C)	**Client:**	Jacobs		

Single Comparison Summary

Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result	S
04-0114-6967	7d Survival Rate	TST-Welch's t Test	0.0109	100% passed 7d survival rate	1
13-0286-1992	Mean Dry Biomass-mg	TST-Welch's t Test	0.0003	100% passed mean dry biomass-mg	1

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LW	4	0.950	0.858	1.040	0.900	1.000	0.029	0.058	6.08%	0.00%
100		4	0.925	0.773	1.080	0.800	1.000	0.048	0.096	10.35%	2.63%

Mean Dry Biomass-mg Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LW	4	0.822	0.689	0.954	0.718	0.889	0.0417	0.0833	10.14%	0.00%
100		4	0.984	0.862	1.1	0.89	1.06	0.0381	0.0762	7.75%	-19.72%

7d Survival Rate Detail — MD5: 6FEECB766B7ED11B8386A08530D06F9F

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	LW	0.900	1.000	1.000	0.900
100		0.900	0.800	1.000	1.000

Mean Dry Biomass-mg Detail — MD5: 0851DE146B8135A87A4FE2FFBB9ABDF2

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	LW	0.718	0.889	0.889	0.79
100		0.955	0.89	1.03	1.06

7d Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	LW	9/10	10/10	10/10	9/10
100		9/10	8/10	10/10	10/10

CETIS Analytical Report

Chronic Larval Fish Survival and Growth Test — Pacific EcoRisk

Analysis ID:	04-0114-6967	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.9.7
Analyzed:	18 Jun-20 18:02	**Analysis:**	Parametric Bioequivalence-Two Sample	**Status Level:**	1
Edit Date:	18 Jun-20 18:00	**MD5 Hash:**	6FEECB766B7ED11B8386A08530D06F9F	**Editor ID:**	004-996-743-9

Data Transform	Alt Hyp	TST_b	Comparison Result
Angular (Corrected)	C*b < T	0.75	100% passed 7d survival rate endpoint

TST-Welch's t Test

Control	vs	Conc-%	Test Stat	Critical	DF	P-Type	P-Value	Decision(α:25%)
Lab Water Contr		100*	3.65	0.741	4	CDF	0.0109	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.0025169	0.0025169	1	0.165	0.6984	Non-Significant Effect
Error	0.0913448	0.0152241	6			
Total	0.0938616		7			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Variance Ratio F Test	2.44	47.5	0.4832	Equal Variances
Distribution	Shapiro-Wilk W Normality Test	0.877	0.645	0.1747	Normal Distribution

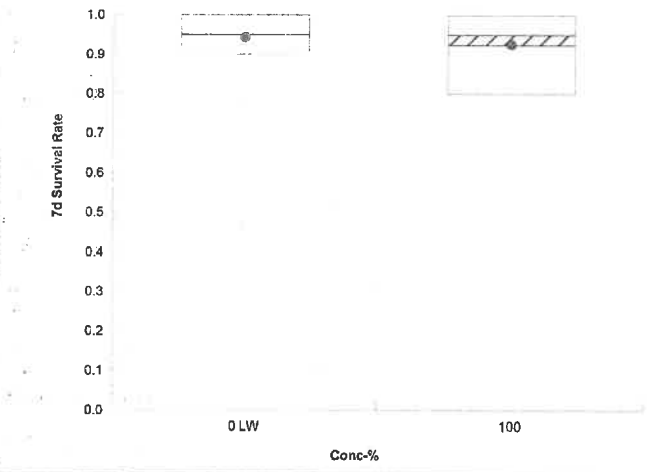
7d Survival Rate Summary

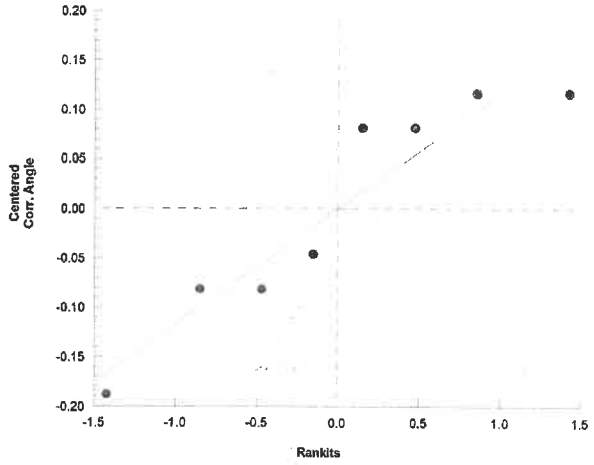
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LW	4	0.950	0.858	1.000	0.950	0.900	1.000	0.029	6.08%	0.00%
100		4	0.925	0.773	1.000	0.950	0.800	1.000	0.048	10.35%	2.63%

Angular (Corrected) Transformed Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LW	4	1.330	1.180	1.480	1.330	1.250	1.410	0.047	7.07%	0.00%
100		4	1.300	1.060	1.530	1.330	1.110	1.410	0.074	11.35%	2.67%

Graphics





Chronic Larval Fish Survival and Growth Test

Pacific EcoRisk

Analysis ID:	13-0286-1992	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.9.7
Analyzed:	18 Jun-20 18:02	**Analysis:**	Parametric Bioequivalence-Two Sample	**Status Level:**	1
Edit Date:	18 Jun-20 18:00	**MD5 Hash:**	0851DE146B8135A87A4FE2FFBB9ABDF2	**Editor ID:**	004-996-743-9

Data Transform	Alt Hyp	TST_b	Comparison Result
Untransformed	C*b < T	0.75	100% passed mean dry biomass-mg endpoint

TST-Welch's t Test

Control	vs	Conc-%	Test Stat	Critical	DF	P-Type	P-Value	Decision(α:25%)
Lab Water Contr		100*	7.46	0.727	5	CDF	0.0003	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.0524882	0.0524882	1	8.24	0.0284	Significant Effect
Error	0.038234	0.0063723	6			
Total	0.0907221		7			

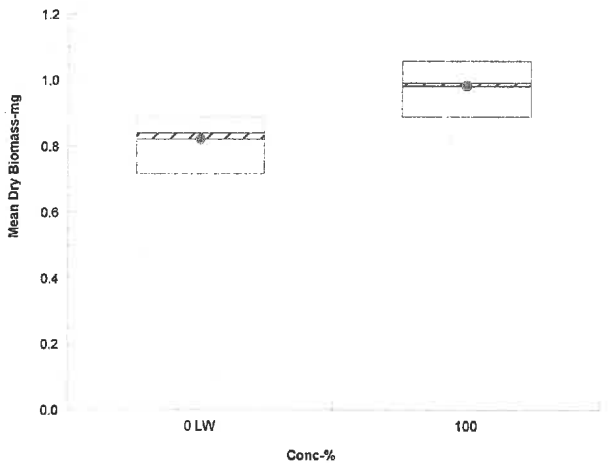
ANOVA Assumptions Tests

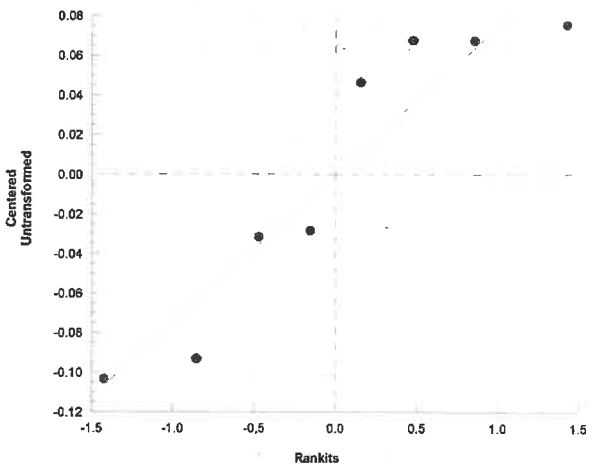
Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Variance Ratio F Test	1.2	47.5	0.8869	Equal Variances
Distribution	Shapiro-Wilk W Normality Test	0.855	0.645	0.1070	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LW	4	0.822	0.689	0.954	0.84	0.718	0.889	0.0417	10.14%	0.00%
100		4	0.984	0.862	1.1	0.993	0.89	1.06	0.0381	7.75%	-19.72%

Graphics





7 Day Chronic Fathead Minnow Toxicity Test Data

Client: Jacobs: SFPP Norwalk
Organism Log#: 12156
Age: <48hr
Test Material: Effluent
Organism Supplier: Aquatox
Test ID#: 85914 Project #: 30892
Control/Diluent: EPAMH
Test Date: 6/9/20 Randomization: 4.2.1
Control Water Batch: 2276

Test Treatment	Temp (°C)	pH new	pH old	D.O. (mg/L) new	D.O. (mg/L) old	Conductivity (µS/cm)	# Live Organisms A	B	C	D	SIGN-OFF
Lab Water Control	24.4	8.12		8.8		297	10	10	10	10	Date: 6/9/20; Test Solution Prep: [illegible]
100%	24.6	7.43		7.6		2237	10	10	10	10	Sample ID: 56340; Initiation Time: 1649
Meter ID	116A	PH24		RD13		EC13	New WQ: BT				Initiation Signoff: [illegible]
Lab Water Control	26.1 ~~24.8~~	7.95	7.77	8.8	6.9	302	9	10	10	9	Date: 6/10/20; Test Solution Prep: TF
100%	26.0 ~~24.8~~	7.40	8.39	8.5	7.3	2289	10	9	10	10	Sample ID: 56340; Renewal Time: 1415
Meter ID	97A	PH24	PH24	RD10	RD10	EC11	New WQ: BJ		Old WQ: KP		Renewal Signoff: [illegible]
Lab Water Control	25.7	7.77	7.69	8.7	7.3	348	9	10	10	9	Date: 6/11/20; Test Solution Prep: KL
100%	25.7	7.38	8.45	8.7	7.6	2259	9	9	10	10	Sample ID: 56340; Renewal Time: 1611
Meter ID	49A	pH 24	PH24	RD13	RD13	EC13	New WQ: DKB		Old WQ: DKB		Renewal Signoff: KG
Lab Water Control	24.9	7.97	7.42	8.7	7.8	321	9	10	10	9	Date: 6/12/20; Test Solution Prep: JL
100%	25.5	7.25	8.30	8.0	6.7	2213	9	9	10	10	Sample ID: 56383; Renewal Time: 1406
Meter ID	105A	ph 26	PH26	RD14	RD13	EC14	New WQ: [illegible]		Old WQ: MB		Renewal Signoff: [illegible]
Lab Water Control	25.0	7.81	7.52	8.2	6.7	311	9	10	10	9	Date: 6/13/20; Test Solution Prep: TK
100%	25.1	7.42	8.29	7.4	6.8	2302	9	8	10	10	Sample ID: 56387 (TK 6/13/20); Renewal Time: 1700
Meter ID	99A	PH24	PH26	RD10	RD13	EC11	New WQ: TK		Old WQ: EG		Renewal Signoff: TK
Lab Water Control	25.3	8.03	7.72	8.3	7.8	305	9	10	10	9	Date: 6/14/20; Test Solution Prep: [illegible]
100%	25.7	7.43	8.29	8.2	7.9	2222	9	8	10	10	Sample ID: 56387; Renewal Time: 1105
Meter ID	116A	PH26	PH26	RD12	RD10	EC13	New WQ: KG		Old WQ: NMN		Renewal Signoff: [illegible]
Lab Water Control	25.9	7.98	7.86	8.3	6.0	301	9	10	10	9	Date: 6/15/20; Test Solution Prep: [illegible]
100%	25.6	7.57	8.33	8.3	6.2	2216	9	8	10	10	Sample ID: 56387; Renewal Time: 1340
Meter ID	59A	PH24	PH24	RD12	RD12	EC12	New WQ: KL		Old WQ: KL		Renewal Signoff: KL
Lab Water Control	25.8		7.89		5.1	325	9	10	10	9	Date: 6/16/20; Termination Time: 1040
100%	25.7		8.37		4.9	2466	9	8	10	10	Termination Signoff: [illegible]
Meter ID	[illegible]		PH24		RD12	EC12			Old WQ: NMN		

Fathead Minnow Dry Weight Data Sheet

Client: **Jacobs: SFPP Norwalk** Test ID #: 85914 Project #: 30892

Test Material: Effluent Tare Weight Date: 6/15/20 Sign-off:

Test Date: 6/9/20 Final Weight Date: 6/18/20 Sign-off:

Pan ID	Treatment	Replicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
1	Lab Water	A	402.95	410.13	10	
2	Control	B	405.24	414.13	10	
3		C	414.28	423.17	10	
4		D	407.80	415.70	10	
5	100%	A	409.93	419.48	10	
6		B	404.61	413.51	10	
7		C	406.27	416.57	10	
8		D	414.64	425.23	10	
QA 1			413.13	413.13		
Balance ID:			Bal 04	Bal 04		

Appendix C

Test Data and Summary of Statistics for the Reference Toxicant Evaluation of the Fathead Minnows

Chronic Larval Fish Survival and Growth Test

Pacific EcoRisk

Batch ID:	00-1683-4495	**Test Type:**	Growth-Survival (7d)	**Analyst:**	Jessica Okutsu		
Start Date:	02 Jun-20 15:22	**Protocol:**	EPA-821-R-02-013 (2002)	**Diluent:**	Laboratory Water		
Ending Date:	09 Jun-20 09:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable		
Test Length:	6d 18h	**Taxon:**	Actinopterygii	**Source:**	Aquatox, AR	**Age:**	1

Sample ID:	03-1961-1237	**Code:**	NaCl	**Project:**	31678		
Sample Date:	02 Jun-20 15:22	**Material:**	Sodium chloride	**Source:**	Reference Toxicant		
Receipt Date:	02 Jun-20 15:22	**CAS (PC):**		**Station:**	In House		
Sample Age:	--- (24.1 °C)	**Client:**	Reference Toxicant				

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	✓	NOEL	LOEL	TOEL	PMSD	S
06-7878-6785	7d Survival Rate	Steel Many-One Rank Sum Test		1.5	3	2.121	15.8%	1
08-0820-1081	Mean Dry Biomass-mg	Dunnett Multiple Comparison Test		1.5	>1.5	---	17.7%	1

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	✓	Level	g/L	95% LCL	95% UCL	S
09-8370-9540	7d Survival Rate	GLM: Log-Normal (Probit)		EC5	0.841	0.404	1.26	1
			✓	EC10	1.14	0.625	1.61	
			✓	EC15	1.4	0.835	1.9	
			✓	EC20	1.65	1.05	2.19	
			✓	EC25	1.89	1.27	2.47	
				EC40	2.69	1.99	3.45	
				EC50	3.33	2.56	4.33	
19-4016-0172	Mean Dry Biomass-mg	Linear Interpolation (ICPIN)		IC10	1.71	1.22	1.74	1
				IC15	1.81	1.47	1.86	
				IC20	1.91	1.63	1.98	
				IC25	2.02	1.77	2.1	
			✓	IC40	2.33	2.11	2.47	
			✓	IC50	2.53	2.37	2.71	

7d Survival Rate Summary

Conc-g/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LW	4	1.000	1.000	1.000	1.000	1.000	0.000	0.000	---	0.00%
0.75		4	0.975	0.895	1.050	0.900	1.000	0.025	0.050	5.13%	2.50%
1.5		4	0.825	0.472	1.180	0.500	1.000	0.111	0.222	26.88%	17.50%
3		4	0.425	0.345	0.505	0.400	0.500	0.025	0.050	11.76%	57.50%
6		4	0.475	0.203	0.747	0.300	0.700	0.085	0.171	35.95%	52.50%
9		4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	---	100.00%

Mean Dry Biomass-mg Summary

Conc-g/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LW	4	0.951	0.779	1.12	0.831	1.1	0.0543	0.109	11.42%	0.00%
0.75		4	1.11	0.969	1.26	1.02	1.24	0.0455	0.091	8.16%	-17.10%
1.5		4	1.04	0.843	1.24	0.863	1.15	0.0626	0.125	12.01%	-9.51%
3		4	0.285	0.16	0.41	0.208	0.378	0.0392	0.0785	27.51%	70.02%
6		4	0.194	0.021	0.368	0.099	0.348	0.0545	0.109	56.06%	79.56%
9		4	0	0	0	0	0	0	0	---	100.00%

Chronic Larval Fish Survival and Growth Test — Pacific EcoRisk

7d Survival Rate Detail MD5: 72BFF9692FC8541FE4906A2CA6D40292

Conc-g/L	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	LW	1.000	1.000	1.000	1.000
0.75		1.000	1.000	0.900	1.000
1.5		1.000	0.900	0.500	0.900
3		0.400	0.400	0.500	0.400
6		0.500	0.400	0.300	0.700
9		0.000	0.000	0.000	0.000

Mean Dry Biomass-mg Detail MD5: 6AB04D3ADCDD3FBA82F1498B01EEFDF

Conc-g/L	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	LW	0.831	0.943	0.937	1.1
0.75		1.24	1.11	1.09	1.02
1.5		1.15	1.1	0.863	1.06
3		0.208	0.234	0.378	0.321
6		0.191	0.14	0.099	0.348
9		0	0	0	0

7d Survival Rate Binomials

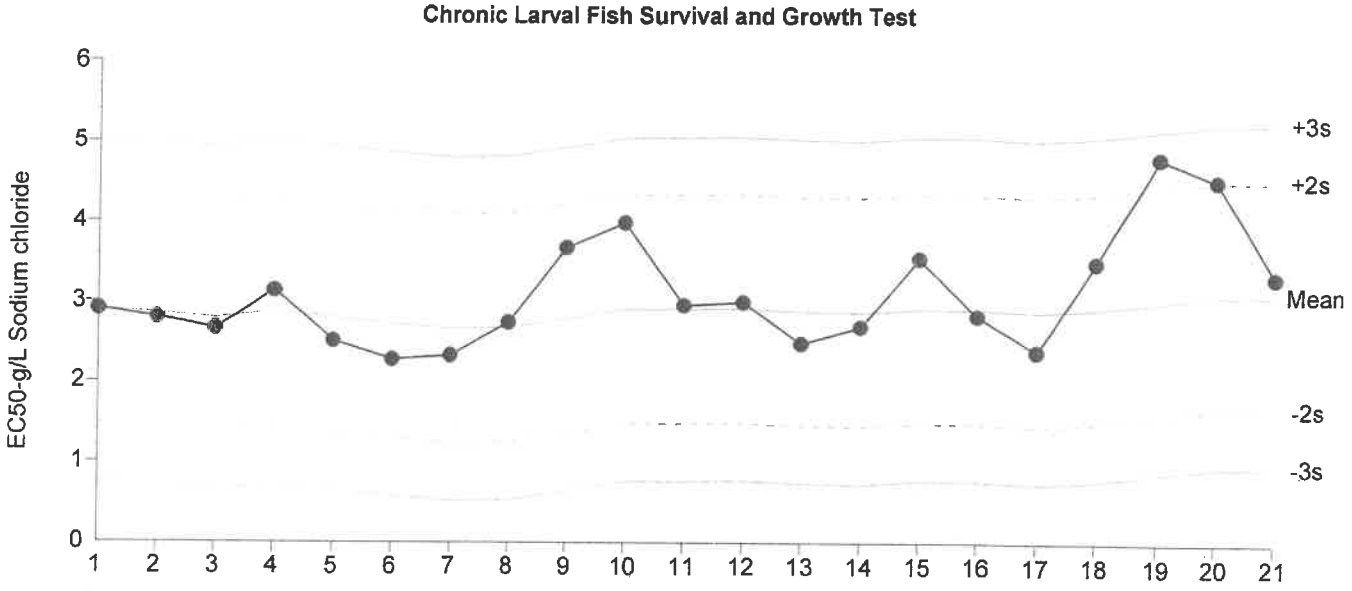
Conc-g/L	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	LW	10/10	10/10	10/10	10/10
0.75		10/10	10/10	9/10	10/10
1.5		10/10	9/10	5/10	9/10
3		4/10	4/10	5/10	4/10
6		5/10	4/10	3/10	7/10
9		0/10	0/10	0/10	0/10

CETIS QC Plot

Report Date: 15 Jun-20 16:35 (1 of 1)

Chronic Larval Fish Survival and Growth Test — **Pacific EcoRisk**

Test Type:	Growth-Survival (7d)	**Organism:**	Pimephales promelas	**Material:**	Sodium chloride
Protocol:	EPA-821-R-02-013 (2002)	**Endpoint:**	7d Survival Rate	**Source:**	Reference Toxicant-REF



Mean:	3.085	**Count:**	20	**-2s Warning Limit:**	1.657	**-3s Action Limit:**	0.9428
Sigma:	0.7141	**CV:**	23.10%	**+2s Warning Limit:**	4.513	**+3s Action Limit:**	5.227

Quality Control Data

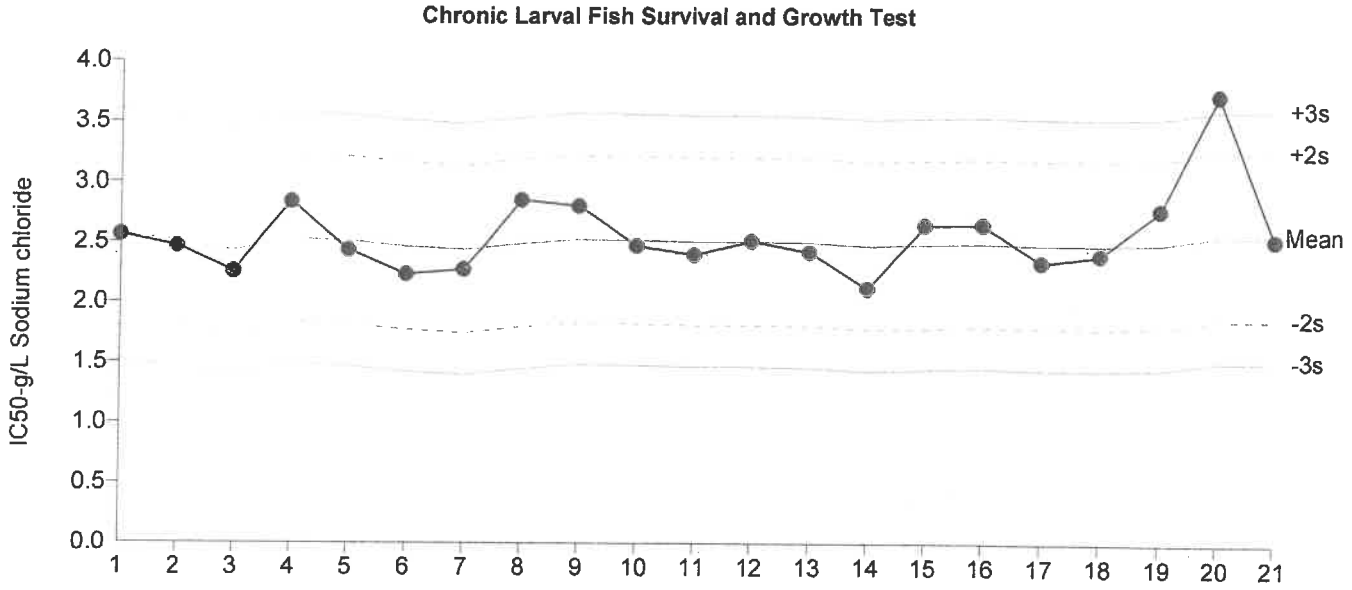
Point	Year	Month	Day	Time	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2019	Dec	19	15:35	2.911	-0.174	-0.2437			14-4008-9535	18-9829-3900
2	2020	Jan	7	15:49	2.8	-0.2846	-0.3985			09-3372-9656	05-7767-7606
3			17	15:35	2.662	-0.4231	-0.5925			09-6383-2429	02-8171-4035
4			21	16:07	3.14	0.05513	0.0772			04-5895-5184	01-4314-5694
5			28	16:19	2.506	-0.5786	-0.8102			10-2656-9072	13-0676-3308
6		Feb	4	15:45	2.271	-0.8136	-1.139			07-5207-8962	17-1105-7375
7			11	15:45	2.323	-0.7621	-1.067			11-6342-3559	04-8043-6352
8			18	16:35	2.736	-0.3488	-0.4884			05-6922-6532	16-1146-6754
9			25	15:10	3.676	0.5906	0.8271			04-6376-0414	10-1846-0675
10		Mar	3	16:25	3.984	0.8987	1.258			07-5431-8403	03-3829-5341
11			15	13:12	2.956	-0.1292	-0.1809			02-7467-2238	16-2478-5750
12			17	14:31	2.997	-0.08829	-0.1236			19-4103-4622	03-0307-7564
13			24	17:08	2.477	-0.6078	-0.8511			14-4553-7550	09-0117-6828
14		Apr	5	13:59	2.686	-0.3995	-0.5594			15-5071-0847	17-7660-3630
15			6	16:46	3.543	0.4576	0.6408			08-9230-1424	11-3238-8495
16			7	16:12	2.825	-0.2598	-0.3638			06-6312-9526	19-5399-6791
17			21	16:00	2.38	-0.7048	-0.987			05-7221-9973	17-0568-3938
18			28	16:28	3.494	0.409	0.5727			04-3426-4055	01-1476-2515
19		May	5	18:15	4.808	1.723	2.413	(+)		15-5695-2616	02-5217-9338
20			12	16:04	4.527	1.442	2.019	(+)		13-8888-7868	01-0869-4283
21		Jun	2	15:22	3.325	0.2401	0.3362			04-9377-2047	09-8370-9540

CETIS QC Plot

Report Date: 15 Jun-20 16:35 (1 of 1)

Chronic Larval Fish Survival and Growth Test — **Pacific EcoRisk**

Test Type:	Growth-Survival (7d)	**Organism:**	Pimephales promelas	**Material:**	Sodium chloride
Protocol:	EPA-821-R-02-013 (2002)	**Endpoint:**	Mean Dry Biomass-mg	**Source:**	Reference Toxicant-REF



Mean:	2.561	**Count:**	20	**-2s Warning Limit:**	1.865	**-3s Action Limit:**	1.517
Sigma:	0.348	**CV:**	13.60%	**+2s Warning Limit:**	3.257	**+3s Action Limit:**	3.605

Quality Control Data

Point	Year	Month	Day	Time	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2019	Dec	19	15:35	2.565	0.004212	0.0121			14-4008-9535	02-1184-5527
2	2020	Jan	7	15:49	2.468	-0.09284	-0.2668			09-3372-9656	13-1902-3612
3			17	15:35	2.256	-0.305	-0.8763			09-6383-2429	13-7973-0233
4			21	16:07	2.841	0.2804	0.8058			04-5895-5184	17-0240-1795
5			28	16:19	2.436	-0.1248	-0.3586			10-2656-9072	15-7658-1631
6		Feb	4	15:45	2.232	-0.3288	-0.9449			07-5207-8962	14-9080-0942
7			11	15:45	2.271	-0.2904	-0.8344			11-6342-3559	07-9763-5373
8			18	16:35	2.853	0.2918	0.8386			05-6922-6532	19-0345-0398
9			25	15:10	2.804	0.2426	0.6971			04-6376-0414	16-6772-0398
10		Mar	3	16:25	2.473	-0.08792	-0.2527			07-5431-8403	15-5824-1802
11			15	13:12	2.397	-0.1641	-0.4716			02-7467-2238	11-2209-6502
12			17	14:31	2.517	-0.04441	-0.1276			19-4103-4622	04-6098-3989
13			24	17:08	2.423	-0.1383	-0.3974			14-4553-7550	11-0886-6626
14		Apr	5	13:59	2.122	-0.4388	-1.261			15-5071-0847	02-9362-9775
15			6	16:46	2.649	0.08789	0.2526			08-9230-1424	06-9164-1602
16			7	16:12	2.654	0.09286	0.2668			06-6312-9526	02-7345-1758
17			21	16:00	2.337	-0.2238	-0.643			05-7221-9973	13-8151-9647
18			28	16:28	2.398	-0.163	-0.4685			04-3426-4055	13-1911-5089
19		May	5	18:15	2.783	0.222	0.638			08-7597-1649	20-8868-7015
20			12	16:04	3.735	1.174	3.372	(+)	(+)	13-8888-7868	15-8662-2608
21		Jun	2	15:22	2.535	-0.026	-0.07472			04-9377-2047	19-4016-0172

7 Day Chronic Fathead Minnow Reference Toxicant Test Data

Client: **Reference Toxicant** Organism Log#: 12142 Age: C48 Hrs
Test Material: Sodium Chloride Organism Supplier: Aquatox
Test ID#: 88202 Project #: 31678 Control/Diluent: EPAMH
Test Date: 6/2/20 Randomization: 4.6-3 Control Water Batch: 2274

Treatment (g/L)	Temp (°C)	pH New	pH Old	D.O. (mg/L) New	D.O. (mg/L) Old	Cond. (µs/cm) New	Cond. (µs/cm) Old	# Live Organisms A	B	C	D	SIGN-OFF
Control	24.1	7.86		8.6		298		10	10	10	10	Date: 6/2/20
0.75	24.1	7.92		8.6		1708		10	10	10	10	Test Solution Prep: TS
1.5	24.1	7.96		8.6		3144		10	10	10	10	New WQ: ID
3	24.0	7.98		8.6		5854		10	10	10	10	Initiation Time: 1522
6	24.0	7.93		8.6		11180		10	10	10	10	Initiation Signoff: TF
9	24.2	7.91		8.6		16120		10	10	10	10	RT Stock Batch #: 457
Meter ID	114A	PH24		RD13		EC13						
Control	25.1	8.06	7.54	8.7	7.2	296	326	10	10	10	10	Date: 6/3/20
0.75	25.1	8.09	7.54	8.7	7.1	1795	1741	10	10	9	10	Test Solution Prep: TS
1.5	25.1	8.08	7.51	8.8	6.6	3191	3202	10	10	9	10	New WQ: AFT
3	25.1	8.07	7.56	8.9	6.8	5868	5876	9	10	10	10	Renewal Time: 1458
6	25.1	7.91	7.55	9.1	7.0	11010	11160	10	10	10	10	Renewal Signoff:
9	25.1	7.95	7.55	9.4	7.4	16220	15910	0	0	0	0	Old WQ: ID
Meter ID	35A	PH25	PH24	RD12	RD13	EC12	EC13					RT Stock Batch #: 457
Control	24.7	7.74	7.85	8.4	7.3	300	348	10	10	10	10	Date: 6/4/20
0.75	24.8	7.90	7.78	8.5	7.1	1610	1901	10	10	9	10	Test Solution Prep: RG
1.5	24.7	7.89	7.67	8.5	7.0	3215	3306	10	10	9	10	New WQ: KP
3	24.9	7.88	7.67	8.5	7.0	5845	6006	8	10	10	10	Renewal Time: 1645
6	24.8	7.84	7.65	8.5	7.1	11140	11460	10	8	10	10	Renewal Signoff:
9	—	—	—	—	—	—	—	—	—	—	—	Old WQ: KP
Meter ID	113A	PH26	PH26	RD10	RD12	EC14	EC14					RT Stock Batch #: 458
Control	25.4	7.89	7.68	8.8	7.7	310	314	10	10	10	10	Date: 6/5/20
0.75	25.4	7.86	7.67	8.7	7.9	1764	1677	10	10	9	10	Test Solution Prep: RG
1.5	25.5	7.89	7.61	8.8	7.6	3209	3286	10	10	9	10	New WQ:
3	25.4	7.86	7.60	8.8	8.0	6075	6011	8	10	10	10	Renewal Time: 1409
6	25.4	7.83	7.53	9.0	7.8	11340	11420	10	8	9	10	Renewal Signoff:
9	—	—	—	—	—	—	—	—	—	—	—	Old WQ: BS
Meter ID	99A	PH24	PH25	RD13	RD12	EC13	EC12					RT Stock Batch #: 458

7 Day Chronic Fathead Minnow Reference Toxicant Test Data

Client: **Reference Toxicant** Organism Log#: 12142 Age: <48 Hrs.
Test Material: Sodium Chloride Organism Supplier: Aquatox
Test ID#: 88202 Project #: 31678 Control/Diluent: EPAMH
Test Date: 6/2/20 Randomization: 4.6.3 Control Water Batch: 2274

Treatment (g/L)	Temp (°C)	pH new	pH old	D.O. (mg/L) new	D.O. (mg/L) old	Cond. (µs/cm) New	Cond. (µs/cm) Old	# Live Organisms A	B	C	D	SIGN-OFF
Control	25.7	7.90	7.55	8.4	6.8	316	343	10	10	10	10	Date: 6/6/20
0.75	25.6	7.94	7.55	8.4	6.8	11688	1766	10	10	10	10	Test Solution Prep: BV
1.5	25.4	7.94	7.51	8.5	6.8	3261	3288	10	10	6	10	New WQ: CD
3	25.1	7.92	7.54	8.6	6.9	5927	6155	7	9	9	10	Renewal Time: 1252
6	26.3	7.87	7.48	9.0	6.8	11140	11480	8	7	7	9	Renewal Signoff:
9	—	—	—	—	—	—	—	—	—	—	—	Old WQ: BV
Meter ID	99A	DH26	pH26	RD10	RD10	EC11	EC11					RT Stock Batch #: 458
Control	25.8	7.69	7.45	7.8	7.2	296	315	10	10	10	10	Date: 6/7/20
0.75	25.7	7.72	7.43	7.6	6.4	1668	1705	10	10	9	10	Test Solution Prep: KG
1.5	25.5	7.79	7.51	7.6	6.6	3172	3242	10	10	5	9	New WQ: NMN
3	25.4	7.86	7.53	7.7	6.7	5872	5970	7	8	7	4	Renewal Time: 1115
6	25.8	7.82	7.46	7.9	6.9	11040	11900	6	5	4	8	Renewal Signoff: KG
9	—	—	—	—	—	—	—	—	—	—	—	Old WQ: DKB
Meter ID	97A	PH24	pH26	RD14	RD13	EC14	EC13					RT Stock Batch #: 458
Control	26.3	8.22	7.95	8.9	7.4	303	310	10	10	10	10	Date: 6/8/20
0.75	26.2	8.16	7.85	8.9	7.2	1658	1727	10	10	9	10	Test Solution Prep: TK
1.5	26.3	8.11	7.79	9.0	7.3	3167	3246	10	9	5	9	New WQ: KG
3	26.1	8.05	7.75	9.1	7.3	5849	5955	4	4	5	4	Renewal Time: 1035
6	26.0	7.96	7.72	9.3	7.4	11000	11770	5	5	4	8	Renewal Signoff: TK
9	—	—	—	—	—	—	—	—	—	—	—	Old WQ: BV
Meter ID	114A	PH25	PH24	RD12	RD10	EC12	EC11					RT Stock Batch #: 468
Control	25.8		7.79		8.0		368	10	10	10	10	Date: 6/9/20
0.75	25.8		7.70		8.0		1721	10	10	9	10	Termination Time: 0900
1.5	25.9		7.72		7.7		3258	10	9	5	9	Termination Signoff: TK
3	25.8		7.68		7.8		5977	4	4	5	4	Old WQ: DKB
6	26.7		7.66		8.0		12720	5	4	3	7	
9	/		—		—		—	—	—	—	—	
Meter ID	114A		pH26		RD14		EC14					

Fathead Minnow Dry Weight Data Sheet

Client: **Reference Toxicant** Test ID #: 88202 Project #: 31678

Sample: Sodium Chloride Tare Weight Date: 6/8/20 Sign-off: YL

Test Date: 6/9/20 Final Weight Date: 6/15/20 Sign-off: SBB

Pan ID	Concentration (g/L)	Replicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
1	Control	A	407.56	415.87	10	
2		B	414.12	423.55	10	
3		C	412.94	422.31	10	
4		D	406.18	417.13	10	
5	0.75	A	415.22	427.59	10	
6		B	414.93	426.06	10	
7		C	406.62	417.50	10	
8		D	408.20	418.39	10	
9	1.5	A	416.20	427.70	10	
10		B	410.10	421.07	10	
11		C	406.36	414.99	10	
12		D	413.33	423.91	10	
13	3	A	412.92	415.00	10	
14		B	402.82	405.16	10	
15		C	413.38	417.16	10	
16		D	408.21	411.42	10	
17	6	A	411.18	413.09	10	
18		B	410.39	411.79	10	
19		C	408.66	409.65	10	
20		D	406.93	410.41	10	
21	9	A	—	—	10	
22		B	—	—	10	
23		C	—	—	10	
24		D	—	—	10	
QA1			416.88	416.90		
QA2			406.01	405.98		
QA3			414.32	414.32		
Balance ID:			Bal 04	Bal 04		

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 two normal effluent samples and two surface water samples. Samples were collected on May 21 and June 11, 2020. Analyses were performed by Asset Laboratories in Cerritos, California, American Environmental Testing Laboratory Inc. in Burbank, California, Eurofins TestAmerica in Irvine, California, LA Testing in South Pasadena, California, Pace Analytical in Minneapolis, Minnesota, Pacific Ecorisk in Fairfield, California and BC Laboratories in Bakersfield, California. The sample results were reported as two sample delivery groups:

Sample Delivery Groups
N040741
N040965

Twenty-four 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
Chronic Toxicity	EPA-821-R-02-013
pH and Temperature	SM4500-H+B
Turbidity	SM2130B
Total suspended solids	SM2540D
Settleable solids	SM2540F
Biochemical oxygen demand	SM5210B
Surfactants	SM5540C
Pesticides	EPA 608
Semi-volatile organic compounds	EPA 625
Oil and grease	E1664
Metals	EPA 200.7/EPA 200.8/EPA 245.1
Hexavalent chromium	SW7199
Hardness	SM2340B
Ammonia	SM4500NH3G

Parameter	Method
Cyanide	EPA 335
Sulfide	SM4500 S2-D
Nitrate and nitrite	EPA 300
Asbestos	EPA 600/R-94/134
2,3,7,8-TCDD	SW8290
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 with the exception of pH and temperature by Method SM4500-H+B for sample EFF-001-06-11-20. The holding time for these parameters is immediate. The results were qualified as estimated and flagged "J".

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. Two associated results were detected less than five times the blank concentrations and were qualified as not detected and flagged "U" in samples EFF-052120 and EFF-001-06-11-20.

- TPH-oil and total TPH were detected less than the RL in the method blanks for Method SW8015B. Two associated results were detected less than five times the blank concentrations and were qualified as not detected and flagged "U" in sample EFF-001-06-11-20.

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 exceptions:

- The recoveries of nickel and zinc were less than the lower control limit in the MS and MSD of sample EFF-001-06-11-20 for Method E200.8, indicating the associated parent sample results are possibly biased low. The associated nondetected nickel result was qualified as estimated and flagged "UJ"; the associated detected zinc result was qualified as estimated and flagged "J".

Chain-of-Custody

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

Overall Assessment

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