

REPORT

Third Quarter 2017
Remediation Progress Report
SFPP Norwalk Pump Station
Norwalk, California

Prepared for

Kinder Morgan Energy Partners, L.P.

October 13, 2017



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The material and data presented in this report were prepared consistent with current and generally accepted consulting principles and practices. This work was supervised by the following CH2M HILL Engineers, Inc. (CH2M) licensed professional.



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Acronyms and Abbreviations

1,2-DCA	1,2-dichloroethane
Air Tech	Air Technology Laboratories
Asset	Asset Laboratories
ASTM	ASTM International
BTEX	benzene, toluene, ethylbenzene, and total xylenes
CH2M	CH2M HILL Engineers, Inc.
EPA	U.S. Environmental Protection Agency
GWE	groundwater extraction
GWTS	groundwater treatment system
Kinder Morgan	Kinder Morgan Energy Partners, L.P.
LGAC	liquid-phase granular activated carbon
MTBE	methyl tertiary butyl ether
No.	number
O&M	operations and maintenance
OWS	oil-water separator
RTO	regenerative thermal oxidizer
Water Board	California Regional Water Quality Control Board, Los Angeles Region
scfm	standard cubic foot per minute
SFPP	SFPP, L.P.
SVE	soil vapor extraction
TBA	tertiary butyl alcohol
TFE	total fluids extraction
TPH	total petroleum hydrocarbons
TPH-d	total petroleum hydrocarbons quantified as diesel
TPH-g	total petroleum hydrocarbons quantified as gasoline
TPH-o	total petroleum hydrocarbons quantified as oil
TPH-total	total petroleum hydrocarbons quantified as gasoline, diesel, and oil
VOC	volatile organic compound
WSB	West Side Barrier

Introduction

CH2M HILL Engineers, Inc. (CH2M) prepared this report on behalf of SFPP, L.P. (SFPP), an operating partnership of Kinder Morgan Energy Partners, L.P. (Kinder Morgan), to summarize remediation activities performed at the former SFPP Norwalk Pump Station located within the Defense Fuel Support Point Norwalk, at 15306 Norwalk Boulevard, Norwalk, California (the site; Figure 1) during the third quarter 2017 reporting period.

This progress report is submitted pursuant to a request from the California Regional Water Quality Control Board, Los Angeles Region (Water Board) in its letter, dated October 25, 2006 (Water Board, 2006). Additional site background information can be found in the report titled, *Conceptual Site Model and Proposed Alternate Interim Remedy for Soil, Groundwater, and LNAPL* (CH2M, 2013), and in previously submitted semiannual groundwater monitoring reports.

This report summarizes the remediation systems present at the site and describes remediation activities for the period of July through September 2017 with documentation of the following tasks:

- Operations and maintenance (O&M) of remediation systems performed by Kinder Morgan field personnel
- Remediation system evaluation

The remediation activities performed from July through September 2017 and the progress achieved through those activities are summarized in the following sections.

Remediation Systems

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

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

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

- South-Central Area
 - 20 TFE wells
 - 24 onsite and 6 offsite SVE wells (most collocated with TFE wells)
 - 2 horizontal SVE wells
 - 1 horizontal biosparge well
- Southeastern Area (24-inch Block Valve Area)
 - 4 TFE wells (GMW-O-15, GMW-O-18, GMW-36, and GMW-SF-9)
 - 3 SVE wells (collocated with TFE wells)
 - 1 GWE well (GMW-SF-10)

A summary of remediation wells in the south-central, southeastern, and WSB areas is presented in Table 1. Table 1 includes well identifications, well construction details, well use, and operational status at the end of the third quarter 2017. The remediation system layout is shown on Figure 2. A brief description of each system is provided below.

Between the third quarter 2016 and the second quarter 2017, the valves and additional connections used to supply product to tanks at the site from the three Kinder Morgan pipelines were removed; the three pipelines (two 16-inch and one 24-inch) were routed along the southern border of the site. Removing these additional valves and fittings to make the pipelines run through the site in a continuous manner will prevent spills that could have occurred at those connections.

2.1 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 vapors. Accumulated moisture in the knock-out tank is treated by the main groundwater treatment system (GWTS) described below. The soil vapors are then treated in a regenerative thermal oxidizer (RTO) where VOCs are converted to carbon dioxide and water prior to being discharged to the atmosphere. Operation of the GWTS and SVE system is conducted in accordance with Permits to Operate (Permit Number [No.] G46188 A/N 578779 and No. G46187 A/N 578777) issued by the South Coast Air Quality Management District.

2.2 Groundwater Treatment System

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

2.3 Horizontal Biosparge System

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

The air sparge compressor delivers ambient air to the biosparge well at a maximum design rate of approximately 500 standard cubic feet per minute (scfm). The SVE system has an interlock that ensures the biosparge system cannot operate unless the SVE system is operating. Operation of the SVE system reduces the potential for offgassing of VOCs during biosparge operations. Pilot testing of the biosparge system commenced in early January 2016 and continued through October 2016. Soil vapor data collected as part of the pilot testing have been submitted to the Water Board and Restoration Advisory Board under separate covers. A comprehensive evaluation report that incorporates soil vapor and groundwater data was submitted to the Water Board in August 2017 (CH2M, 2017). The biosparge was restarted on June 27, 2017 after installation and start-up of the new RTO system.

Operations and Maintenance

During the third quarter 2017 reporting period, O&M of the remediation systems included the following tasks:

- Performed ongoing weekly maintenance on the GWTS.
- Removed, inspected, and repaired existing TFE/GWE pumps and associated discharge lines.
- Installed pumps and associated equipment necessary for TFE at select wells with measurable free product.
- Restarted the SVE system on September 7, 2017.

The remediation systems operated during the third quarter 2017 with the following exceptions:

- The RTO was shut down from September 1 to 7, 2017, for the soil vapor probe sampling (SVP-105 to SVP-109).
- The GWTS and SVE systems were shut down from September 26 through 30, 2017, to facilitate gauging and sampling activities for the second semiannual groundwater sampling event that was conducted on October 2 to 6, 2017.

During this reporting period, and when the system was operating, GWTS inspections were performed on a weekly basis. For these inspections, volumes of extracted groundwater, hours of operation, and other system parameters were recorded during system operation.

During the third quarter 2017, the GWTS was operational approximately 95 percent of the time (100 percent of the time excluding planned shutdowns). The SVE system was operational approximately 92 percent of the time (100 percent of the time excluding planned shutdowns). The biosparge system operated 89 percent of the time (100 percent of the time excluding planned shutdowns). Table 2 presents the SVE system operations summary. Extracted vapor analytical results for the third quarter 2017 are summarized in Table 3. The groundwater remediation system operation activities for the third quarter 2017 are summarized in Table 4. The extracted groundwater analytical results for the third quarter 2017 are summarized in Table 5. Table 6 presents the biosparge system operations summary. Historical (post-2007) gauging results of select TFE and SVE wells are provided in Table 7. Pre-2007 data can be found in previous semiannual groundwater monitoring reports.

Water samples from the GWTS influent were collected on July 20, August 3, and September 20, 2017, during the third quarter 2017. The water samples were delivered to Asset Laboratories (Asset) of Las Vegas, Nevada, for analysis. Asset is certified by the California Department of Public Health Environmental Laboratory Accreditation Program.

Asset analyzed the water samples for the following:

- Total petroleum hydrocarbons (TPH) quantified as gasoline (TPH-g), TPH quantified as diesel (TPH-d), and TPH quantified as oil (TPH-o) (collectively referred to as TPH-total) using U.S. Environmental Protection Agency (EPA) Method 8015(M)
- VOCs using EPA Method 8260B

Vapor samples from the SVE influent were collected on July 13, August 3, and September 12, 2017. The vapor samples were delivered to Air Technology Laboratories (Air Tech) of City of Industry, California, for analysis.

Air Tech analyzed the vapor samples for the following:

- Fixed gases (methane, carbon dioxide, oxygen, and argon) using ASTM International (ASTM) D1946
- VOCs using EPA Method TO-15
- Total VOCs using EPA Method TO-3

The laboratory analytical reports and chain-of-custody documents for these samples are included in Appendix A.

Summary of Remediation Progress

Based on weekly monitoring of the influent vapor concentration, vapor extraction flow rate, and hours of operation, the total mass of VOCs removed by SVE was 20,086 pounds during the third quarter 2017. Since SVE implementation in September 1995, the cumulative mass of VOCs removed was 3,502,762 pounds (Table 2). The cumulative mass removed by SVE does not include the mass removed by naturally occurring in situ biodegradation.

A total of 663,877 gallons of groundwater was extracted during the third quarter 2017 (Table 4). No water was extracted from the WSB area during the third quarter 2017. Approximately 101.4 million gallons of groundwater has been extracted from the south-central, southeastern, and WSB areas since GWTS operations first began in 1996.

GWE was discontinued in the WSB region during the third quarter 2008 based on the reduced lateral extent and low concentrations of MTBE and 1,2-dichloroethane (1,2-DCA) west of the site. 1,2-DCA, MTBE, and TBA concentrations in the western area during the semiannual groundwater monitoring event conducted in the second quarter 2017 did not warrant restarting the WSB system.

No free product accumulated in the product holding tank during the third quarter 2017. Since 1995, a total of 14,426 gallons of product has been removed by TFE, vacuum truck, or manual bailing operations. The estimated mass removal (pounds) of hydrocarbons by the GWTS is shown in Table 4. Mass removal estimates between 1996 and 2005 are based on benzene, toluene, ethylbenzene, and total xylene (BTEX) and MTBE concentrations in the groundwater influent (TPH data were not available) and total volume of extracted groundwater. Mass removal estimates between 2006 and 2011 are based on groundwater influent concentrations of TPH-g and TPH quantified as fuel product, and the total volume of extracted groundwater. Mass removal estimates between 2012 and 2017 are based on groundwater influent TPH-total concentrations (TPH-total includes TPH-g, TPH-d, and TPH-o) and the total volume of extracted groundwater. Since GWE first began in 1996, hydrocarbon mass removed by the GWTS is estimated to be 18,292 pounds. During the third quarter 2017, the mass removal of hydrocarbons was estimated to be 123 pounds. Table 5 shows the extracted groundwater analytical results for the samples collected on July 20, August 3, and September 20, 2017. TPH concentrations slightly increased from July 2017 to September 2017. However, the concentrations during the third quarter 2017 were less than the concentrations reported in late 2015, early 2016, and the second quarter 2017. This reduction in dissolved-phase hydrocarbon concentrations can be attributed to biosparge operations in the south-central area. BTEX and MTBE concentrations decreased during the third quarter 2017 as compared to first and second quarters of 2017.

The biosparge system operated for 1,887 hours in the third quarter 2017 (Table 6). The biosparge system flow (air injection) rate ranged from 218 to 747 scfm during the third quarter 2017. Soil vapor samples were collected from 15 locations around the southeastern biosparge well from July 26 to 28, 2017, and from August 15 to 18, 2017. Results of the soil vapor sampling will be included in the annual soil vapor monitoring report.

System Evaluation and Optimization

During the third quarter 2017, all offsite SVE well valves (except VEW-2) in the south-central area were fully open to ensure maximum vapor extraction from the offsite area. The SVE wells at the southeastern area are also fully open to ensure maximum vapor extraction.

The GWTS continued to operate during the third quarter 2017 for hydraulic control and product recovery in the south-central and southeastern areas. The GWTS was temporarily offline from September 26 to 30, 2017, to facilitate semiannual groundwater monitoring activities planned during the week of October 2, 2017.

Gauging results from the semiannual monitoring event performed in the second quarter 2017 are provided in Table 8. Historical (post-2007) gauging data for all TFE and SVE wells are also provided in the table. With the biosparge being inoperative from November 1, 2016 to June 27, 2017, free product has returned in a few of the groundwater wells in the south-central area, including well GMW-24 and offsite wells GMW-O-11, GMW-O-12, and MW-O-2 in the south-central area. The product thickness in these wells ranged from 0.06 feet (MW-O-2) to 4.20 feet (GMW-O-12), which is still significantly less than the historic highs in those wells. The substantial decline in measurable product in the south-central area, relative to the fourth quarter 2015 (pre-biosparge conditions) (SGI, 2016), is directly attributable to biosparge system operations that were performed in 2016. Biosparge system operation was restarted during the second quarter 2017 on June 27, 2017 and continued to operate during the third quarter 2017. Gauging of the TFE and SVE wells was not conducted during the third quarter 2017. Gauging of those wells and the second semiannual 2017 groundwater monitoring event, which includes the WSB region, will be performed during the fourth quarter 2017 (from October 2 to 6, 2017).

Planned Fourth Quarter 2017 Activities

During the fourth quarter 2017, Kinder Morgan plans to continue to focus remedial efforts on the south-central and southeastern areas. The following maintenance and other activities are planned to be completed during the fourth quarter 2017:

- Continue operation of SVE and the south-central horizontal biosparge system.
- Conduct one quarterly soil vapor monitoring event for all the soil vapor probes in the south-central and southeastern areas.
- Measure weekly VOC concentrations as hexane at the influent and effluent of the RTO system.
- Collect monthly vapor samples at the influent and effluent of the RTO system to be analyzed by TO-15 (VOCs), TO-3 (total VOCs as hexane), and ASTM-D 1946 (fixed gases).
- Continue weekly maintenance and monitoring of the south-central and southeastern SVE and TFE/GWE treatment systems, and the biosparge system.
- Measure quarterly individual well vapor concentrations with a photoionization detector at the manifold.
- Collect and analyze system influent vapor and groundwater samples.
- Perform as-needed carbon changeouts of the LGAC vessels.
- Perform as-needed monitoring and remediation well rehabilitation to remove biofouling and sediment occluding the well screens.
- Remove, inspect, and repair existing TFE/GWE pumps and associated discharge lines.
- Install pumps and associated equipment necessary for TFE at select wells with measurable free product.
- Continue to remove free product from wells without TFE pumps using manual bailing methods.

The TFE, GWE, and SVE systems for the south-central and southeastern areas will continue to operate. Operation of the TFE system in the southeastern area will be monitored closely and adjustments will be made to improve fluid recovery. System inspections will continue on a weekly basis; system evaluation parameters will be collected as needed. The remediation activities and progress for the fourth quarter 2017 will be described in the Fourth Quarter 2017 Remediation Progress Report, to be submitted by January 15, 2018.

Pilot testing of the horizontal biosparge system in the south-central area was completed during the fourth quarter 2016. A comprehensive evaluation report that incorporates soil vapor and groundwater data was submitted to the Water Board in August 2017 (CH2M, 2017). A recommendation for system expansion was included in the report, and an additional horizontal biosparge well will be installed in the southeast area in the fourth quarter 2017. The horizontal biosparge system will continue to operate at ideal air flow to decrease product thickness in the south-central area.

References

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Tables

Table 1. Remediation Well Construction and Status

SFPP Norwalk Pump Station, Norwalk, California

Remediation Area	Remediation Well ID	Installation Date	Top of Well Casing Elevation (feet msl)	Well Screen Interval (feet bgs)	Remediation Well Function	Well Operation Status at End of Third Quarter 2017	
						SVE/BS	TFE/GWE
South-Central	MW-SF-1	6/18/1990	78.93	25 - 40	SVE	ON	--
	MW-SF-2	6/18/1990	78.53	25 - 40	SVE; TFE	ON	OFF
	MW-SF-3	6/18/1990	78.12	25 - 40	SVE; TFE	ON	ON
	MW-SF-4	6/19/1990	79.38	25 - 40	SVE	ON	--
	MW-SF-5	9/19/1990	79.74	23 - 38	SVE	ON	--
	MW-SF-6	9/19/1990	76.80	25 - 40	SVE; TFE	ON	OFF
	MW-SF-9	6/15/1995	74.10	--	SVE	ON	--
	MW-SF-10	9/23/2003	76.53	10 - 30	SVE	ON	--
	MW-SF-11	6/19/2007	78.56	20 - 40	SVE; TFE	ON	OFF
	MW-SF-12	6/18/2007	78.07	20 - 40	SVE; TFE	ON	OFF
	MW-SF-13	6/19/2007	73.40	20 - 40	SVE; TFE	ON	OFF
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	ON	OFF
	MW-SF-15	6/21/2007	78.27	20 - 40	SVE; TFE	ON	ON
	MW-SF-16	6/20/2007	78.21	20 - 40	SVE; TFE	ON	OFF
	MW-SF-17	--	--	--	SVE	--	--
	GMW-9	7/8/1991	77.16	20 - 50	SVE; TFE	ON	ON
	GMW-10	7/8/1991	N/A	25 - 50	SVE; TFE	ON	ON
	GMW-22	8/2/1991	77.24	25 - 60	SVE; TFE	ON	OFF
	GMW-24	8/5/1991	77.48	25 - 60	SVE; TFE	ON	OFF
	GMW-25	1/10/1992	78.14	20 - 50	SVE; TFE	ON	OFF
	GWR-3	1/10/1992	77.60	20 - 50	SVE; TFE	ON	OFF
	VEW-1	09/19/90	--	5 - 25	SVE	ON	--
	VEW-2	09/19/90	--	5 - 25	SVE	OFF	--
	MW-O-1	1/22/1991	75.48	25 - 40	SVE; TFE	ON	OFF
	MW-O-2	1/23/1991	71.90	25 - 40	SVE; TFE	ON	OFF
	GMW-O-11	5/20/1992	74.17	20 - 50	SVE; TFE	ON	ON
	GMW-O-12	5/21/1992	73.49	20 - 50	SVE	ON	--
	GMW-O-20	6/15/1995	73.32	--	SVE; TFE	ON	ON
	GMW-O-21	10/1/1997	71.43	26 - 46	TFE	--	OFF
	GMW-O-23	6/25/2007	73.63	20 - 40	SVE; TFE	ON	OFF
	MW-18 (MID)	6/10/1991	75.67	50 - 60	SVE	ON	--
	HW-1	09/06/92	--	--	SVE	ON	--
	HW-2	09/06/92	--	--	SVE	ON	--
BS-01	08/27/14	75.06	--	BIOSPARGE	ON	--	
Southeastern	GMW-O-15	4/19/1994	74.23	20 - 50	SVE; TFE	ON	ON
	GMW-O-18	7/25/1994	74.36	21 - 40	SVE; TFE	ON	ON
	GMW-36	4/11/1994	76.66	20 - 50	SVE; TFE	ON	OFF
	GMW-SF-9	4/1/2003	73.05	37 - 46	TFE	--	ON
	GMW-SF-10	4/2/2003	75.77	37 - 46	TFE	--	--
West Side Barrier	BW-2	5/20/1996	73.57	27 - 47	GWE	--	OFF
	BW-3	5/17/1996	74.16	31 - 50	GWE	--	OFF
	BW-4	5/20/1996	74.61	28 - 47	GWE	--	OFF
	BW-5	5/23/1996	73.59	27 - 46	GWE	--	OFF
	BW-6	5/22/1996	73.48	28 - 47	GWE	--	OFF
	BW-7	5/22/1996	74.65	27 - 46	GWE	--	OFF
	BW-8	5/21/1996	75.08	27 - 46	GWE	--	OFF
	BW-9	5/21/1996	76.19	27 - 46	GWE	--	OFF

Notes:

-- = information not available or not applicable

BS = biosparge

feet bgs = feet below ground surface

feet msl = feet above mean sea level based on the National Geodetic Vertical Datum of 1929

GWE = groundwater extraction

SVE = soil vapor extraction

TFE = total fluids extraction

Table 2. Vapor Remediation System Operation Summary

SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Cumulative Hours of Operation (hours)	Incremental Hours of Operation (hours)	Influent PID Reading (ppmv as hexane)	System Flow (scfm)	Header Vacuum (in. H ₂ O)	Mass Removed (pounds) ^a
1995 Totals	1,240		--	--	--	281,065
1996 Totals	7,208	5,968	--	--	--	516,717
1997 Totals	12,865	5,657	--	--	--	489,526
1998 Totals	17,877	5,012	--	--	--	223,055
1999 Totals	23,600	5,723	--	--	--	390,836
2000 Totals	29,690	6,090	--	--	--	359,092
2001 Totals	33,671	3,981	--	--	--	224,091
2002 Totals	36,358	2,687	--	--	--	79,363
2003 Totals	39,676	3,319	--	--	--	64,671
2004 Totals	44,193	4,517	--	--	--	120,240
2005 Totals	49,750	5,557	--	--	--	212,175
2006 Totals	52,735	2,985	--	--	--	17,263
2007 Totals	58,319	2,058	--	--	--	7,378
2008 Totals	64,233	5,915	--	--	--	5,878
2009 Totals	68,858	4,625	--	--	--	9,387
2010 Totals	72,369	3,511	--	--	--	1,507
2011 Totals	77,489	5,120	--	--	--	14,629
2012 Totals	84,173	6,684	--	--	--	22,260
2013 Totals	90,414	6,241	--	--	--	90,880
2014 Totals	94,083	3,688	--	--	--	67,744
2015 Totals	98,408	4,325	--	--	--	122,706
2016 Totals	104,405	7,694	--	--	--	156,193
First Quarter 2017 Totals	104,405	--	--	--	--	--
6/7/2017	104,426	21	574	2062	50	319
6/13/2017	104,568	142	810	1395	50	1,634
6/20/2017	104,735	167	856	1419	50	2,130
6/23/2017	104,807	72	856	1312	50	1,086
6/27/2017	104,810	3	550	1212	50	19
6/30/2017	104,875	65	1,092	1231	52	833
Second Quarter 2017 Totals	104,875	470	--	--	--	6,022
7/5/2017	104,999	124	742	1380	51	1,080
7/10/2017	105,118	119	578	1442	50	807
7/13/2017	105,193	75	591	1318	50	520
7/20/2017	105,357	164	578	1240	50	1,621
7/25/2017	105,474	117	584	1523	50	1,158
7/28/2017	105,551	77	600	1533	50	792
8/3/2017	105,690	139	658	1535	50	1,635
8/8/2017	105,809	119	756	1479	50	1,587
8/15/2017	105,977	168	820	1444	50	2,437
8/22/2017	106,147	170	798	1528	50	2,262
8/29/2017	106,313	166	646	1447	49	1,791
9/7/2017	106,387	74	598	1662	50	739
9/12/2017	106,501	114	588	1523	50	1,141
9/19/2017	106,649	148	432	1469	52	1,090

Table 2. Vapor Remediation System Operation Summary

SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Cumulative Hours of Operation (hours)	Incremental Hours of Operation (hours)	Influent PID Reading (ppmv as hexane)	System Flow (scfm)	Header Vacuum (in. H ₂ O)	Mass Removed (pounds) ^a
9/26/2017	106,817	168	498	1486	50	1,426
Third Quarter 2017 Totals	106,817	1,942	--	--	--	20,086
Cumulative Totals	106,817	--	--	--	--	3,502,762

Notes:

^a The total mass removed is based on influent FID or PID readings, hours of operation, and flow rate.

-- = not applicable or not available

FID = flame ionization detector

in. H₂O = inches of water

PID = photoionization detector

ppmv = parts per million by volume

scfm = standard cubic feet per minute

TPH-g = total petroleum hydrocarbons quantified as gasoline (C4-C12)

Table 3. Extracted Vapor Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	ASTM D-1946			EPA TO-3		SCAQMD 25.1	EPA TO-15 (VOCs) ^b				
	Methane (%v)	Carbon Dioxide (%v)	Oxygen and Argon (%v)	TPH-g (ppmv)	TVOC (ppmv)	TGNMOC (ppmv)	Benzene (ppbv)	Ethylbenzene (ppbv)	Toluene (ppbv)	Xylenes (ppbv)	MTBE (ppbv)
8/3/2007	<0.5	<0.5	22.0	63	---	---	650	220	1,100	1,420	55
9/5/2007	<0.5	<0.5	22.0	9	---	---	32	48	140	320	18
10/2/2007	<0.5	<0.5	21.9	27	---	---	250	75	430	610	20
11/2/2007	<0.5	<0.5	22.1	5	---	---	40	10	74	95	7
2/1/2008	<0.5	<0.5	21.8	100	---	---	830	260	2,200	1,850	<50
3/4/2008	<0.5	<0.5	21.7	50	---	---	380	98	570	1,250	36
4/8/2008	<0.5	<0.5	22.2	69	---	---	290	110	480	1,040	41
5/23/2008	<0.5	<0.5	21.8	14	---	---	180	24	190	280	23
6/3/2008	<0.5	<0.5	21.7	30	---	---	380	42	400	330	70
7/2/2008	<0.5	<0.5	21.4	49	---	---	32	6	34	45	10
8/19/2008	<0.5	1.7	20.8	50	---	---	390	63	230	450	40
9/5/2008	<0.5	2.0	21.2	22	---	---	130	39	130	340	42
10/7/2008	<0.5	1.43	21.4	10	---	---	41	15	54	181	6.8
11/4/2008	<0.5	2.08	21.1	7.5	---	---	31	47	190	242	<2.0
3/6/2009	<0.5	<0.5	22.0	83	---	---	1,900	180	990	770	240
4/17/2009	<0.5	<0.5	22.2	3.1	---	---	140	8	37	68	26
5/29/2009	<0.5	1.08	21.0	130	---	---	1,700	640	3,700	3,100	100
8/18/2009	<0.5	0.78	21.7	28	---	---	380	37	290	310	33
8/25/2009	<0.5	0.87	20.6	37	---	---	500	44	320	293	20
9/18/2009	<0.5	0.37	21.6	11	---	---	75	11	39	107	3
10/29/2009	<0.5	1.80	18.2	77	---	---	350	45	250	440	4
11/25/2009	<0.5	<0.5	21.1	14	---	---	110	12	110	164	11
12/15/2009	<0.5	<0.5	21.7	7	---	---	28	3	20	47	<3.2
2/26/2010	<0.5	0.4	21.2	20	---	---	300	18	220	260	21
3/26/2010	<0.5	1.0	20.2	18	---	---	380	20	110	90	5
5/4/2010	<0.5	0.4	21.4	13	---	---	100	42	170	222	3
6/29/2010	<0.5	0.4	21.3	9	---	---	74	13	66	82	<5.0
8/3/2010	<0.5	0.6	20.4	29	---	---	210	13	64	85	9
8/31/2010	0.0039 ^c	<0.5	21.4	11	---	---	72	12	66	87	8
9/14/2010	<0.5	<0.5	21.6	6	---	---	63	15	57	84	<3.2
11/2/2010	--	--	--	11	---	---	140	<10	31	28	<10
11/17/2010	0.00075	0.4	22.0	--	---	---	--	--	--	--	--
12/28/2010	0.0052	0.27	22.0	16	---	---	160	37	230	324	4.5
1/14/2011	0.016	0.20	22.0	68	---	---	340	34	89	183	<10
2/8/2011	0.026	0.24	21.0	210	---	---	3,000	1,700	11,000	7,400	110
3/29/2011	0.013	0.13	20.0	5	---	---	170	15	18	41.5	<2.5
4/26/2011	0.0011	0.079	20.0	1.9	---	---	16	2.4	8.8	7.7	<1.2
5/17/2011	0.021	0.65	22.0	90	---	---	2,600	140	2,200	1,100	220
6/17/2011	0.001	0.20	22.0	3	---	---	59	8.1	31	56	<0.25
7/19/2011	0.0056	0.49	22.0	80	---	---	1,800	130	2,200	1,000	<31
8/16/2011	0.0026	0.31	22.0	140	---	---	3,000	600	4,000	2,330	490
9/20/2011	--	--	--	100	---	---	2,100	740.0	2,700	2,040	660
11/22/2011	0.070	0.70	20.0	11	---	---	150	12.0	67	35	<5.0
12/20/2011	0.020	0.34	22.0	0	---	---	110	<25	260	216	<25
1/10/2012	0.010	0.66	20.0	11	---	---	150	14	86	160	<12
2/28/2012	0.0067	0.90	20.0	27	---	---	140	42	140	224	<25
3/13/2012	0.0044	0.71	20.0	27	---	---	440	38	450	241	<25
4/27/2012	0.0290	0.22	21.0	39	---	---	540	42	630	299	<25
5/22/2012	0.0100	0.31	20.0	65	---	---	590	350	770	2,070	<12
6/19/2012	0.0028	0.41	21.0	17	---	---	130	26	150	162	<12
7/27/2012	0.0059	0.40	21.0	13	---	---	46	<5	33	78	<5
8/30/2012	0.0049	0.56	21.0	69	---	---	150	<25	66	194	<25
9/25/2012	0.0073	0.80	21.0	57	---	---	190	19	120	283	<2.5
10/30/2012	0.0099	0.96	21.0	50	---	---	380	<50	230	130	<5.0
12/11/2012	0.0074	0.84	21.0	53	---	---	130	17	110	173	<5.0

Table 3. Extracted Vapor Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	ASTM D-1946			EPA TO-3		SCAQMD 25.1	EPA TO-15 (VOCs) ^b				
	Methane (%v)	Carbon Dioxide (%v)	Oxygen and Argon (%v)	TPH-g (ppmv)	TVOC (ppmv)	TGNMOC (ppmv)	Benzene (ppbv)	Ethylbenzene (ppbv)	Toluene (ppbv)	Xylenes (ppbv)	MTBE (ppbv)
1/29/2013	0.0028	0.29	22.0	1.4	---	---	8.7	<1.2	9.4	9.6	<1.2
2/12/2013	0.0057	0.88	21.0	60	---	---	500	<50	440	400	<50
3/19/2013	0.0058	0.80	21.0	77	---	---	560	66	490	520	<40
4/16/2013	0.0079	0.74	21.0	53	---	---	430	29	240	193	<25
5/14/2013	0.017	1.6	19	280	---	---	1,700	190	1,800	840	<12
6/28/2013	0.0068	<0.010	21	22	---	---	190	<25	130	131	<25
SVE system down for repair from July 16, 2013, to September 17, 2013.											
9/20/2013	0.014	1	21	590	---	---	4,200	520	3,600	2,830	<40
10/15/2013	0.011	0.68	21	410	---	---	3,500	360	2,800	1,970	<20
11/12/2013	0.012	0.66	21	430	---	---	2,900	440	2,600	1,930	<15
12/10/2013	0.013	0.92	21	910	---	---	8,400	920	7,200	5,500	<50
1/17/2014	0.0077	0.57	21	350	---	---	6,600	6,800	8,200	23,300	3,000
2/11/2014	0.011	0.60	21	640	---	---	6,600	570	6,000	3,800	<100
3/21/2014	0.0050	0.40	21	390	---	---	4,500	290	4,000	1,930	<50
4/21/2014	0.011	0.65	21	700	---	---	6,900	370	6,900	3,400	<40
SVE system down for repair from April 29, 2014 to May 13, 2014.											
5/27/2014	0.011	0.56	21	530	---	---	6,600	570	8,900	3,820	<50
6/13/2014	0.0076	0.49	21	780	---	---	10,000	1,200	15,000	7,100	<80
SVE system down for repair and permit modification from July 1, 2014 to March 27, 2015.											
3/31/2015	0.090	1.3	20	1,400	---	1,300	12,000	1,000	11,000	7,400	<200
4/7/2015	0.014	0.56	21	---	---	710	8,200	8,200	610	3,260	<160
5/5/2015	---	---	---	---	---	760	6,100	1,100	9,600	7,200	<140
6/30/2015	0.0065	0.37	21	---	---	270	3,100	380	3,800	2,820	<160
7/14/2015	0.0094	0.62	21	---	---	650	7,000	950	7,900	6,100	<200
8/4/2015	0.0053	0.49	21	---	---	560	6,200	710	7,700	4,800	<0.097
8/17/2015 ^c	---	---	---	---	---	470	4,800	500	5,400	3,600	<0.099
8/17/2015 ^c	---	---	---	---	---	470	5,000	520	5,800	3,870	<0.100
8/17/2015 ^c	---	---	---	---	---	480	5,100	580	6,100	4,000	<0.097
8/17/2015 ^c	---	---	---	---	---	480	5,200	580	6,300	4,100	<0.099
9/1/2015 ^c	---	---	---	---	---	670	7,000	850	8,700	6,900	<0.097
9/1/2015 ^c	---	---	---	---	---	930	12,000	1,500	14,000	11,400	<0.140
9/1/2015 ^c	---	---	---	---	---	890	12,000	2,300	20,000	14,300	<0.140
10/6/2015	0.0067	0.43	21	---	---	960	14,000	3,100	25,000	15,900	<200
11/10/2015	0.0028	0.30	21	---	860	---	9,100	1,800	15,000	9,400	<97
12/10/2016	0.004	0.41	21	---	580	---	6,400	1,200	10,000	7,600	<120
1/4/2016 ^c	0.0059	0.27	22	---	750	---	9,600	2,400	20,000	13,500	<220
2/4/2016 ^c	0.0038	0.58	21	---	2,000	---	16,000	2,600	29,000	19,300	<610
3/3/2016 ^c	0.004	0.64	21	---	1,200	---	11,000	3,000	27,000	27,500	<130
4/5/2016	0.033	0.49	21	---	400	---	3,900	5,500	7,300	4,600	<63
5/13/2016	0.0034	0.50	21	---	290	---	2,200	300	4,300	810	<23
6/7/2016	0.0065	0.32	21	---	150	---	1,000	25 J	1,100	117 J	<36
7/7/2016	0.014	0.48	21	---	170	---	1,000	220	2,500	1,630	<51
8/2/2016	0.0047	0.54	21	---	260	---	1,900	720	5,000	7,400	<22
9/7/2016	0.0066	0.53	21	---	250	---	1,600	680	3,800	5,000	<21
10/13/2016	0.0096	0.67	21	---	250	---	2,700	680	3,800	5,200	<36
11/1/2016	0.0025	0.62	21	---	260	---	1,600	540	3,800	4,600	<40

Table 3. Extracted Vapor Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	ASTM D-1946			EPA TO-3		SCAQMD 25.1	EPA TO-15 (VOCs) ^b				
	Methane (%v)	Carbon Dioxide (%v)	Oxygen and Argon (%v)	TPH-g (ppmv)	TVOC (ppmv)	TGNMOC (ppmv)	Benzene (ppbv)	Ethylbenzene (ppbv)	Toluene (ppbv)	Xylenes (ppbv)	MTBE (ppbv)
6/7/2017	0.029	1.1	21	--	190	--	960	220	1,200	1,170	<42
7/13/2017	0.055	1.3	20	---	550	---	220	1,100	6,600	9,900	<44
8/3/2017	0.013	0.85	21	---	340	--	4,200	750	5,600	7,500	<110
9/12/2017	0.0079	0.89	21	--	290	---	3,000	530	4,600	5,500	510

SVE system was offline for installation of new RTO from November 1, 2016 to June 6, 2017.

Notes:

^a Influent vapor samples were collected from the manifold conveying soil vapors extracted from the south-central and southeastern areas.

^b Other detected VOCs are included in the laboratory analytical reports in Appendix A.

^c Influent vapor samples were collected after dilution before entrance into the SVE combustion chamber.

%v = percent by volume

<0.5 = not detected at or above the laboratory reporting limit shown

ASTM = ASTM International (formerly American Society for Testing and Materials)

EPA = U.S. Environmental Protection Agency

J = Resulting analyte concentration is between the reporting limit and the method detection limit.

MTBE = methyl tertiary butyl ether

ppbv = parts per billion by volume

ppmv = parts per million by volume

SCAQMD = South Coast Air Quality Management District

TGNMOC = total gaseous non-methane organic carbon

TPH-g = total petroleum hydrocarbons quantified as gasoline (C4-C12)

TVOC = total volatile organic compound

VOC = volatile organic compound

Table 4. Groundwater Remediation System Operation Summary

SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Groundwater Removed from the South-Central and Southeastern Areas (gallons)	Groundwater Removed from the West Side Barrier Area (gallons)	Total Groundwater Removed (gallons)	Influent TPH-total (TPH-g, TPH-d, TPH-o) Concentration (µg/L)	Estimated Hydrocarbon Mass Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ^a	Product Recovery (gallons)
1996 Totals	1,802,103	0	1,802,103	--	273	4,995
1997 Totals	7,031,533	0	7,031,533	--		2,204
1998 Totals	4,064,700	0	4,064,700	--		856
1999 Totals	3,891,600	2,338,129	6,229,729	--	385	450
2000 Totals	2,290,580	2,454,971	4,745,551	--	295	230
2001 Totals	1,401,473	1,131,700	2,533,173	--	229	0
2002 Totals	1,452,229	2,931,167	4,383,396	--	110	0
2003 Totals	1,607,095	2,281,956	3,889,051	--	65	10
2004 Totals	1,695,361	3,854,470	5,549,831	--	229	0
2005 Totals	1,537,925	4,244,674	5,782,599	--	273	0
2006 Totals	1,699,567	5,089,615	6,789,182	--	684	83
2007 Totals	3,368,481	2,167,724	5,536,205	--		89
2008 Totals ^b	4,283,026	405,954	4,688,980	--	520	0
2009 Totals	2,309,627	0	2,309,627	--	105	0
2010 Totals ^c	3,342,227	2,292	3,344,519	--	363	0
2011 Totals	5,530,317	0	5,530,317	--	585	0
2012 Totals	7,368,318	0	7,368,318	--	699	0
2013 Totals	6,439,733	0	6,439,733	--	568	2
2014 Totals	3,410,427	0	3,410,427	--	2,236	2,335
2015 Totals	4,817,906	0	4,817,906	--	5,959	2,928
2016 Totals	2,428,279	0	2,428,279	--	4,506	242
First Quarter 2017 Totals	1,224,622	0	1,224,622	--	9.6	2
Second Quarter 2017 Totals	800,613	0	800,613	--	73	0
7/1/2017	15,512	0	15,512	68,000	8.8	0
7/2/2017	14,862	0	14,862	68,000	8.4	0
7/3/2017	14,686	0	14,686	68,000	8.3	0
7/4/2017	14,792	0	14,792	68,000	8.4	0
7/5/2017	15,093	0	15,093	68,000	8.6	0
7/6/2017	15,329	0	15,329	68,000	8.7	0
7/7/2017	15,195	0	15,195	68,000	8.6	0
7/8/2017	14,947	0	14,947	68,000	8.5	0
7/9/2017	5,053	0	5,053	68,000	2.9	0
7/10/2017	9,058	0	9,058	68,000	5.1	0
7/11/2017	8,921	0	8,921	68,000	5.1	0
7/12/2017	8,980	0	8,980	68,000	5.1	0
7/13/2017	8,816	0	8,816	68,000	5.0	0

Table 4. Groundwater Remediation System Operation Summary

SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Groundwater Removed from the South-Central and Southeastern Areas (gallons)	Groundwater Removed from the West Side Barrier Area (gallons)	Total Groundwater Removed (gallons)	Influent TPH-total (TPH-g, TPH-d, TPH-o) Concentration (µg/L)	Estimated Hydrocarbon Mass Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ³	Product Recovery (gallons)
7/14/2017	8,612	0	8,612	68,000	4.9	0
7/15/2017	8,565	0	8,565	68,000	4.9	0
7/16/2017	8,546	0	8,546	68,000	4.8	0
7/17/2017	8,297	0	8,297	68,000	4.7	0
7/18/2017	8,440	0	8,440	68,000	4.8	0
7/19/2017	8,307	0	8,307	68,000	4.7	0
7/20/2017	8,743	0	8,743	600	0.04	0
7/21/2017	8,529	0	8,529	600	0.04	0
7/22/2017	8,310	0	8,310	600	0.04	0
7/23/2017	8,339	0	8,339	600	0.04	0
7/24/2017	8,169	0	8,169	600	0.04	0
7/25/2017	4,287	0	4,287	600	0.02	0
7/26/2017	2,995	0	2,995	600	0.01	0
7/27/2017	8,010	0	8,010	600	0.04	0
7/28/2017	7,843	0	7,843	600	0.04	0
7/29/2017	7,504	0	7,504	600	0.04	0
7/30/2017	7,772	0	7,772	600	0.04	0
7/31/2017	7,156	0	7,156	600	0.04	0
8/1/2017	14,521	0	14,521	600	0.07	0
8/2/2017	6,632	0	6,632	600	0.03	0
8/3/2017	7,315	0	7,315	760	0.05	0
8/4/2017	8,474	0	8,474	760	0.05	0
8/5/2017	13,318	0	13,318	760	0.08	0
8/6/2017	13,040	0	13,040	760	0.08	0
8/7/2017	12,819	0	12,819	760	0.08	0
8/8/2017	11,306	0	11,306	760	0.07	0
8/9/2017	9,612	0	9,612	760	0.06	0
8/10/2017	10,403	0	10,403	760	0.07	0
8/11/2017	11,839	0	11,839	760	0.07	0
8/12/2017	11,938	0	11,938	760	0.08	0
8/13/2017	11,905	0	11,905	760	0.08	0
8/14/2017	13,684	0	13,684	760	0.09	0
8/15/2017	13,908	0	13,908	760	0.09	0
8/16/2017	16,595	0	16,595	760	0.11	0
8/17/2017	15,803	0	15,803	760	0.10	0
8/18/2017	15,935	0	15,935	760	0.10	0

Table 4. Groundwater Remediation System Operation Summary

SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Groundwater Removed from the South-Central and Southeastern Areas (gallons)	Groundwater Removed from the West Side Barrier Area (gallons)	Total Groundwater Removed (gallons)	Influent TPH-total (TPH-g, TPH-d, TPH-o) Concentration (µg/L)	Estimated Hydrocarbon Mass Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ³	Product Recovery (gallons)
8/19/2017	14,964	0	14,964	760	0.09	0
8/20/2017	15,713	0	15,713	760	0.10	0
8/21/2017	15,373	0	15,373	760	0.10	0
8/22/2017	15,461	0	15,461	760	0.10	0
8/23/2017	15,946	0	15,946	760	0.10	0
8/24/2017	15,862	0	15,862	760	0.10	0
8/25/2017	15,526	0	15,526	760	0.10	0
8/26/2017	1,773	0	1,773	760	0.01	0
8/27/2017	2,200	0	2,200	760	0.01	0
8/28/2017	1,552	0	1,552	760	0.01	0
8/29/2017	1,324	0	1,324	760	0.01	0
8/30/2017	1,028	0	1,028	760	0.01	0
8/31/2017	1,016	0	1,016	760	0.01	0
9/1/2017	1,008	0	1,008	760	0.01	0
9/2/2017	628	0	628	760	0.00	0
9/3/2017	784	0	784	760	0.00	0
9/4/2017	664	0	664	760	0.00	0
9/5/2017	688	0	688	760	0.00	0
9/6/2017	600	0	600	760	0.00	0
9/7/2017	740	0	740	760	0.00	0
9/8/2017	1,184	0	1,184	760	0.01	0
9/9/2017	1,088	0	1,088	760	0.01	0
9/10/2017	1,116	0	1,116	760	0.01	0
9/11/2017	1,020	0	1,020	760	0.01	0
9/12/2017	896	0	896	4,600	0.03	0
9/13/2017	1,064	0	1,064	4,600	0.04	0
9/14/2017	1,132	0	1,132	4,600	0.04	0
9/15/2017	876	0	876	4,600	0.03	0
9/16/2017	1,052	0	1,052	4,600	0.04	0
9/17/2017	640	0	640	4,600	0.02	0
9/18/2017	952	0	952	4,600	0.04	0
9/19/2017	1,512	0	1,512	4,600	0.06	0
9/20/2017	1,296	0	1,296	4,600	0.05	0
9/21/2017	1,616	0	1,616	4,600	0.06	0
9/22/2017	876	0	876	4,600	0.03	0
9/23/2017	1,656	0	1,656	4,600	0.06	0

Table 4. Groundwater Remediation System Operation Summary

SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Groundwater Removed from the South-Central and Southeastern Areas (gallons)	Groundwater Removed from the West Side Barrier Area (gallons)	Total Groundwater Removed (gallons)	Influent TPH-total (TPH-g, TPH-d, TPH-o) Concentration (µg/L)	Estimated Hydrocarbon Mass Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ^a	Product Recovery (gallons)
9/24/2017	1,940	0	1,940	4,600	0.07	0
9/25/2017	1,916	0	1,916	4,600	0.07	0
9/26/2017	480	0	480	4,600	0.02	0
9/27/2017	0	0	0	4,600	0.00	0
9/28/2017	0	0	0	4,600	0.00	0
9/29/2017	0	0	0	4,600	0.00	0
9/30/2017	0	0	0	4,600	0.00	0
Third Quarter 2017 Totals	663,877	0	663,877	--	123	0
Cumulative Total	74,461,619	26,902,652	101,364,271	--	18,292	14,426

Notes:

^a Estimated hydrocarbon mass removed (pounds) between 1996 and 2005 is based on concentrations of dissolved BTEX and MTBE in the groundwater influent and volume of groundwater extracted. Estimated hydrocarbon mass removed (pounds) between 2006 and 2011 is based on concentrations of TPH-g and TPH-fp in the groundwater influent and volume of groundwater extracted. Estimated hydrocarbon mass removed (pounds) between 2012 and 2015 is based on concentrations of dissolved TPH-total in the groundwater influent and volume of extracted groundwater.

^b Groundwater removal in the West Side Barrier area was discontinued in August 2008.

^c Groundwater extraction from West Side Barrier area wells BW-3 and BW-6 was resumed on May 14, 2010, to evaluate the efficacy of blending water with lower selenium concentrations from these wells with groundwater extracted from the south-central and southeastern areas. Groundwater removal from the West Side Barrier area was discontinued again on June 22, 2010.

-- = not applicable

µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene, and xylenes

MTBE = methyl tertiary butyl ether

TPH-d = total petroleum hydrocarbons quantified as diesel (C13-C22)

TPH-fp = total petroleum hydrocarbons quantified as fuel product (C7-C28)

TPH-g = total petroleum hydrocarbons quantified as gasoline (C4-C12)

TPH-o = total petroleum hydrocarbons quantified as oil (C23-C36)

TPH-total = total petroleum hydrocarbons quantified as gasoline, diesel, and oil (C4-C36)

Table 5. Extracted Groundwater Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ^b								
	TPH-g (µg/L)	TPH-d (µg/L)	TPH-o (µg/L)	TPH-total (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
3/6/1996	--	--	--	--	--	2,600	790	7,200	9,100	---	--	--	--	--
7/23/1998	--	--	--	--	--	750	<10	360	300	---	--	--	--	--
8/27/1998	--	--	--	--	--	1,000	71	530	800	---	--	--	--	--
10/1/1998	--	--	--	--	--	1,200	<10	1,400	1,680	---	--	--	--	--
11/19/1998	--	--	--	--	--	1,600	140	2,600	2,900	---	--	--	--	--
12/17/1998	--	--	--	--	--	4,500	380	4,500	3,900	---	--	--	--	--
1/28/1999	--	--	--	--	--	520	79	660	840	---	--	--	--	--
3/25/1999	--	--	--	--	--	540	160	1,800	4,100	---	--	--	--	--
4/2/1999	--	--	--	--	--	620	76	520	1,200	---	--	--	--	--
4/15/1999	--	--	--	--	--	1,400	99	800	1,480	---	--	--	--	--
5/6/1999	--	--	--	--	--	1,340	180	1,240	1,730	---	--	--	--	--
6/3/1999	--	--	--	--	--	3,410	343	2,240	2,770	---	--	--	--	--
8/5/1999	--	--	--	--	--	3,200	780	5,400	5,200	---	--	--	--	--
9/23/1999	--	--	--	--	--	2,700	130	1,200	720	---	--	--	--	--
9/30/1999	--	--	--	--	--	1,300	77	480	560	---	--	--	--	--
10/13/1999	--	--	--	--	--	1,400	100	660	720	---	--	--	--	--
11/4/1999	--	--	--	--	--	3,000	500	5,600	4,500	---	--	--	--	--
12/9/1999	--	--	--	--	--	4,500	280	1,400	1,480	---	--	--	--	--
1/13/2000	--	--	--	--	--	9,000	7,600	14,000	44,000	---	--	--	--	--
2/11/2000	--	--	--	--	--	2,300	<100	1,200	1,240	3,100	--	--	--	--
3/10/2000	--	--	--	--	--	380	20	110	430	740	--	--	--	--
4/13/2000	--	--	--	--	--	1,300	550	450	920	970	--	--	--	--
6/2/2000	--	--	--	--	--	840	56	240	980	920	--	--	--	--
6/15/2000	--	--	--	--	--	1,600	82	900	990	2,700	--	--	--	--
8/3/2000	--	--	--	--	--	1,900	410	3,500	4,400	2,700	--	--	--	--
8/28/2000	--	--	--	--	--	620	33	200	380	1,800	--	--	--	--
9/20/2000	--	--	--	--	--	460	<20	73	255	1,300	--	--	--	--
10/25/2000	--	--	--	--	--	20	<20	<20	216	6,700	--	--	--	--
11/15/2000	--	--	--	--	--	560	24	210	490	3,700	--	--	--	--
3/22/2001	--	--	--	--	--	3,800	360	3,900	3,160	5,500	--	--	--	--
4/30/2001	--	--	--	--	--	4,100	710	5,800	5,600	8,300	--	--	--	--
5/23/2001	--	--	--	--	--	3,400	160	1,100	1,070	3,900	--	--	--	--
6/22/2001	--	--	--	--	--	1,700	85	680	680	2,200	--	--	--	--
7/16/2001	--	--	--	--	--	2,300	130	1,100	1,350	2,100	--	--	--	--
9/5/2001	--	--	--	--	--	1,500	170	1,200	1,890	1,100	--	--	--	--

Table 5. Extracted Groundwater Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ^b									
	TPH-g (µg/L)	TPH-d (µg/L)	TPH-o (µg/L)	TPH-total (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	
1/23/2002	--	--	--	--	--	<0.5	<1	<1	<2	2	--	--	--	--	
2/28/2002	--	--	--	--	--	<0.5	<1	<1	<2	96	--	--	--	--	
3/25/2002	--	--	--	--	--	<0.5	<1	<1	<2	87	--	--	--	--	
5/1/2002	--	--	--	--	--	1,900	31	190	480	1,100	--	--	--	--	
5/17/2002	--	--	--	--	--	1,400	50	180	970	1,000	--	--	--	--	
6/4/2002	--	--	--	--	--	2,700	57	280	530	1,300	--	--	--	--	
7/18/2002	--	--	--	--	--	3,800	66	530	1,160	330	--	--	--	--	
8/8/2002	--	--	--	--	--	4,800	49	610	1,290	460	--	--	--	--	
9/3/2002	--	--	--	--	--	260	<5	5	71	600	--	--	--	--	
10/18/2002	--	--	--	--	--	1,200	70	490	820	570	--	--	--	--	
11/26/2002	--	--	--	--	--	1,300	68	130	590	860	--	--	--	--	
12/27/2002	--	--	--	--	--	1	<1	<1	<2	58	--	--	--	--	
1/30/2003	--	--	--	--	--	<0.5	<1	<1	<2	37	--	--	--	--	
2/26/2003	--	--	--	--	--	4	<1	<1	4	140	--	--	--	--	
3/17/2003	--	--	--	--	--	2,800	23	170	480	570	--	--	--	--	
4/30/2003	--	--	--	--	--	3,700	350	2,200	4,600	490	--	--	--	--	
6/13/2003	--	--	--	--	--	1,200	17	120	510	740	--	--	--	--	
6/19/2003	--	--	--	--	--	680	<10	35	239	680	--	--	--	--	
7/3/2003	--	--	--	--	--	2,600	160	610	2,290	450	--	--	--	--	
7/25/2003	--	--	--	--	--	300	6	3	39	230	--	--	--	--	
8/20/2003	--	--	--	--	--	830	19	130	350	290	--	--	--	--	
9/11/2003	--	--	--	--	--	270	<10	<10	46	420	--	--	--	--	
10/16/2003	--	--	--	--	--	380	<10	<10	121	490	--	--	--	--	
11/17/2003	--	--	--	--	--	93	6	22	106	200	--	--	--	--	
12/19/2003	--	--	--	--	--	300	27	110	1,010	62	--	--	--	--	
1/30/2004	--	--	--	--	--	700	140	740	1,740	22	--	--	--	--	
2/17/2004	--	--	--	--	--	300	47	440	1,150	19	--	--	--	--	
3/8/2004	--	--	--	--	--	52	<5.0	10	149	23	--	--	--	--	
3/21/2004	--	--	--	--	--	420	11	29	318	120	--	--	--	--	
6/28/2004	--	--	--	--	--	740	26	46	337	81	--	--	--	--	
7/30/2004	--	--	--	--	--	660	18	68	280	87	--	--	--	--	
8/27/2004	--	--	--	--	--	1,500	47	140	530	77	--	--	--	--	
9/28/2004	--	--	--	--	--	400	10	32	252	64	--	--	--	--	
10/15/2004	--	--	--	--	--	950	31	130	316	64	--	--	--	--	
11/12/2004	--	--	--	--	--	2,100	1,500	390	15,800	3,000	--	--	--	--	
12/10/2004	--	--	--	--	--	700	320	1,100	3,900	110	--	--	--	--	

Table 5. Extracted Groundwater Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ^b									
	TPH-g (µg/L)	TPH-d (µg/L)	TPH-o (µg/L)	TPH-total (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	
1/28/2005	--	--	--	--	--	460	140	520	2,260	610	--	--	--	--	
2/25/2005	--	--	--	--	--	5,700	200	650	1,560	1,300	--	--	--	--	
3/22/2005	--	--	--	--	--	<5	<10	<10	26	1,000	--	--	--	--	
4/21/2005	--	--	--	--	--	680	8	21	108	420	--	--	--	--	
5/20/2005	--	--	--	--	--	6	<5	9	50	<5	--	--	--	--	
6/28/2005	--	--	--	--	--	450	80	690	1,030	1,600	--	--	--	--	
7/27/2005	--	--	--	--	--	2,000	170	1,700	5,000	1,200	--	--	--	--	
8/31/2005	--	--	--	--	--	660	34	320	670	220	--	--	--	--	
9/28/2005	--	--	--	--	--	1,800	310	2,800	4,700	360	--	--	--	--	
10/26/2005	--	--	--	--	--	940	330	1,800	3,600	530	--	--	--	--	
11/30/2005	--	--	--	--	--	900	170	900	2,790	760	--	--	--	--	
12/20/2005	--	--	--	--	--	2,500	350	2,600	4,100	2,300	--	--	--	--	
7/11/2007	--	--	--	--	--	4,800	130	890	1,040	690	--	--	--	--	
8/7/2007	14,000	--	--	--	11,000	5,400	140	1,100	770	540	--	--	--	--	
9/25/2007	12,000	--	--	--	30,000	3,400	310	1,600	2,390	540	--	--	--	--	
10/16/2007	8,900	--	--	--	8,400	3,400	94	520	660	390	--	--	--	--	
11/2/2007	44,000	--	--	--	6,500	3,200	130	860	1,160	570	--	--	--	--	
11/30/2007	6,000	--	--	--	5,200	1,800	48	170	490	450	--	--	--	--	
12/21/2007	7,200	--	--	--	4,200	2,100	41	170	430	750	--	--	--	--	
1/4/2008	4,300	--	--	--	7,200	3,300	49	300	540	620	--	--	--	--	
1/18/2008	11,000	--	--	--	2,200	3,600	140	650	850	620	--	--	--	--	
2/1/2008	8,700	--	--	--	5,700	3,600	100	440	930	560	--	--	--	--	
3/4/2008	7,200	--	--	--	4,900	3,900	120	510	770	620	--	--	--	--	
4/8/2008	8,100	--	--	--	10,000	2,800	96	280	580	640	--	--	--	--	
5/6/2008	5,300	--	--	--	2,800	2,900	76	190	328	430	--	--	--	--	
6/3/2008	8,400	--	--	--	6,800	3,700	110	450	480	320	--	--	--	--	
7/2/2008	9,200	--	--	--	4,300 ^c	4,500	75	620	650	400	--	--	--	--	
8/19/2008	4,000	--	--	--	6,600	2,600	57	76	215	450	--	--	--	--	
9/5/2008	160	--	--	--	<500	<12	<25	<25	<25	<25	--	--	--	--	
10/7/2008	<100	--	--	--	<500	0.36 J	<1.0	<1.0	1.59	1.7	--	--	--	--	
11/4/2008	12,000	--	--	--	660,000	2,500	140	220	760	160	--	--	--	--	
12/4/2008	1,300	--	--	--	1,500	600	8.2	28	73	130	--	--	--	--	

Table 5. Extracted Groundwater Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ^b									
	TPH-g (µg/L)	TPH-d (µg/L)	TPH-o (µg/L)	TPH-total (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	
1/6/2009	1,500	--	--	--	980	560	23	41	110	320	--	--	--	--	
3/6/2009	2,500	--	--	--	1,500	1,100	33	51	114	65	--	--	--	--	
4/7/2009	3,100	--	--	--	6,900	1,100	36	230	207	210	--	--	--	--	
5/13/2009	690	--	--	--	1,500	120	3.2	14	60	24	--	--	--	--	
6/12/2009	150	--	--	--	<500	<0.50	<1.0	<1.0	0.71 J	44	--	--	--	--	
7/10/2009	4,500	--	--	--	560	1,500	41	68	175	150	--	--	--	--	
8/4/2009	2,000	--	--	--	1,000	1,200	16	18	64	100	--	--	--	--	
9/1/2009	4,800	--	--	--	3,500	380	45	25	328	5.4 J	--	--	--	--	
10/6/2009	3,900	--	--	--	4,600	3,200	21	15	35	82	--	--	--	--	
10/27/2009	1,000	--	--	--	<500	520	4	15	10	180	--	--	--	--	
11/3/2009	120	--	--	--	<500	2	0.55 J	0.61 J	3	40	--	--	--	--	
11/25/2009	5,700	--	--	--	4,000	3,100	26	13	48	88	--	--	--	--	
2/16/2010	8,000	--	--	--	5,900	4,700	110	1,300	800	1,800	--	--	--	--	
3/9/2010	7,000	--	--	--	5,900	6,600	110	460	550	410	--	--	--	--	
4/20/2010	10,000	--	--	--	11,000	6,000	44	230	174	130	--	--	--	--	
5/14/2010	8,500	--	--	--	2,100	3,600	67	380	400	210	--	--	--	--	
6/25/2010	4,600	--	--	--	2,600	2,200	61	540	380	170	--	--	--	--	
7/20/2010	21,000	--	--	--	21,000	3,400	370	3,000	2,550	2,300	--	--	--	--	
8/3/2010	3,400	--	--	--	1,500	1,400	17	140	161	390	--	--	--	--	
8/10/2010	5,800	--	--	--	3,400	2,600	40	190	169	140	--	--	--	--	
9/14/2010	9,400	--	--	--	10,000	4,900	170	1,100	1,340	380	--	--	--	--	
10/12/2010	5,700	--	--	--	1,000	2,200	43	140	138	120	--	--	--	--	
11/16/2010	1,100	--	--	--	1,600	290	4	15	78	84	--	--	--	--	
12/14/2010	7,100	--	--	--	3,200	2,600	76	200	315	340	--	--	--	--	
1/14/2011	7,400	--	--	--	3,500	3,700	56	110	220	280	--	--	--	--	
2/8/2011	5,600	--	--	--	3,500	2,400	43	110	190	420	--	--	--	--	
3/25/2011	3,100	--	--	--	1,200	1,300	51	92	200	300	--	--	--	--	
4/26/2011	1,400	--	--	--	1,200	610	5.8	5.7	20	130	--	--	--	--	
5/17/2011	3,300	--	--	--	1,700	3,600	82	180	300	240	--	--	--	--	
6/21/2011	1,200	--	--	--	720	860	9.6	31	82	190	2,200	6.6	<0.07	<0.1	
7/27/2011	14,000	10,000	44J	--	-- ^d	2,800	150	490	2,100	350	2,800	27	<0.07	<0.1	
8/26/2011	7,400	--	--	--	57,000	1,400	120	480	1,300	270	1,600	16	<0.07	<0.1	
9/23/2011	6,400	--	--	--	2,800	2,800	83.0	160	340	300	1,300	22	<0.07	<0.1	
10/25/2011	6,000	--	--	--	2,300	3,000	52	93	200	200	970	20	<0.70	<1.0	
11/22/2011	5,900	--	--	--	2,000	3,600	62	140	240	300	2,900	26	<0.07	<0.1	
12/20/2011	780	--	--	--	2,000	330	8	14	43	160	1,000	18	<0.07	<0.1	

Table 5. Extracted Groundwater Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ^b									
	TPH-g (µg/L)	TPH-d (µg/L)	TPH-o (µg/L)	TPH-total (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	
1/10/2012	5,300	--	--	--	1,900	3,400	36	70	170	200	960	26	<0.07	<0.1	
2/21/2012	4,900	--	--	--	<13	3,400	19	16	48	120	2,200	21	<0.07	<0.1	
3/13/2012	6,100	--	--	--	2,100	2,900	43	79	180	120	1,600	23	<0.07	<0.1	
4/27/2012	5,100	--	--	--	2,200	3,800	49	61	150	150	500	38	<0.13	<0.12	
5/22/2012	6,800	--	--	--	31,000	2,800	49	140	262	150	690	30	<0.13	<0.12	
6/19/2012	5,300	--	--	--	36,000	3,200	45	230	200	220	2,800	33	<0.13	<0.12	
7/20/2012	5,600	2,400	210	8,200	--	3,000	71	72	510	170	2,700	26	<0.13	<0.12	
8/21/2012	3,600	1,100	140	4,900	--	2,400	26	41	80	110	1,500	22	<0.13	<0.12	
9/25/2012	2,100	710	71	2,800	--	1,700	25	35	86	150	690	17	<1.0	<1.0	
10/30/2012	2,600	700	74	3,374	--	1,400	15	13	52	54	1,200	14	<0.061	<0.054	
11/30/2012	860	8,200	260	9,320	--	1,100	2.4	4.4	12	23	690	<0.038	<0.061	<0.054	
12/27/2012	6,200	820	86	7,106	--	2,000	39	76	130	120	1,300	20	<0.061	<0.054	
1/15/2013	3,400	14,000	400	17,800	--	800	12	25	130	43	1,200	8.7	<0.061	<0.054	
2/12/2013	9,900	3,100	150	13,150	--	2,100	110	440	820	110	330	22	<0.061	<0.054	
3/5/2013	3,954	970	80	5,004	--	1,400	21	23	87	63	1,200	15	<0.061	<0.054	
3/15/2013	--	--	--	--	--	1,400	25	49	98	74	570	14	<0.061	<0.054	
4/16/2013	1,100	1,300	270	2,670	--	370	6	19	56	73	530	17	<0.061	<0.054	
5/14/2013	4,300	830	99	5,229	--	2,000	52	98	181	61	270	22	<0.061	<0.054	
6/28/2013	2,900	870	150	3,920	--	1,100	18	58	76	92	500	11	<0.061	<0.054	
7/16/2013	3,600	1,000	130	4,730	--	870	19	47	140	100	600	14	<0.061	<0.054	
8/16/2013	3,800	5,900	530	10,230	--	1,400	13	32	85	77	550	27	<0.061	<0.054	
9/24/2013	5,800	12,000	550	18,350	--	990	53	400	630	78	440	20	<0.061	<0.054	
10/15/2013	3,300	650	120	4,070	--	1,400	11	37	150	43	250	15	<0.061	<0.054	
11/12/2013	5,600	3,500	190	9,290	--	570	99	230	660	89	550	20	<0.061	<0.054	
12/13/2013	12,500	14,000	400	26,900	--	560	170	690	1,500	52	220	17	<0.061	<0.054	
1/17/2014	5,900	980	130	7,010	--	4,200	13	18	61	89	810	40	<0.061	<0.054	
2/11/2014	12,000	63,000	2,500	77,500	--	640	130	560	1,990	45	290	12	<0.061	<0.054	
3/21/2014	42,000	77,000	2,000	121,000	--	3,700	440	3,300	3,900	100	360	17	<0.061	<0.054	
4/21/2014	100,000	30,000	880	130,000	--	6,000	1,300	9,800	9,000	<0.098	<1.0	12	<0.061	<0.054	
5/20/2014	33,000	15,000	470	48,000	--	1,400	570	2,700	5,400	30	<0.40	16	<0.061	<0.054	
6/13/2014	77,000	33,000	1,100	110,000	--	7,700	1,900	10,000	13,000	38	<0.40	12	<0.061	<0.054	
7/12/2014	28,000	82	<52	28,082	--	2,800	820	3,700	6,800	34	<0.40	18J	<25	<25	

The GWTS was down between July 29, 2014 and December 1, 2014 to facilitate processing of the modifications to SCAQMD Permit No. F14166 for the GWTS.

Table 5. Extracted Groundwater Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ^b									
	TPH-g (µg/L)	TPH-d (µg/L)	TPH-o (µg/L)	TPH-total (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	
1/15/2015	8,000	5,600	270	13,870	--	2,200	22	140	430	21	390	11	<0.12	<0.11	
2/20/2015	120,000	47,000	1,500	170,000	--	3,000	350	1,600	3,000	43	<0.80	17	<0.12	<0.11	
3/3/2015	65,000	480,000	15,000	560,000	--	6,600	1,700	9,300	12,000	670	<0.80	11	<0.12	<0.11	
4/7/2015	105,000	92,000	2,900	200,000	--	9,000	2,100	18,000	13,000	1,200	<0.80	8.7	<0.12	17	
5/19/2015	73,000	90,000	2,400	165,400	--	8,200	1,600	17,000	12,000	380	<0.60	25	<0.078	<0.078	
6/2/2015	78,000	89,000	3,100	170,100	--	3,200	530	3,700	7,100	1,100	<0.60	13	<0.078	8.3	
7/30/2015	31,000	16,000	570	47,570	--	3,100	720	5,100	6,200	820	<0.60	27	<0.078	6.2	
8/6/2015	30,000	17,000	570	37,570	--	2,600	500	3,100	6,200	700	<0.60	16	<0.078	6.4	
9/15/2015	50,000	79,000	2,700	129,000	--	3,200	1,800	6,500	14,000	820	<0.60	15	<0.078	7.7	
10/8/2015	51,000	55,000	1,800	107,800	--	5,700	1,400	11,000	11,000	680	<0.60	16	<0.078	6.2	
11/24/2015	45,000	74,000	2,800	121,800	--	3,400	1,100	7,000	7,800	<0.31	<1.5	16	<0.20	<0.20	
12/3/2015	40,000	120,000	4,000	164,000	--	4,800	1,100	7,700	8,300	580	<1.5	19	<0.20	5.9	
1/21/2016	88,000	2,500,000	97,000	2,685,000	--	4,200	1,700	10,000	14,000	380	<0.60	12	<0.078	<0.078	
2/2/2016	31,000	110,000	4,700	145,700	--	2,600	750	4,600	9,500	430	<0.60	8.6	<0.078	<0.078	
4/5/2016	32,000	31,000	1,100	64,100	--	1,500	450	2,200	12,000	390	<3.0	<0.17	<0.39	<0.39	
5/3/2016	2,600	20,000	680	23,280	--	990	18	83	260	6.0	100	7.1	<0.039	<0.039	
6/14/2016	1,900	4,400	280	6,580	--	290	21	110	400	8.6	<5.0	6.00	<1.0	<1.0	
The GWTS was down between June 24 and September 9, 2016, to facilitate installation of the new DAF/OWS.															
9/20/2016	32	230	130	390	--	<0.036	0.18 J	0.080 J	2.6	2.2	150	10	<0.039	<0.039	
10/21/2016	10,000	9,300	360	20,000	--	320	320	1,100	2,700	5.1	<0.30	5.3	<0.039	<0.039	
11/8/2016	1,100	1,500	130	2,800	--	2.5	<0.036	2.6	160	2.4	66	9.1	<0.039	<0.039	
12/27/2016	140	390	130	660	--	1.2	<0.042	<0.042	2.0 J	1.4	2200	8.7	<0.039	<0.039	

Table 5. Extracted Groundwater Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ^b								
	TPH-g (µg/L)	TPH-d (µg/L)	TPH-o (µg/L)	TPH-total (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
1/19/2017	190	340	120	640	--	6.9	0.24 J	0.15 J	<1.5	2.4	2300	8.1	<0.15	<0.12
2/3/2017	390	490	170	1,000	--	4.2	0.89 J	3.5	30	3.5	1700	5.1	<0.15	<0.12
3/3/2017	790	320	78	1,200	--	180	5	1.7 J	24	4.2	620	3.0	<0.15	<0.12
4/7/2017	1,200	780	140	2,100	--	740	21	23	87	7.5	120	4.8	<0.15	<0.12
5/4/2017	20	300	100	430	--	0.18 J	<0.036	0.12 J	<1.5	1.4	320	<0.017	<0.039	<0.039
6/20/2017	11,000	54,000	3,000	68,000	--	1,400	100	400	2,300	15	<18	8.1 J	<1.5	<1.2
7/20/2017	17 J	400	180	600	--	<1.0	<1.0	<2.0	<2.0	1.2	38	4.2	<1.0	<1.0
8/3/2017	39 J	410	310	760	--	<1.0	<1.0	<2.0	<2.0	1.3	25	4.2	<1.0	<1.0
9/20/2017	940	2,400	1,300	4,600	--	<1.0	0.15 J	0.17 J	4.4	0.59	5.4	0.70 J	<1.0	<1.0

Notes:

^a Influent samples were collected from the manifold conveying groundwater extracted from the south-central and southeastern areas.

^b Other detected VOCs are included in the laboratory analytical reports in Appendix A.

^c TPH-fp result from extracted groundwater sample collected on July 10, 2008.

^d The July 27, 2011, sample, and samples collected after July 20, 2012, were analyzed for TPH-g, TPH-d, and TPH-o.

-- = not analyzed

<500 = Not detected at or above the laboratory reporting limit (RL) shown

µg/L = micrograms per liter

DAF = dissolved air flotation

DIPE = di-isopropyl ether

ETBE = ethyl tertiary butyl ether

GWTS = groundwater treatment system

J = Analyte was detected above the laboratory method detection limit and below the laboratory RL

MTBE = methyl tertiary butyl ether

OWS = oil-water separator

SCAQMD = South Coast Air Quality Management District

TAME = tertiary amyl methyl ether

TBA = tertiary butyl alcohol

TPH-d = total petroleum hydrocarbons quantified as diesel (C13-C22)

TPH-fp = total petroleum hydrocarbons quantified as fuel product (C7-C28)

TPH-g = total petroleum hydrocarbons quantified as gasoline (C4-C12)

TPH-o = total petroleum hydrocarbons quantified as oil (C23-C36)

TPH-total = total petroleum hydrocarbons quantified as gasoline, diesel, and oil (C4-C36)

Table 6. Biosparge System Operation Summary
SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Cumulative Hours of Operation (hours)	Incremental Hours of Operation (hours)	Incremental Uptime (%)	System Flow ^a (scfm)	BS-01 Sparge Leg Pressure (psi)
1/6/2016	0			60	10
2/16/2016	899	899	91.9	500	13
2/23/2016	1,071	172	99.1	500	14
2/29/2016	1,192	121	85.1	500	13
3/1/2016	1,214	22	98.5	500	13
3/8/2016	1,381	167	99.9	500	14
3/10/2016	1,426	45	98.5	500	14
3/22/2016	1,432	6	2.0	240	7
3/31/2016	1,524	92	42.5	180	8
First Quarter 2016 Totals	1,524	1,524	74.7	--	--
4/5/2016	1,644	120	99.2	120	7
4/15/2016	1,645	1	0.4	120	8
4/19/2016	1,735	90	99.4	240	9
4/25/2016	1,856	121	84.6	120	8
4/26/2016	1,881	25	87.7	240	8
4/29/2016	1,955	74	100.0	240	7
5/10/2016	1,955	0	0.0	240	8
5/17/2016	2,123	168	99.8	240	6
5/19/2016	2,140	17	36.9	120	5
5/24/2016	2,254	114	94.4	360	6
5/31/2016	2,422	168	98.7	360	7
6/7/2016	2,591	169	100.0	420	7
6/14/2016	2,754	163	95.3	420	8
6/21/2016	2,906	152	92.7	420	8
6/24/2016	2,982	76	99.6	420	8
Second Quarter 2016 Totals	2,982	1,458	71.5	--	--

Table 6. Biosparge System Operation Summary
SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Cumulative Hours of Operation (hours)	Incremental Hours of Operation (hours)	Incremental Uptime (%)	System Flow ^a (scfm)	BS-01 Sparge Leg Pressure (psi)
7/1/2016	2,982	0	0.0	120	5
7/7/2016	3,121	139	97.9	250	8
7/12/2016	3,242	121	100.0	420	5
7/19/2016	3,410	168	97.1	420	8
7/26/2016	3,575	165	99.8	420	8
8/2/2016	3,744	169	99.6	425	8
8/11/2016	3,931	187	88.0	240	7
8/16/2016	3,961	30	24.7	220	8
8/24/2016	4,033	72	36.5	120	4
8/25/2016	4,053	20	89.9	220	8
8/26/2016	4,067	14	66.7	78	5
8/30/2016	4,157	90	96.8	300	9
9/6/2016	4,303	146	84.5	85	5
9/13/2016	4,440	137	81.7	400	8
9/20/2016	4,611	171	100.0	586	14
9/27/2016	4,775	164	100.0	559	13
Third Quarter 2016 Totals	4,775	1,793	78.7	--	--
10/7/2016	4,776	1	0.4	110	4
10/8/2016	4,797	21	98.7	170	6
10/11/2016	4,866	69	99.9	420	11
10/13/2016	4,916	50	99.9	563	15
10/18/2016	4,965	49	42.1	120	8
10/25/2016	5,133	168	100.0	585	14
11/1/2016	5,302	169	99.8	598	14
Fourth Quarter 2016 Totals	5,302	527	62.7	--	--
2016 Totals	5,302	5,302	--	--	--

Table 6. Biosparge System Operation Summary
SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Cumulative Hours of Operation (hours)	Incremental Hours of Operation (hours)	Incremental Uptime (%)	System Flow ^a (scfm)	BS-01 Sparge Leg Pressure (psi)
First Quarter 2017 Totals	5,302	0	--	--	--
6/27/2017	5,302	0	0.0	220	6
6/30/2017	5,368	66	22.0	207	7
Second Quarter 2017 Totals	5,368	66	--	--	--
7/5/2017	5,490	122	92.7	300	9
7/10/2017	5,610	120	100.0	290	8
7/13/2017	5,679	69	95.8	421	11
7/20/2017	5,850	171	100.0	526	14
7/25/2017	5,971	121	100.0	694	14
8/3/2017	6,183	212	94.4	544	13
8/8/2017	6,302	119	99.1	545	15
8/15/2017	6,417	115	68.8	550	14
8/22/2017	6,588	171	100.0	541	14
8/29/2017	6,753	165	99.1	544	14
9/7/2017	6,826	73	33.1	240	7
9/12/2017	6,941	115	100.0	747	14
9/18/2017	7,065	124	85.2	240	7
9/19/2017	7,089	24	100.0	218	7
9/26/2017	7,255	166	99.3	544	15
Third Quarter 2017 Totals	7,255	1,887	89.1	--	--
Cumulative Totals	7,255	--	48.1	--	--

Notes:

^a Estimated system flow based on header flowmeter

-- = not applicable or not available

psi = pounds per square inch

scfm = standard cubic feet per minute

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
GMW-9	4/30/2007	74.44	26.71	---	---	47.73	Secor
	11/12/2007	74.44	27.32	27.04	0.28	47.34	Secor
	8/8/2008	74.44	28.01	27.96	0.05	46.47	Envent
	10/16/2008	74.44	28.36	28.35	0.01	46.09	Envent
	12/17/2008	74.44	27.61	---	---	46.83	Envent
	1/15/2009	74.44	28.91	---	---	45.53	Envent
	3/27/2009	74.44	29.04	---	---	45.40	Envent
	4/21/2009	74.44	28.16	---	---	46.28	Envent
	7/21/2009	74.44	28.31	---	---	46.13	Envent
	10/19/2009	74.44	NM	---	---	NC	Blaine Tech
	5/24/2010	74.44	30.47	---	---	43.97	Blaine Tech
	5/28/2010	74.44	30.35	---	---	44.09	Blaine Tech
	10/4/2010	74.44	30.30	---	---	44.14	Blaine Tech
	1/10/2011	74.44	32.02	---	---	42.42	Blaine Tech
	4/11/2011	74.44	25.41	---	---	49.03	Blaine Tech
	7/11/2011	74.44	NM	---	---	NC	
	10/10/2011	74.44	28.91	---	---	45.53	Blaine Tech
	4/16/2012	74.44	31.15	---	---	43.29	Blaine Tech
	7/9/2012	---	31.64	---	---	NC	Blaine Tech
	10/15/2012	77.16	31.82	---	---	45.34	Blaine Tech
	1/14/2013	77.16	31.88	---	---	45.28	Blaine Tech
	4/8/2013	77.16	31.83	---	---	45.33	Blaine Tech
	10/7/2013	77.16	35.30	31.25	4.05	45.02	Blaine Tech
	4/14/2014	77.16	37.66	31.65	6.01	44.19	Blaine Tech
	5/5/2014	77.16	37.81	31.76	6.05	44.07	Nieto & Sons
	5/12/2014	77.16	37.39	31.83	5.56	44.11	Nieto & Sons
	5/20/2014	77.16	37.70	33.85	3.85	42.46	Nieto & Sons
	5/27/2014	77.16	32.41	28.84	3.57	47.53	Nieto & Sons
	6/4/2014	77.16	33.20	---	---	43.96	Nieto & Sons
	6/10/2014	77.16	37.51	32.77	4.74	43.35	Nieto & Sons
	7/3/2014	77.16	39.26	32.59	6.67	43.10	Nieto & Sons
	7/8/2014	77.16	38.59	32.45	6.14	43.36	Blaine Tech
	7/18/2014	77.16	37.15	32.73	4.42	43.46	Blaine Tech
	7/24/2014	77.16	37.78	32.48	5.30	43.51	Blaine Tech
	8/1/2014	77.16	36.72	32.30	4.42	43.89	Blaine Tech
	8/8/2014	77.16	36.55	32.26	4.29	43.96	Blaine Tech
	8/13/2014	77.16	36.25	32.33	3.92	43.97	Blaine Tech
	8/19/2014	77.16	36.04	32.38	3.66	43.97	Blaine Tech
	8/29/2014	77.16	36.23	32.33	3.90	43.97	Blaine Tech
	9/5/2014	77.16	36.26	32.35	3.91	43.95	Blaine Tech
	9/11/2014	77.16	36.27	32.33	3.94	43.96	Blaine Tech
	9/18/2014	77.16	36.42	32.37	4.05	43.90	Blaine Tech
	9/26/2014	77.16	36.39	32.35	4.04	43.92	Blaine Tech
10/1/2014	77.16	36.11	32.42	3.69	43.93	Blaine Tech	
10/6/2014	77.16	35.99	32.42	3.57	43.95	Blaine Tech	
10/14/2014	77.16	36.24	32.34	3.90	43.96	Blaine Tech	
10/23/2014	77.16	36.32	32.35	3.97	43.94	Blaine Tech	
10/27/2014	77.16	36.04	32.42	3.62	43.94	Blaine Tech	
11/3/2014	77.16	36.40	32.35	4.05	43.92	Blaine Tech	
11/10/2014	77.16	36.32	32.41	3.91	43.89	Blaine Tech	
11/18/2014	77.16	36.28	32.43	3.85	43.88	Blaine Tech	
11/25/2014	77.16	36.21	32.49	3.72	43.85	Blaine Tech	
12/3/2014	77.16	36.18	32.43	3.75	43.90	Blaine Tech	
12/12/2014	77.16	36.58	32.74	3.84	43.58	Blaine Tech	
12/19/2014	77.16	37.05	32.76	4.29	43.46	Blaine Tech	
3/6/2015	77.16	39.40	33.13	6.27	42.65	Kinder Morgan	
4/20/2015	77.16	36.98	32.99	3.99	43.29	Blaine Tech	
10/20/2015	77.16	34.61	34.37	0.24	42.74	Kinder Morgan	

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	3/14/2016	77.16	36.10	---	---	41.06	Blaine Tech
	4/11/2016	77.16	36.20	---	---	40.96	Blaine Tech
	6/30/2016	77.16	31.02	---	---	46.14	Kinder Morgan
	8/22/2016	77.16	37.27	---	---	39.89	Kinder Morgan
	10/3/2016	77.16	38.02	---	---	39.14	Blaine Tech
	3/7/2017	77.16	35.13	---	---	42.03	CH2M
	4/17/2017	77.16	33.32	---	---	43.84	Blaine Tech
GMW-10	4/30/2007	74.67	25.90	---	---	48.77	Secor
	11/12/2007	74.67	25.02	25.82	0.83	50.33	Secor
	4/14/2008	74.67	25.38	25.44	0.06	49.34	Secor
	10/13/2008	74.67	24.16	---	---	50.51	Stantec
	4/20/2009	74.67	24.46	---	---	50.21	Blaine Tech
	10/19/2009	74.67	27.20	---	---	47.47	Blaine Tech
	5/24/2010	74.67	26.72	---	---	47.95	Blaine Tech
	5/28/2010	74.67	26.70	---	---	47.97	Blaine Tech
	10/4/2010	74.67	27.15	---	---	47.52	Blaine Tech
	4/11/2011	74.67	25.21	---	---	49.46	Blaine Tech
	10/10/2011	74.67	27.75	---	---	46.92	Blaine Tech
	4/27/2012	74.67	28.47	---	---	46.20	Blaine Tech
	7/9/2012	74.67	NM	---	---	NC	Blaine Tech
	10/15/2012	74.67	29.15	29.02	0.13	45.63	Blaine Tech
	4/8/2013	74.67	33.64	28.12	5.52	45.53	Blaine Tech
	9/26/2013	73.35	36.15	29.25	6.90	42.82	Blaine Tech
	10/7/2013	73.35	31.85	29.32	2.53	43.56	Blaine Tech
	4/14/2014	73.35	29.43	29.01	0.42	44.26	Blaine Tech
	8/19/2014	73.35	29.80	29.53	0.27	43.77	Blaine Tech
	8/29/2014	73.35	29.68	29.25	0.43	44.02	Blaine Tech
	9/26/2014	73.35	29.98	29.23	0.75	43.98	Blaine Tech
	10/1/2014	73.35	29.98	29.19	0.79	44.01	Blaine Tech
	10/6/2014	73.35	30.01	29.16	0.85	44.03	Blaine Tech
	10/14/2014	73.35	30.01	29.18	0.83	44.02	Blaine Tech
	10/23/2014	73.35	30.17	29.15	1.02	44.01	Blaine Tech
	10/27/2014	73.35	30.19	29.12	1.07	44.03	Blaine Tech
	11/3/2014	73.35	30.25	29.13	1.12	44.01	Blaine Tech
	11/10/2014	73.35	29.85	29.28	0.57	43.96	Blaine Tech
	11/18/2014	73.35	29.95	29.28	0.67	43.95	Blaine Tech
	11/25/2014	73.35	30.00	29.27	0.73	43.94	Blaine Tech
	12/3/2014	73.35	30.18	29.27	0.91	43.91	Blaine Tech
	12/12/2014	73.35	30.81	29.45	1.36	43.65	Blaine Tech
	12/19/2014	73.35	30.51	30.35	0.16	42.97	Blaine Tech
	4/20/2015	73.35	34.99	28.42	6.57	43.71	Blaine Tech
	7/17/2015	73.35	36.10	29.41	6.69	42.70	Blaine Tech
	10/20/2015	73.35	32.96	31.02	1.94	41.97	Kinder Morgan
	3/16/2016	73.35	34.47	33.42	1.05	39.74	Kinder Morgan
	4/11/2016	73.35	33.70	32.10	1.60	40.95	Blaine Tech
	6/29/2016	73.35	33.02	---	---	40.33	Blaine Tech
	8/22/2016	73.35	33.82	32.93	0.89	40.26	Blaine Tech
	10/3/2016	73.35	35.10	33.65	1.45	39.43	Blaine Tech
	3/8/2017	73.35	32.75	---	---	40.60	CH2M
	04/17/17	73.35	31.15	---	---	42.20	Blaine Tech
GMW-22	4/30/2007	74.17	25.79	---	---	48.38	Secor
	11/12/2007	74.17	26.45	25.91	0.54	48.16	Stantec
	8/12/2008	74.17	26.70	---	---	47.47	Envent
	10/31/2008	74.17	28.25	27.04	1.21	46.91	Envent
	11/4/2008	74.17	26.97	---	---	47.20	Envent
	12/17/2008	74.17	26.65	---	---	47.52	Envent

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	1/15/2009	74.17	27.18	---	---	46.99	Envent
	3/27/2009	74.17	27.86	---	---	46.31	Envent
	4/21/2009	74.17	27.30	27.20	0.10	46.95	Envent
	7/21/2009	74.17	27.70	---	---	46.47	Envent
	10/19/2009	74.17	NM	---	---	NC	Blaine Tech
	11/6/2009	74.17	28.12	---	---	46.05	Kinder Morgan
	9/3/2010	74.17	28.36	25.10	3.26	48.47	Kinder Morgan
	10/4/2010	74.17	27.65	---	---	46.52	Blaine Tech
	4/11/2011	74.17	26.45	---	---	47.72	Blaine Tech
	10/10/2011	74.17	29.68	---	---	44.49	Blaine Tech
	4/16/2012	74.17	31.15	---	---	43.02	Blaine Tech
	7/9/2012	---	NM	---	---	NC	Blaine Tech
	10/15/2012	77.24	31.05	---	---	46.19	Blaine Tech
	4/8/2013	77.24	31.92	---	---	45.32	Blaine Tech
	10/7/2013	77.24	34.28	31.65	2.63	45.10	Blaine Tech
	4/14/2014	77.24	35.59	32.30	3.29	44.33	Blaine Tech
	5/6/2014	77.24	35.87	32.35	3.52	44.24	Nieto & Sons
	5/12/2014	77.24	35.76	32.28	3.48	44.32	Nieto & Sons
	5/20/2014	77.24	37.90	32.70	5.20	43.58	Nieto & Sons
	5/27/2014	77.24	36.34	32.71	3.63	43.86	Nieto & Sons
	6/4/2014	77.24	33.36	---	---	43.88	Nieto & Sons
	6/10/2014	77.24	36.74	32.82	3.92	43.69	Nieto & Sons
	7/3/2014	77.24	37.66	32.91	4.75	43.45	Nieto & Sons
	7/8/2014	77.24	36.70	32.79	3.91	43.73	Blaine Tech
	7/18/2014	77.24	36.68	32.77	3.91	43.75	Blaine Tech
	7/24/2014	77.24	36.79	32.62	4.17	43.85	Blaine Tech
	8/1/2014	77.24	35.82	32.44	3.38	44.17	Blaine Tech
	8/8/2014	77.24	35.72	32.44	3.28	44.19	Blaine Tech
	8/13/2014	77.24	35.68	32.45	3.23	44.19	Blaine Tech
	8/19/2014	77.24	35.64	32.45	3.19	44.20	Blaine Tech
	8/29/2014	77.24	35.65	32.44	3.21	44.21	Blaine Tech
	9/5/2014	77.24	35.73	32.46	3.27	44.18	Blaine Tech
	9/11/2014	77.24	35.78	32.47	3.31	44.16	Blaine Tech
	9/18/2014	77.24	35.85	32.49	3.36	44.13	Blaine Tech
	9/26/2014	77.24	35.85	32.46	3.39	44.15	Blaine Tech
	10/1/2014	77.24	35.76	32.45	3.31	44.18	Blaine Tech
	10/6/2014	77.24	35.72	32.44	3.28	44.19	Blaine Tech
	10/14/2014	77.24	35.75	32.42	3.33	44.20	Blaine Tech
	10/23/2014	77.24	35.84	32.43	3.41	44.18	Blaine Tech
	10/27/2014	77.24	35.74	32.41	3.33	44.21	Blaine Tech
	11/3/2014	77.24	35.89	32.45	3.44	44.15	Blaine Tech
	11/10/2014	77.24	35.94	32.45	3.49	44.14	Blaine Tech
	11/18/2014	77.24	35.97	32.48	3.49	44.11	Blaine Tech
	11/25/2014	77.24	35.97	32.51	3.46	44.09	Blaine Tech
	12/3/2014	77.24	35.84	32.45	3.39	44.16	Blaine Tech
	12/12/2014	77.24	36.44	32.65	3.79	43.89	Blaine Tech
	12/19/2014	77.24	36.80	34.71	2.09	42.14	Blaine Tech
	4/20/2015	77.24	36.64	32.84	3.80	43.70	Blaine Tech
	7/24/2015	77.24	39.80	33.70	6.10	42.41	Northstar
	10/20/2015	77.24	36.10	34.92	1.18	42.10	Kinder Morgan
	3/16/2016	77.24	39.73	37.61	2.12	39.24	Kinder Morgan
	4/11/2016	77.24	38.59	35.50	3.09	41.17	Blaine Tech
	6/30/2016	77.24	36.55	---	---	40.69	Blaine Tech
	10/3/2016	77.24	37.70	---	---	39.54	Blaine Tech
	4/17/2017	77.24	34.47	--	---	42.77	Blaine Tech
GMW-24	4/30/2007	74.04	27.07	---	---	46.97	Secor
	11/12/2007	74.04	27.50	27.46	0.04	46.57	Stantec

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	8/12/2008	74.04	NM	---	---	NC	Envent
	8/19/2008	74.04	29.34	28.24	1.10	45.58	Envent
	10/17/2008	74.04	30.88	29.90	0.98	43.94	Envent
	10/21/2008	74.04	29.64	28.30	1.34	45.47	Envent
	12/18/2008	74.04	29.04	---	---	45.00	Envent
	1/15/2009	74.04	30.56	29.80	0.76	44.09	Envent
	3/20/2009	74.04	31.28	---	---	42.76	Envent
	3/27/2009	74.04	30.45	---	---	43.59	Envent
	4/21/2009	74.04	29.91	---	---	44.13	Envent
	7/21/2009	74.04	32.78	---	---	41.26	Envent
	10/19/2009	74.04	NM	---	---	NC	Blaine Tech
	2/4/2010	74.04	29.67	29.40	0.27	44.59	Kinder Morgan
	6/22/2010	74.04	29.47	---	---	44.57	Blaine Tech
	9/3/2010	74.04	29.90	---	---	44.14	Kinder Morgan
	10/4/2010	74.04	29.50	---	---	44.54	Blaine Tech
	4/11/2011	74.04	28.21	---	---	45.83	Blaine Tech
	10/10/2011	74.04	28.78	---	---	45.26	Blaine Tech
	4/16/2012	74.04	30.49	30.31	0.18	43.69	Blaine Tech
	7/9/2012	---	NM	---	---	NC	Blaine Tech
	10/15/2012	77.48	31.34	---	---	46.14	Blaine Tech
	4/8/2013	77.48	NM	---	---	NC	Blaine Tech
	6/14/2013	77.48	33.35	32.40	0.95	44.89	Blaine Tech
	10/7/2013	77.48	35.42	31.61	3.81	45.11	Blaine Tech
	4/14/2014	77.48	37.74	32.01	5.73	44.32	Blaine Tech
	5/5/2014	77.48	37.81	32.09	5.72	44.25	Nieto & Sons
	5/12/2014	77.48	37.52	32.14	5.38	44.26	Nieto & Sons
	5/20/2014	77.48	37.39	32.21	5.18	44.23	Nieto & Sons
	5/27/2014	77.48	37.95	32.90	5.05	43.57	Nieto & Sons
	6/4/2014	77.48	37.00	32.70	4.30	43.92	Nieto & Sons
	6/10/2014	77.48	37.85	32.98	4.87	43.53	Nieto & Sons
	7/3/2014	77.48	39.60	33.04	6.56	43.13	Nieto & Sons
	7/8/2014	77.48	38.67	32.89	5.78	43.43	Blaine Tech
	7/18/2014	77.48	38.64	32.86	5.78	43.46	Blaine Tech
	7/24/2014	77.48	38.27	32.82	5.45	43.57	Blaine Tech
	8/1/2014	77.48	37.00	32.55	4.45	44.04	Blaine Tech
	8/8/2014	77.48	36.97	32.51	4.46	44.08	Blaine Tech
	8/13/2014	77.48	36.82	32.54	4.28	44.08	Blaine Tech
	8/19/2014	77.48	36.92	32.55	4.37	44.06	Blaine Tech
	8/29/2014	77.48	36.92	32.51	4.41	44.09	Blaine Tech
	9/5/2014	77.48	36.97	32.55	4.42	44.05	Blaine Tech
	9/11/2014	77.48	37.99	32.57	5.42	43.83	Blaine Tech
	9/18/2014	77.48	36.89	32.60	4.29	44.02	Blaine Tech
	9/26/2014	77.48	36.86	32.58	4.28	44.04	Blaine Tech
	10/1/2014	77.48	36.64	32.61	4.03	44.06	Blaine Tech
	10/6/2014	77.48	36.93	32.92	4.01	43.76	Blaine Tech
	10/14/2014	77.48	36.92	32.88	4.04	43.79	Blaine Tech
	10/23/2014	77.48	37.00	32.90	4.10	43.76	Blaine Tech
	10/27/2014	77.48	36.82	32.91	3.91	43.79	Blaine Tech
	11/3/2014	77.48	37.01	32.99	4.02	43.69	Blaine Tech
	11/10/2014	77.48	37.33	33.95	3.38	42.85	Blaine Tech
	11/18/2014	77.48	36.96	33.01	3.95	43.68	Blaine Tech
	11/25/2014	77.48	36.91	33.55	3.36	43.26	Blaine Tech
	12/3/2014	77.48	36.87	32.99	3.88	43.71	Blaine Tech
	12/12/2014	77.48	37.36	33.25	4.11	43.41	Blaine Tech
	12/19/2014	77.48	37.75	33.31	4.44	43.28	Blaine Tech
	3/10/2015	77.48	36.25	---	---	41.23	Kinder Morgan
	4/20/2015	77.48	36.29	33.82	2.47	43.17	Blaine Tech
	7/24/2015	77.48	39.80	33.70	6.10	42.56	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/20/2015	77.48	35.44	---	---	42.04	Kinder Morgan
	3/16/2016	77.48	38.83	---	---	38.65	Kinder Morgan
	4/11/2016	77.48	37.10	---	---	40.38	Blaine Tech
	6/29/2016	77.48	38.20	---	---	39.28	Blaine Tech
	8/22/2016	77.48	38.40	---	---	39.08	Blaine Tech
	10/3/2016	77.48	38.70	---	---	39.44	Blaine Tech
	4/17/2017	77.48	35.64	35.09	0.55	42.28	Blaine Tech
GMW-25	4/30/2007	74.29	26.60	---	---	47.69	Secor
	11/12/2007	74.29	27.30	27.25	0.05	47.03	Stantec
	8/12/2008	74.29	27.81	---	---	46.48	Envent
	10/17/2008	74.29	28.26	---	---	46.03	Envent
	12/18/2008	74.29	29.01	---	---	45.28	Envent
	1/15/2009	74.29	28.62	---	---	45.67	Envent
	3/24/2009	74.29	28.79	---	---	45.50	Envent
	4/21/2009	74.29	28.35	---	---	45.94	Envent
	7/21/2009	74.29	29.80	---	---	44.49	Envent
	10/19/2009	74.29	30.28	---	---	44.01	Blaine Tech
	6/22/2010	74.29	31.64	---	---	42.65	Blaine Tech
	10/4/2010	74.29	29.25	---	---	45.04	Blaine Tech
	4/11/2011	74.29	26.21	---	---	48.08	Blaine Tech
	10/10/2011	74.29	30.02	---	---	44.27	Blaine Tech
	4/16/2012	74.29	31.30	---	---	42.99	Blaine Tech
	7/9/2012	---	NM	---	---	NC	Blaine Tech
	10/15/2012	78.14	31.88	---	---	46.26	Blaine Tech
	4/8/2013	78.14	32.11	---	---	46.03	Blaine Tech
	10/7/2013	78.14	33.23	33.10	0.13	45.01	Blaine Tech
	4/14/2014	78.14	37.40	33.00	4.40	44.13	Blaine Tech
	5/5/2014	78.14	37.51	33.06	4.45	44.06	Nieto & Sons
	5/12/2014	78.14	34.97	33.73	1.24	44.12	Nieto & Sons
	5/20/2014	78.14	36.75	34.30	2.45	43.28	Nieto & Sons
	5/27/2014	78.14	34.64	34.44	0.20	43.65	Nieto & Sons
	6/4/2014	78.14	35.00	---	---	43.14	Nieto & Sons
	6/10/2014	78.14	36.67	34.18	2.49	43.39	Nieto & Sons
	7/3/2014	78.14	34.21	---	---	43.93	Nieto & Sons
	7/24/2014	78.14	34.29	---	---	43.85	Blaine Tech
	8/1/2014	78.14	35.02	33.99	1.03	43.91	Blaine Tech
	8/8/2014	78.14	34.54	34.06	0.48	43.97	Blaine Tech
	8/14/2014	78.14	34.48	34.06	0.42	43.98	Blaine Tech
	8/19/2014	78.14	34.51	34.07	0.44	43.97	Blaine Tech
	8/29/2014	78.14	34.65	33.96	0.69	44.02	Blaine Tech
	9/18/2014	78.14	35.21	34.01	1.20	43.85	Blaine Tech
	9/26/2014	78.14	34.87	34.06	0.81	43.89	Blaine Tech
	10/1/2014	78.14	34.92	33.98	0.94	43.94	Blaine Tech
	10/6/2014	78.14	34.93	33.99	0.94	43.93	Blaine Tech
	10/14/2014	78.14	35.10	33.91	1.19	43.96	Blaine Tech
	10/23/2014	78.14	35.34	33.91	1.43	43.90	Blaine Tech
	10/27/2014	78.14	34.78	33.95	0.83	44.00	Blaine Tech
	11/3/2014	78.14	34.92	33.98	0.94	43.94	Blaine Tech
	11/10/2014	78.14	35.12	34.02	1.10	43.87	Blaine Tech
	11/18/2014	78.14	34.90	34.11	0.79	43.85	Blaine Tech
	11/25/2014	78.14	35.07	34.07	1.00	43.84	Blaine Tech
	12/3/2014	78.14	35.10	33.98	1.12	43.90	Blaine Tech
	12/12/2014	78.14	35.22	34.30	0.92	43.63	Blaine Tech
	12/19/2014	78.14	35.05	34.50	0.55	43.51	Blaine Tech
	4/20/2015	78.14	35.19	34.47	0.72	43.50	Blaine Tech
	6/25/2015	78.14	36.35	35.40	0.95	42.52	Blaine Tech
	10/20/2015	78.14	35.40	35.38	0.02	42.76	Kinder Morgan

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	3/16/2016	78.14	38.99	---	---	39.15	Kinder Morgan
	4/12/2016	78.14	37.15	---	---	40.99	Kinder Morgan
	6/29/2016	78.14	38.40	---	---	39.74	Blaine Tech
	8/22/2016	78.14	38.44	---	---	39.70	Blaine Tech
	10/3/2016	78.14	38.70	---	---	39.44	Blaine Tech
	4/17/2017	78.14	35.23	--	---	42.91	Blaine Tech
GMW-36	3/12/2007	74.53	24.29	---	---	50.24	Secor
	4/30/2007	74.53	24.40	---	---	50.13	Secor
	8/28/2007	74.53	24.31	---	---	50.22	Stantec
	11/12/2007	74.53	24.86	24.85	0.01	49.68	Stantec
	2/19/2008	74.53	25.50	---	---	49.03	Stantec
	4/14/2008	74.53	24.61	---	---	49.92	Stantec
	8/8/2008	74.53	26.20	26.14	0.06	48.38	Envent
	10/16/2008	74.77	26.11	26.09	0.02	48.68	Envent
	12/18/2008	74.53	28.70	28.65	0.05	45.87	Envent
	1/15/2009	74.53	27.73	27.45	0.28	47.02	Envent
	2/20/2009	74.53	26.39	26.35	0.04	48.17	Envent
	2/23/2009	74.53	26.13	25.80	0.33	48.66	Blaine Tech
	3/24/2009	74.53	29.83	---	---	44.70	Envent
	4/20/2009	74.53	25.63	25.59	0.04	48.93	Blaine Tech
	7/17/2009	74.53	27.40	---	---	47.13	Envent
	7/20/2009	74.53	25.90	---	---	48.63	Blaine Tech
	7/21/2009	74.53	26.03	---	---	48.50	Envent
	7/22/2009	74.53	25.90	---	---	48.63	Blaine Tech
	10/19/2009	74.53	26.56	26.45	0.11	48.06	Blaine Tech
	2/4/2010	74.53	26.93	26.80	0.13	47.70	Kinder Morgan
	3/15/2010	74.53	26.80	---	---	47.73	Blaine Tech
	4/16/2010	74.53	26.90	---	---	47.63	Blaine Tech
	5/24/2010	74.53	25.96	25.90	0.06	48.62	Blaine Tech
	5/28/2010	74.53	25.94	25.88	0.06	48.64	Blaine Tech
	6/22/2010	74.53	25.94	25.91	0.03	48.61	Blaine Tech
	7/12/2010	74.53	NM	---	---	NC	
	8/12/2010	74.53	NM	---	---	NC	
	9/20/2010	74.53	NM	---	---	NC	
	10/4/2010	74.53	26.90	---	---	47.63	
	10/24/2010	74.53	26.90	---	---	47.63	Blaine Tech
	11/23/2010	74.53	27.35	27.10	0.25	47.38	Blaine Tech
	12/22/2010	74.53	28.35	26.84	1.51	47.39	Blaine Tech
	1/10/2011	74.53	29.10	27.70	1.40	46.55	Blaine Tech
	2/24/2011	74.53	NM	---	---	NC	Blaine Tech
	3/23/2011	74.53	NM	---	---	NC	Blaine Tech
	4/12/2011	74.53	26.98	25.05	1.93	49.09	Blaine Tech
	5/13/2011	74.53	NM	---	---	NC	Blaine Tech
	6/22/2011	74.53	NM	---	---	NC	
	7/11/2011	74.53	NM	---	---	NC	
	8/19/2011	74.53	NM	---	---	NC	
	9/22/2011	74.53	NM	---	---	NC	
	10/10/2011	74.53	25.96	---	---	48.57	Blaine Tech
	11/28/2011	74.53	NM	---	---	NC	
	12/2/2011	74.53	26.71	---	---	47.82	Kinder Morgan
	12/21/2011	74.53	28.17	---	---	46.36	Blaine Tech
	1/9/2012	74.53	27.26	---	---	47.27	Blaine Tech
	2/23/2012	74.53	27.85	---	---	46.68	Blaine Tech
	3/28/2012	74.53	NM	---	---	NC	Blaine Tech
	4/16/2012	74.53	27.34	---	---	47.19	Blaine Tech
	5/25/2012	74.53	NM	---	---	NC	Blaine Tech
	6/15/2012	---	33.27	---	---	NC	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	7/9/2012	---	33.71	---	---	NC	Blaine Tech
	8/29/2012	---	NM	---	---	NC	Blaine Tech
	9/26/2012	---	NM	---	---	NC	Blaine Tech
	10/15/2012	76.66	32.11	---	---	44.55	Blaine Tech
	11/29/2012	76.66	33.93	31.68	2.25	44.53	Blaine Tech
	12/26/2012	76.66	34.86	30.36	4.50	45.40	Blaine Tech
	1/14/2013	76.66	34.12	30.42	3.70	45.50	Blaine Tech
	2/20/2013	76.66	NM	---	---	NC	Blaine Tech
	4/10/2013	76.66	32.42	29.75	2.67	46.38	Blaine Tech
	10/7/2013	76.66	34.65	30.72	3.93	45.15	Blaine Tech
	4/25/2014	76.66	34.71	31.12	3.59	44.82	Blaine Tech
	5/20/2014	76.66	34.95	31.50	3.45	44.47	Nieto & Sons
	5/27/2014	76.66	34.53	31.29	3.24	44.72	Nieto & Sons
	6/4/2014	76.66	34.93	31.50	3.43	44.47	Nieto & Sons
	8/13/2014	76.66	34.86	31.27	3.59	44.67	Blaine Tech
	8/19/2014	76.66	34.20	31.39	2.81	44.71	Blaine Tech
	8/29/2014	76.66	34.31	31.32	2.99	44.74	Blaine Tech
	9/5/2014	76.66	34.35	31.37	2.98	44.69	Blaine Tech
	9/11/2014	76.66	35.00	31.23	3.77	44.68	Blaine Tech
	9/18/2014	76.66	34.42	31.50	2.92	44.58	Blaine Tech
	9/26/2014	76.66	34.15	31.48	2.67	44.65	Blaine Tech
	10/1/2014	76.66	33.51	31.61	1.90	44.67	Blaine Tech
	10/6/2014	76.66	33.29	31.63	1.66	44.70	Blaine Tech
	10/14/2014	76.66	33.48	31.55	1.93	44.72	Blaine Tech
	10/23/2014	76.66	33.64	31.57	2.07	44.68	Blaine Tech
	10/27/2014	76.66	33.02	31.79	1.23	44.62	Blaine Tech
	11/3/2014	76.66	33.75	31.57	2.18	44.65	Blaine Tech
	11/18/2014	76.66	33.17	31.75	1.42	44.63	Blaine Tech
	11/25/2014	76.66	33.13	31.86	1.27	44.55	Blaine Tech
	12/3/2014	76.66	32.93	31.75	1.18	44.67	Blaine Tech
	4/20/2015	76.66	33.64	32.20	1.44	44.17	Blaine Tech
	10/21/2015	76.66	33.55	33.16	0.39	43.42	Blaine Tech
	4/12/2016	76.66	34.30	34.03	0.27	42.58	Kinder Morgan
	10/3/2016	76.66	35.05	34.65	0.40	41.93	Blaine Tech
	3/9/2017	76.66	33.45	---	---	43.21	CH2M
	4/17/2017	76.66	32.96	--	---	43.70	Blaine Tech
GMW-O-11	4/30/2007	74.17	23.91	23.90	0.01	50.27	Secor
	11/12/2007	74.17	24.40	---	---	49.77	Stantec
	8/15/2008	74.17	29.30	---	---	44.87	Envent
	10/17/2008	74.17	24.45	---	---	49.72	Envent
	12/19/2008	74.17	24.85	---	---	49.32	Envent
	1/15/2009	74.17	26.87	24.38	2.49	49.29	Envent
	2/24/2009	74.17	24.31	24.21	0.10	49.94	Envent
	3/27/2009	74.17	31.08	---	---	43.09	Envent
	4/21/2009	74.17	25.36	25.34	0.02	48.83	Envent
	7/21/2009	74.17	26.18	---	---	47.99	Envent
	10/19/2009	74.17	NM	---	---	NC	Blaine Tech
	11/6/2009	74.17	26.33	26.18	0.15	47.96	Kinder Morgan
	10/4/2010	74.17	30.00	---	---	44.17	Blaine Tech
	4/13/2011	74.17	24.19	---	---	49.98	Blaine Tech
	10/10/2011	74.17	24.38	---	---	49.79	Blaine Tech
	4/16/2012	74.17	NM	---	---	NC	Blaine Tech
	7/9/2012	74.17	NM	---	---	NC	Blaine Tech
	10/15/2012	74.17	28.12	---	---	46.05	Blaine Tech
	4/8/2013	74.17	NM	---	---	NC	Blaine Tech
	9/24/2013	74.17	31.25	28.15	3.10	45.40	Blaine Tech
	10/7/2013	74.17	31.19	27.69	3.50	45.78	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	4/25/2014	74.17	28.96	28.62	0.34	45.48	Blaine Tech
	9/5/2014	74.17	31.13	27.89	3.24	45.63	Blaine Tech
	9/11/2014	74.17	31.12	27.85	3.27	45.67	Blaine Tech
	9/18/2014	74.17	31.22	27.85	3.37	45.65	Blaine Tech
	9/26/2014	74.17	31.34	27.91	3.43	45.57	Blaine Tech
	10/1/2014	74.17	31.19	27.84	3.35	45.66	Blaine Tech
	10/6/2014	74.17	32.19	27.84	4.35	45.46	Blaine Tech
	10/14/2014	74.17	31.18	28.85	2.33	44.85	Blaine Tech
	10/23/2014	74.17	31.34	27.85	3.49	45.62	Blaine Tech
	10/27/2014	74.17	31.28	28.89	2.39	44.80	Blaine Tech
	11/3/2014	74.17	32.34	27.83	4.51	45.44	Blaine Tech
	11/10/2014	74.17	31.46	27.97	3.49	45.50	Blaine Tech
	11/18/2014	74.17	31.41	27.88	3.53	45.58	Blaine Tech
	11/25/2014	74.17	31.48	27.87	3.61	45.58	Blaine Tech
	12/3/2014	74.17	33.34	29.95	3.39	43.54	Blaine Tech
	12/12/2014	74.17	33.25	29.08	4.17	44.26	Blaine Tech
	12/19/2014	74.17	32.52	28.09	4.43	45.19	Blaine Tech
	4/22/2015	74.17	31.54	28.10	3.44	45.38	Blaine Tech
	10/22/2015	74.17	33.08	29.23	3.85	44.17	Kinder Morgan
	3/16/2016	74.17	33.39	33.16	0.23	40.96	Kinder Morgan
	4/12/2016	74.17	33.33	33.12	0.21	41.01	Kinder Morgan
	6/30/2016	74.17	31.50	---	---	42.67	Kinder Morgan
	8/22/2016	74.17	32.75	32.74	0.01	41.43	Kinder Morgan
	10/3/2016	74.17	32.72	32.71	0.01	41.46	Kinder Morgan
	3/24/2017	74.17	31.50	30.45	1.05	43.51	CH2M
	4/17/2017	74.17	30.12	29.96	0.16	44.18	Blaine Tech
GMW-O-12	4/30/2007	73.49	22.81	---	---	50.68	Secor
	11/12/2007	73.49	23.13	---	---	50.36	Stantec
	4/14/2008	73.49	23.36	---	---	50.13	Stantec
	10/13/2008	73.49	24.20	---	---	49.29	Stantec
	4/20/2009	73.49	24.21	---	---	49.28	Blaine Tech
	10/19/2009	73.49	25.08	---	---	48.41	Blaine Tech
	5/24/2010	73.49	24.80	---	---	48.69	Blaine Tech
	5/28/2010	73.49	24.74	---	---	48.75	Blaine Tech
	10/4/2010	73.49	25.31	25.20	0.11	48.27	Blaine Tech
	1/10/2011	73.49	26.42	26.32	0.10	47.15	Blaine Tech
	4/11/2011	73.49	24.04	---	---	49.45	Blaine Tech
	7/11/2011	73.49	NM	---	---	NC	
	10/10/2011	73.49	24.68	---	---	48.81	Blaine Tech
	1/9/2012	73.49	25.12	---	---	48.37	Blaine Tech
	4/16/2012	73.49	25.40	---	---	48.09	Blaine Tech
	7/9/2012	73.49	26.96	---	---	46.53	Blaine Tech
	10/15/2012	73.49	25.48	25.44	0.04	48.04	Blaine Tech
	1/14/2013	73.49	25.62	25.58	0.04	47.90	Blaine Tech
	4/8/2013	73.49	26.60	26.51	0.09	46.96	Blaine Tech
	9/24/2013	73.49	27.90	27.74	0.16	45.72	Blaine Tech
	10/7/2013	73.49	27.34	27.28	0.06	46.20	Blaine Tech
	4/14/2014	73.49	30.34	26.80	3.54	45.96	Blaine Tech
	5/6/2014	73.49	30.93	26.74	4.19	45.89	Nieto & Sons
	5/12/2014	73.49	30.81	26.82	3.99	45.85	Nieto & Sons
	5/20/2014	73.49	31.78	27.32	4.46	45.26	Nieto & Sons
	5/27/2014	73.49	33.04	26.78	6.26	45.43	Nieto & Sons
	6/4/2014	73.49	33.00	27.75	5.25	44.66	Nieto & Sons
	6/10/2014	73.49	34.53	26.81	7.72	45.10	Nieto & Sons
	7/3/2014	73.49	34.27	26.94	7.33	45.05	Blaine Tech
	7/8/2014	73.49	33.87	26.87	7.00	45.19	Blaine Tech
	7/18/2014	73.49	33.36	27.07	6.29	45.13	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	7/24/2014	73.49	33.00	26.98	6.02	45.28	Blaine Tech
	8/1/2014	73.49	31.80	26.83	4.97	45.64	Blaine Tech
	8/8/2014	73.49	31.26	26.91	4.35	45.69	Blaine Tech
	8/13/2014	73.49	31.18	26.88	4.30	45.73	Blaine Tech
	8/19/2014	73.49	31.01	26.86	4.15	45.78	Blaine Tech
	8/29/2014	73.49	31.03	26.89	4.14	45.75	Blaine Tech
	9/5/2014	73.49	31.19	26.88	4.31	45.73	Blaine Tech
	9/18/2014	73.49	31.30	26.82	4.48	45.75	Blaine Tech
	9/26/2014	73.49	31.33	26.89	4.44	45.69	Blaine Tech
	10/1/2014	73.49	31.21	26.85	4.36	45.75	Blaine Tech
	10/6/2014	73.49	31.20	29.84	1.36	43.37	Blaine Tech
	10/14/2014	73.49	31.14	26.86	4.28	45.75	Blaine Tech
	10/23/2014	73.49	31.30	26.85	4.45	45.73	Blaine Tech
	10/27/2014	73.49	31.28	26.90	4.38	45.69	Blaine Tech
	11/3/2014	73.49	32.30	26.84	5.46	45.53	Blaine Tech
	11/10/2014	73.49	31.45	26.91	4.54	45.65	Blaine Tech
	11/18/2014	73.49	32.34	26.90	5.44	45.47	Blaine Tech
	11/25/2014	73.49	31.57	27.87	3.70	44.86	Blaine Tech
	12/3/2014	73.49	33.87	28.81	5.06	43.64	Blaine Tech
	12/19/2014	73.49	32.78	26.97	5.81	45.33	Blaine Tech
	4/20/2015	73.49	33.35	26.91	6.44	45.26	Blaine Tech
	4/22/2015	73.49	33.35	26.91	6.44	45.26	Blaine Tech
	5/21/2015	73.49	34.31	27.35	6.96	44.71	Northstar
	5/29/2015	73.49	34.15	27.24	6.91	44.83	Northstar
	6/2/2015	73.49	34.00	27.27	6.73	44.84	Northstar
	6/5/2015	73.49	34.00	27.50	6.50	44.66	Northstar
	6/12/2015	73.49	33.96	27.35	6.61	44.78	Northstar
	6/19/2015	73.49	33.98	27.58	6.40	44.60	Northstar
	6/26/2015	73.49	33.97	28.15	5.82	44.15	Northstar
	7/2/2015	73.49	33.83	28.20	5.63	44.14	Northstar
	7/7/2015	73.49	33.60	27.93	5.67	44.40	Northstar
	7/17/2015	73.49	33.57	27.85	5.72	44.47	Northstar
	7/24/2015	73.49	33.15	28.25	4.90	44.24	Northstar
	7/29/2015	73.49	33.02	28.10	4.92	44.38	Northstar
	8/11/2015	73.49	33.00	28.90	4.10	43.75	Northstar
	8/18/2015	73.49	32.65	28.23	4.42	44.35	Northstar
	8/28/2015	73.49	32.41	28.17	4.24	44.45	Kinder Morgan
	9/1/2015	73.49	33.18	28.65	4.53	43.91	Kinder Morgan
	9/25/2015	73.49	34.69	28.03	6.66	44.09	Kinder Morgan
	10/16/2015	73.49	34.63	27.83	6.80	44.27	Kinder Morgan
	10/19/2015	73.49	34.65	27.82	6.83	44.27	Blaine Tech
	10/30/2015	73.49	39.38	28.11	11.27	43.07	Kinder Morgan
	3/14/2016	73.49	32.40	31.60	0.80	41.73	Blaine Tech
	4/11/2016	73.49	33.35	26.86	6.49	45.30	Blaine Tech
	6/29/2016	73.49	33.90	33.10	0.80	40.23	Blaine Tech
	8/22/2016	73.49	33.56	31.07	2.49	41.91	Blaine Tech
	10/3/2016	73.49	34.20	31.90	2.30	41.12	Blaine Tech
	4/17/2017	73.49	32.90	28.70	4.20	43.95	Blaine Tech
GMW-O-15	4/30/2007	74.23	23.41	23.30	0.11	50.91	Secor
	11/12/2007	74.23	23.95	23.85	0.10	50.36	Stantec
	4/14/2008	74.23	23.64	---	---	50.59	Stantec
	8/8/2008	74.23	24.60	---	---	49.63	Envent
	8/11/2008	74.23	24.40	24.34	0.06	49.88	Stantec
	10/16/2008	74.23	24.53	---	---	49.70	Envent
	12/18/2008	74.23	24.86	---	---	49.37	Envent
	1/2/2009	74.23	24.82	---	---	49.41	Envent
	1/15/2009	74.23	26.01	---	---	48.22	Envent
	2/20/2009	74.23	24.80	---	---	49.43	Envent

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	2/23/2009	74.23	24.76	24.74	0.02	49.49	Blaine Tech
	3/24/2009	74.23	25.55	---	---	48.68	Envent
	4/20/2009	74.23	24.66	24.61	0.05	49.61	Blaine Tech
	7/17/2009	74.23	25.01	---	---	49.22	Envent
	7/20/2009	74.23	24.99	24.94	0.05	49.28	Blaine Tech
	7/22/2009	74.23	24.99	24.94	0.05	49.28	Blaine Tech
	10/19/2009	74.23	25.55	25.43	0.12	48.78	Blaine Tech
	2/4/2010	74.23	25.50	25.48	0.02	48.75	Kinder Morgan
	3/15/2010	74.23	NM	---	---	NC	
	4/16/2010	74.23	23.10	---	---	51.13	Blaine Tech
	5/24/2010	74.23	25.67	---	---	48.56	Blaine Tech
	5/28/2010	74.23	25.35	---	---	48.88	Blaine Tech
	6/22/2010	74.23	25.81	---	---	48.42	Blaine Tech
	7/12/2010	74.23	NM	---	---	NC	
	8/12/2010	74.23	NM	---	---	NC	
	9/20/2010	74.23	NM	---	---	NC	
	10/4/2010	74.23	25.85	25.80	0.05	48.42	Blaine Tech
	11/23/2010	74.23	NM	---	---	NC	Blaine Tech
	12/22/2010	74.23	26.31	---	---	47.92	Blaine Tech
	1/10/2011	74.23	25.97	---	---	48.26	Blaine Tech
	2/24/2011	74.23	NM	---	---	NC	Blaine Tech
	3/23/2011	74.23	NM	---	---	NC	Blaine Tech
	4/12/2011	74.23	22.55	22.53	0.02	51.70	Blaine Tech
	5/13/2011	74.23	NM	---	---	NC	Blaine Tech
	6/22/2011	74.23	NM	---	---	NC	
	7/11/2011	74.23	NM	---	---	NC	
	8/19/2011	74.23	NM	---	---	NC	
	9/22/2011	74.23	NM	---	---	NC	
	10/10/2011	74.23	23.79	23.22	0.57	50.90	Blaine Tech
	11/28/2011	74.23	NM	---	---	NC	
	12/2/2011	74.23	23.92	23.86	0.06	50.36	Kinder Morgan
	12/21/2011	74.23	31.13	---	---	43.10	Blaine Tech
	1/9/2012	74.23	27.67	---	---	46.56	Blaine Tech
	2/23/2012	74.23	31.82	---	---	42.41	Blaine Tech
	3/28/2012	74.23	30.30	---	---	43.93	Blaine Tech
	4/16/2012	74.23	26.56	26.51	0.05	47.71	Blaine Tech
	5/25/2012	74.23	26.64	---	---	47.59	Blaine Tech
	6/15/2012	74.23	26.93	---	---	47.30	Blaine Tech
	7/9/2012	74.23	25.47	---	---	48.76	Blaine Tech
	8/29/2012	74.23	NM	---	---	NC	Blaine Tech
	9/26/2012	74.23	30.64	---	---	43.59	Blaine Tech
	10/15/2012	74.23	31.82	---	---	42.41	Blaine Tech
	11/29/2012	74.23	NM	---	---	NC	Blaine Tech
	12/26/2012	74.23	27.41	---	---	46.82	Blaine Tech
	1/14/2013	74.23	27.62	---	---	46.61	Blaine Tech
	2/20/2013	74.23	NM	---	---	NC	Blaine Tech
	4/10/2013	74.23	NM	---	---	NC	Blaine Tech
	4/26/2013	74.23	27.90	---	---	46.33	Kinder Morgan
	10/7/2013	74.23	29.03	28.26	0.77	45.82	Blaine Tech
	4/18/2014	74.23	28.40	28.08	0.32	46.09	Blaine Tech
	8/14/2014	74.23	32.59	28.26	4.33	45.10	Blaine Tech
	8/19/2014	74.23	32.34	28.23	4.11	45.18	Blaine Tech
	8/29/2014	74.23	31.84	28.25	3.59	45.26	Blaine Tech
	9/5/2014	74.23	31.91	28.29	3.62	45.22	Blaine Tech
	9/11/2014	74.23	32.16	28.79	3.37	44.77	Blaine Tech
	9/18/2014	74.23	32.50	28.23	4.27	45.15	Blaine Tech
	9/26/2014	74.23	32.20	28.27	3.93	45.17	Blaine Tech
	10/1/2014	74.23	31.93	28.28	3.65	45.22	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/6/2014	74.23	31.91	28.27	3.64	45.23	Blaine Tech
	10/14/2014	74.23	31.85	28.29	3.56	45.23	Blaine Tech
	10/23/2014	74.23	32.10	28.30	3.80	45.17	Blaine Tech
	10/27/2014	74.23	31.89	28.30	3.59	45.21	Blaine Tech
	11/18/2014	74.23	31.86	28.39	3.47	45.15	Blaine Tech
	11/25/2014	74.23	32.36	28.35	4.01	45.08	Blaine Tech
	12/3/2014	74.23	31.73	28.36	3.37	45.20	Blaine Tech
	12/12/2014	74.23	32.61	28.54	4.07	44.88	Blaine Tech
	12/19/2014	74.23	32.62	28.37	4.25	45.01	Blaine Tech
	4/20/2015	74.23	31.93	28.82	3.11	44.79	Blaine Tech
	10/19/2015	74.23	31.91	28.89	3.02	44.74	Blaine Tech
	4/12/2016	74.23	29.78	---	---	44.45	Kinder Morgan
	10/3/2016	74.86	31.00	30.92	0.08	43.92	Kinder Morgan
	3/9/2017	74.86	29.94	---	---	44.92	CH2M
	4/17/2017	74.86	29.65	29.52	0.13	45.31	Blaine Tech
GMW-O-18	4/30/2007	74.36	24.21	---	---	50.15	Secor
	11/12/2007	74.36	22.46	---	---	51.90	Secor
	4/14/2008	74.36	24.50	---	---	49.86	Secor
	10/13/2008	74.36	25.46	---	---	48.90	Stantec
	4/20/2009	74.36	25.59	---	---	48.77	Blaine Tech
	10/19/2009	74.36	26.31	---	---	48.05	Blaine Tech
	3/15/2010	74.36	26.54	---	---	47.82	Blaine Tech
	4/16/2010	74.36	24.25	---	---	50.11	Blaine Tech
	5/24/2010	74.36	26.26	---	---	48.10	Blaine Tech
	5/28/2010	74.36	26.03	---	---	48.33	Blaine Tech
	6/22/2010	74.36	26.41	---	---	47.95	
	7/12/2010	74.36	NM	---	---	NC	
	8/12/2010	74.36	NM	---	---	NC	
	9/20/2010	74.36	NM	---	---	NC	
	10/4/2010	74.36	29.95	---	---	44.41	Blaine Tech
	11/16/2010	74.36	NM	---	---	NC	
	12/22/2010	74.36	NM	---	---	NC	
	1/10/2011	74.36	NM	---	---	NC	
	2/24/2011	74.36	NM	---	---	NC	Blaine Tech
	3/23/2011	74.36	NM	---	---	NC	Blaine Tech
	4/12/2011	74.36	NM	---	---	NC	Blaine Tech
	5/13/2011	74.36	NM	---	---	NC	Blaine Tech
	6/22/2011	74.36	NM	---	---	NC	
	7/11/2011	74.36	NM	---	---	NC	
	8/19/2011	74.36	NM	---	---	NC	
	9/22/2011	74.36	NM	---	---	NC	
	10/10/2011	74.36	23.68	---	---	50.68	Blaine Tech
	11/28/2011	74.36	NM	---	---	NC	
	12/2/2011	74.36	24.22	---	---	50.14	Blaine Tech
	12/21/2011	74.36	27.14	---	---	47.22	Blaine Tech
	2/23/2012	74.36	31.18	---	---	43.18	Blaine Tech
	3/28/2012	74.36	NM	---	---	NC	Blaine Tech
	4/16/2012	74.36	27.10	---	---	47.26	Blaine Tech
	5/25/2012	74.36	27.31	---	---	47.05	Blaine Tech
	6/15/2012	74.36	35.13	---	---	39.23	Blaine Tech
	7/9/2012	74.36	29.51	---	---	44.85	Blaine Tech
	8/29/2012	74.36	NM	---	---	NC	Blaine Tech
	9/26/2012	74.36	30.83	---	---	43.53	Blaine Tech
	10/15/2012	74.36	29.73	---	---	44.63	Blaine Tech
	11/29/2012	74.36	NM	---	---	NC	Blaine Tech
	12/26/2012	74.36	28.87	---	---	45.49	Blaine Tech
	1/14/2013	74.36	28.92	---	---	45.44	Blaine Tech
	2/20/2013	74.36	NM	---	---	NC	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	4/10/2013	74.36	28.10	---	---	46.26	Blaine Tech
	10/7/2013	74.36	26.67	---	---	47.69	Blaine Tech
	4/18/2014	74.36	29.43	29.37	0.06	44.98	Blaine Tech
	8/14/2014	74.36	29.87	29.45	0.42	44.83	Blaine Tech
	8/19/2014	74.36	29.97	29.58	0.39	44.70	Blaine Tech
	8/29/2014	74.36	29.77	29.34	0.43	44.93	Blaine Tech
	9/11/2014	74.36	29.96	29.61	0.35	44.68	Blaine Tech
	9/18/2014	74.36	29.95	29.56	0.39	44.72	Blaine Tech
	9/26/2014	74.36	29.97	29.55	0.42	44.73	Blaine Tech
	10/1/2014	74.36	29.90	29.52	0.38	44.76	Blaine Tech
	10/6/2014	74.36	29.94	29.56	0.38	44.72	Blaine Tech
	10/14/2014	74.36	29.94	29.58	0.36	44.71	Blaine Tech
	10/23/2014	74.36	30.00	29.62	0.38	44.66	Blaine Tech
	10/27/2014	74.36	29.95	29.52	0.43	44.75	Blaine Tech
	4/20/2015	74.36	28.53	---	---	45.83	Blaine Tech
	10/19/2015	74.36	30.90	---	---	43.46	Blaine Tech
	4/12/2016	74.36	31.63	---	---	42.73	Blaine Tech
	12/13/2016	74.32	35.95	31.01	4.94	42.32	Blaine Tech
	12/14/2016	74.32	32.60	---	---	41.72	Blaine Tech
	3/6/2017	74.32	33.40	32.60	0.80	41.56	CH2M
	4/17/2017	74.32	31.83	31.80	0.03	42.51	Blaine Tech
GMW-O-20	8/15/2008	73.32	25.90	---	---	47.42	Envent
	10/17/2008	73.32	25.82	---	---	47.50	Envent
	12/19/2008	73.32	27.15	---	---	46.17	Envent
	1/15/2009	73.32	26.53	26.09	0.44	47.15	Envent
	2/24/2009	73.32	27.85	---	---	45.47	Envent
	3/20/2009	73.32	28.81	---	---	44.51	Envent
	3/27/2009	73.32	27.84	---	---	45.48	Envent
	4/21/2009	73.32	28.70	---	---	44.62	Envent
	7/21/2009	73.32	24.10	---	---	49.22	Envent
	10/19/2009	73.32	NM	---	---	NC	Blaine Tech
	11/9/2009	73.32	25.60	25.40	0.20	47.88	Kinder Morgan
	6/22/2010	73.32	24.76	24.66	0.10	48.64	Blaine Tech
	10/4/2010	73.32	31.20	31.10	0.10	42.20	Blaine Tech
	1/10/2011	73.32	26.62	26.48	0.14	46.81	Blaine Tech
	4/11/2011	73.32	23.82	---	---	49.50	Blaine Tech
	7/11/2011	73.32	NM	---	---	NC	
	10/10/2011	73.32	24.05	---	---	49.27	Blaine Tech
	1/9/2012	73.32	24.68	---	---	48.64	Blaine Tech
	4/16/2012	73.32	26.18	---	---	47.14	Blaine Tech
	7/9/2012	73.32	32.92	---	---	40.40	Blaine Tech
	10/15/2012	73.32	32.97	32.95	0.02	40.37	Blaine Tech
	1/14/2013	73.32	32.98	32.93	0.05	40.38	Blaine Tech
	4/8/2013	73.32	29.63	26.46	3.17	46.27	Blaine Tech
	9/24/2013	73.32	31.10	27.20	3.90	45.40	Blaine Tech
	10/7/2013	73.32	32.09	27.06	5.03	45.33	Blaine Tech
	4/25/2014	73.32	28.48	28.40	0.08	44.91	Blaine Tech
	9/18/2014	73.32	30.71	27.72	2.99	45.05	Blaine Tech
	9/26/2014	73.32	30.87	27.75	3.12	44.99	Blaine Tech
	10/1/2014	73.32	30.52	27.65	2.87	45.14	Blaine Tech
	10/6/2014	73.32	30.50	27.66	2.84	45.13	Blaine Tech
	10/14/2014	73.32	30.63	27.62	3.01	45.14	Blaine Tech
	10/23/2014	73.32	30.80	27.70	3.10	45.05	Blaine Tech
	10/27/2014	73.32	30.70	27.76	2.94	45.02	Blaine Tech
	11/3/2014	73.32	30.81	27.62	3.19	45.11	Blaine Tech
	11/10/2014	73.32	30.94	27.75	3.19	44.98	Blaine Tech
	11/18/2014	73.32	30.91	27.65	3.26	45.07	Blaine Tech
	11/25/2014	73.32	30.95	27.65	3.30	45.06	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	12/3/2014	73.32	32.56	27.83	4.73	44.61	Blaine Tech
	12/19/2014	73.32	31.72	27.93	3.79	44.69	Blaine Tech
	4/22/2015	73.32	32.25	27.98	4.27	44.55	Blaine Tech
	10/22/2015	73.32	31.36	29.38	1.98	43.57	Kinder Morgan
	3/16/2016	73.32	32.54	---	---	40.78	Kinder Morgan
	4/12/2016	73.32	32.48	---	---	40.84	Kinder Morgan
	6/29/2016	73.32	32.50	---	---	40.82	Blaine Tech
	8/22/2016	73.32	32.18	---	---	41.14	Blaine Tech
	10/3/2016	73.32	33.12	---	---	40.20	Blaine Tech
	3/23/2017	73.32	30.35	---	---	42.97	CH2M
	4/17/2017	73.32	29.70	--	--	43.62	Blaine Tech
GMW-O-21	12/28/2007	71.43	27.67	---	---	43.76	Geomatrix
	8/15/2008	73.94	NM	---	---	NC	Envent
	10/17/2008	71.43	26.00	---	---	45.43	Envent
	12/19/2008	71.43	24.82	---	---	46.61	Envent
	3/27/2009	71.43	26.41	---	---	45.02	Envent
	7/21/2009	71.43	24.88	---	---	46.55	Envent
	10/19/2009	71.43	NM	---	---	NC	Blaine Tech
	11/9/2009	71.43	25.02	---	---	46.41	Kinder Morgan
	10/4/2010	71.43	25.40	---	---	46.03	Blaine Tech
	4/13/2011	71.43	23.72	---	---	47.71	Blaine Tech
	10/10/2011	71.43	24.65	---	---	46.78	Blaine Tech
	4/16/2012	71.43	NM	---	---	NC	Blaine Tech
	7/9/2012	71.43	NM	---	---	NC	Blaine Tech
	10/15/2012	71.43	32.50	---	---	38.93	Blaine Tech
	4/8/2013	71.43	NM	---	---	NC	Blaine Tech
	9/25/2013	71.43	29.25	---	---	42.18	Blaine Tech
	10/7/2013	71.43	NM	---	---	NC	Blaine Tech
	4/14/2014	71.43	28.65	28.61	0.04	42.81	Blaine Tech
	9/5/2014	71.43	29.61	28.78	0.83	42.48	Blaine Tech
	9/26/2014	71.43	29.85	28.77	1.08	42.44	Blaine Tech
	10/1/2014	71.43	29.79	28.64	1.15	42.56	Blaine Tech
	10/6/2014	71.43	29.40	28.72	0.68	42.57	Blaine Tech
	10/27/2014	71.43	29.75	28.93	0.82	42.34	Blaine Tech
	11/10/2014	71.43	29.98	28.95	1.03	42.27	Blaine Tech
	11/18/2014	71.43	30.05	28.92	1.13	42.28	Blaine Tech
	11/25/2014	71.43	29.73	28.85	0.88	42.40	Blaine Tech
	12/12/2014	71.43	30.61	29.02	1.59	42.09	Blaine Tech
	12/19/2014	71.43	30.62	29.04	1.58	42.07	Blaine Tech
	4/20/2015	71.43	30.15	28.99	1.16	42.21	Blaine Tech
	6/10/2015	71.43	31.00	30.70	0.30	40.67	Blaine Tech
	7/2/2015	71.43	32.30	29.88	2.42	41.07	Northstar
	7/7/2015	71.43	30.65	30.06	0.59	41.25	Northstar
	7/17/2015	71.43	30.40	30.10	0.30	41.27	Northstar
	7/29/2015	71.43	30.40	30.10	0.30	41.27	Northstar
	8/11/2015	71.43	31.00	30.70	0.30	40.67	Northstar
	10/19/2015	71.43	31.43	31.20	0.23	40.18	Blaine Tech
	3/14/2016	71.43	33.20	33.17	0.03	38.25	Blaine Tech
	4/11/2016	71.43	32.17	31.84	0.33	39.52	Blaine Tech
	6/29/2016	71.43	33.03	32.83	0.20	38.56	Blaine Tech
	8/22/2016	71.43	33.72	---	---	37.71	Blaine Tech
	10/3/2016	71.43	33.45	---	---	37.98	Blaine Tech
	4/17/2017	71.43	30.48	--	--	40.95	Blaine Tech
GMW-O-23	8/14/2007	73.63	23.33	---	---	50.30	Geomatrix
	8/21/2007	73.63	23.31	---	---	50.32	Geomatrix
	8/28/2007	73.63	23.00	---	---	50.63	Stantec
	9/11/2007	73.63	23.42	---	---	50.21	Geomatrix
	10/5/2007	73.63	27.79	---	---	45.84	Geomatrix

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	11/2/2007	73.63	25.15	---	---	48.48	Geomatrix
	11/13/2007	73.63	23.90	---	---	49.73	Stantec
	12/28/2007	73.63	24.91	---	---	48.72	Geomatrix
	8/15/2008	73.63	26.28	---	---	47.35	Envent
	10/17/2008	73.63	27.16	---	---	46.47	Envent
	12/19/2008	73.63	27.60	---	---	46.03	Envent
	1/15/2009	73.63	27.54	---	---	46.09	Envent
	2/24/2009	73.63	26.19	---	---	47.44	Envent
	3/27/2009	73.63	23.74	---	---	49.89	Envent
	4/21/2009	73.63	27.30	---	---	46.33	Envent
	10/19/2009	73.63	NM	---	---	NC	Blaine Tech
	11/9/2009	73.63	27.50	---	---	46.13	Kinder Morgan
	6/22/2010	73.63	32.10	---	---	41.53	Blaine Tech
	10/4/2010	73.63	25.92	---	---	47.71	Blaine Tech
	1/10/2011	73.63	27.45	---	---	46.18	Blaine Tech
	4/11/2011	73.63	25.03	---	---	48.60	Blaine Tech
	7/11/2011	73.63	NM	---	---	NC	
	10/10/2011	73.63	25.25	---	---	48.38	Blaine Tech
	1/9/2012	73.63	25.91	---	---	47.72	Blaine Tech
	4/16/2012	73.63	27.38	---	---	46.25	Blaine Tech
	7/9/2012	73.63	27.41	---	---	46.22	Blaine Tech
	10/15/2012	73.63	26.48	---	---	47.15	Blaine Tech
	1/14/2013	73.63	29.35	---	---	44.28	Blaine Tech
	4/8/2013	73.63	29.81	27.74	2.07	45.48	Blaine Tech
	9/23/2013	73.63	29.90	---	---	43.73	Blaine Tech
	10/7/2013	73.63	32.86	28.30	4.56	44.42	Blaine Tech
	4/25/2014	73.63	29.81	29.66	0.15	43.94	Blaine Tech
	9/5/2014	73.63	32.57	28.76	3.81	44.11	Blaine Tech
	9/11/2014	73.63	32.94	28.63	4.31	44.14	Blaine Tech
	9/18/2014	73.63	32.80	28.65	4.15	44.15	Blaine Tech
	9/26/2014	73.63	32.87	28.70	4.17	44.10	Blaine Tech
	10/1/2014	73.63	32.56	28.75	3.81	44.12	Blaine Tech
	10/6/2014	73.63	32.50	28.73	3.77	44.15	Blaine Tech
	10/14/2014	73.63	32.75	28.20	4.55	44.52	Blaine Tech
	10/23/2014	73.63	32.80	28.69	4.11	44.12	Blaine Tech
	10/27/2014	73.63	32.51	28.80	3.71	44.09	Blaine Tech
	11/3/2014	73.63	32.82	29.68	3.14	43.32	Blaine Tech
	11/10/2014	73.63	32.80	28.78	4.02	44.05	Blaine Tech
	11/18/2014	73.63	32.78	29.78	3.00	43.25	Blaine Tech
	11/25/2014	73.63	32.64	28.78	3.86	44.08	Blaine Tech
	12/3/2014	73.63	33.25	28.94	4.31	43.83	Blaine Tech
	12/12/2014	73.63	32.58	29.33	3.25	43.65	Blaine Tech
	12/19/2014	73.63	32.71	29.37	3.34	43.59	Blaine Tech
	3/17/2015	73.63	30.40	30.00	0.40	43.55	Kinder Morgan
	4/22/2015	73.63	33.08	30.36	2.72	42.73	Blaine Tech
	10/22/2015	73.63	32.82	30.46	2.36	42.70	Kinder Morgan
	3/16/2016	73.63	34.43	---	---	39.20	Kinder Morgan
	4/12/2016	73.63	32.59	---	---	41.04	Kinder Morgan
	6/29/2016	73.63	33.90	---	---	39.73	Blaine Tech
	8/22/2016	73.63	33.89	---	---	39.74	Blaine Tech
	10/3/2016	73.63	34.90	---	---	38.73	Blaine Tech
	3/23/2017	73.63	31.65	---	---	41.98	CH2M
	4/17/2017	73.63	30.88	---	---	42.75	Blaine Tech
GMW-SF-9	4/21/2009	73.00	24.19	---	---	48.81	Envent
	5/24/2010	73.00	28.31	---	---	44.69	Blaine Tech
	5/28/2010	73.00	28.37	---	---	44.63	Blaine Tech
	10/4/2010	73.00	25.28	---	---	47.72	Blaine Tech
	4/11/2011	73.00	23.90	---	---	49.10	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/10/2011	73.00	24.70	---	---	48.30	Blaine Tech
	4/16/2012	73.00	26.99	---	---	46.01	Blaine Tech
	7/9/2012	73.00	NM	---	---	NC	Blaine Tech
	10/15/2012	73.05	34.21	---	---	38.84	Blaine Tech
	1/14/2013	73.05	34.32	---	---	38.73	Blaine Tech
	4/10/2013	73.05	27.37	---	---	45.68	Blaine Tech
	8/14/2014	73.05	29.35	28.37	0.98	44.48	Blaine Tech
	8/19/2014	73.05	28.46	28.44	0.02	44.61	Blaine Tech
	8/29/2014	73.05	29.32	28.31	1.01	44.54	Blaine Tech
	9/5/2014	73.05	29.33	28.29	1.04	44.55	Blaine Tech
	9/11/2014	73.05	29.49	28.47	1.02	44.38	Blaine Tech
	9/18/2014	73.05	28.95	28.91	0.04	44.13	Blaine Tech
	9/26/2014	73.05	28.93	28.59	0.34	44.39	Blaine Tech
	4/20/2015	73.05	29.01	---	---	44.04	Blaine Tech
	10/21/2015	73.05	29.69	---	---	43.36	Blaine Tech
3/6/2017	73.05	28.88	---	---	44.17	CH2M	
GMW-SF-10	4/21/2009	75.77	27.10	---	---	48.67	Envent
	10/4/2010	75.77	28.03	---	---	47.74	Blaine Tech
	4/11/2011	75.77	26.80	---	---	48.97	Blaine Tech
	10/10/2011	75.77	27.60	---	---	48.17	Blaine Tech
	4/16/2012	75.77	28.81	---	---	46.96	Blaine Tech
	7/9/2012	75.77	NM	---	---	NC	Blaine Tech
	10/15/2012	75.77	29.88	---	---	45.89	Blaine Tech
	4/8/2013	75.77	DRY	---	---	NC	Blaine Tech
GWR-3	4/30/2007	74.93	27.97	---	---	46.96	Secor
	11/12/2007	74.93	27.90	---	---	47.03	Stantec
	10/17/2008	74.93	29.88	---	---	45.05	Envent
	12/17/2008	74.93	19.71	---	---	55.22	Envent
	1/15/2009	74.93	29.27	29.26	0.26	45.88	Envent
	3/27/2009	74.93	27.18	---	---	47.75	Envent
	4/21/2009	74.93	29.97	---	---	44.96	Envent
	7/21/2009	74.93	28.77	---	---	46.16	Envent
	10/19/2009	74.93	NM	---	---	NC	Blaine Tech
	10/4/2010	74.93	30.67	---	---	44.26	Blaine Tech
	4/11/2011	74.93	29.94	---	---	44.99	Blaine Tech
	10/10/2011	74.93	29.22	---	---	45.71	Blaine Tech
	4/16/2012	74.93	29.56	---	---	45.37	Blaine Tech
	7/9/2012	---	NM	---	---	NC	Blaine Tech
	10/15/2012	77.6	31.21	---	---	46.39	Blaine Tech
	4/8/2013	77.6	29.21	29.18	0.03	48.41	Blaine Tech
	10/7/2013	77.6	36.20	31.67	4.53	45.16	Blaine Tech
	4/14/2014	77.6	38.80	32.23	6.57	44.25	Blaine Tech
	5/5/2014	77.6	38.81	32.31	6.50	44.18	Nieto & Sons
	5/12/2014	77.6	36.34	32.77	3.57	44.22	Nieto & Sons
	5/27/2014	77.6	36.11	33.20	2.91	43.91	Nieto & Sons
	6/4/2014	77.6	34.57	31.61	2.96	45.49	Nieto & Sons
	8/8/2014	77.6	37.92	33.38	4.54	43.45	Blaine Tech
	8/13/2014	77.6	35.38	33.18	2.20	44.05	Blaine Tech
	8/19/2014	77.6	35.28	33.25	2.03	44.00	Blaine Tech
8/29/2014	77.6	35.72	33.12	2.60	44.04	Blaine Tech	
9/5/2014	77.6	35.68	33.19	2.49	43.99	Blaine Tech	
9/11/2014	77.6	36.05	33.04	3.01	44.05	Blaine Tech	
9/18/2014	77.60	35.34	33.27	2.07	43.98	Blaine Tech	
9/26/2014	77.60	35.25	33.24	2.01	44.02	Blaine Tech	
10/1/2014	77.60	36.44	34.01	2.43	43.18	Blaine Tech	
10/6/2014	77.60	34.71	33.33	1.38	44.04	Blaine Tech	
10/14/2014	77.60	35.15	33.20	1.95	44.07	Blaine Tech	
10/23/2014	77.60	35.36	33.20	2.16	44.03	Blaine Tech	

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/27/2014	77.60	34.68	33.49	1.19	43.91	Blaine Tech
	11/3/2014	77.60	35.43	33.18	2.25	44.04	Blaine Tech
	11/10/2014	77.60	35.02	33.32	1.70	43.99	Blaine Tech
	11/18/2014	77.60	35.05	33.34	1.71	43.97	Blaine Tech
	11/25/2014	77.60	35.04	33.36	1.68	43.95	Blaine Tech
	12/3/2014	77.60	34.95	33.34	1.61	43.99	Blaine Tech
	12/12/2014	77.60	35.11	33.64	1.47	43.71	Blaine Tech
	12/19/2014	77.60	35.55	33.67	1.88	43.61	Blaine Tech
	4/20/2015	77.60	37.25	33.34	3.91	43.60	Blaine Tech
	7/24/2015	77.60	41.30	33.95	7.35	42.40	Northstar
	8/12/2015	77.60	37.03	34.42	2.61	42.74	Northstar
	10/20/2015	77.60	35.98	34.65	1.33	42.72	Blaine Tech
	3/16/2016	77.60	38.60	---	---	39.00	Kinder Morgan
	4/11/2016	77.60	36.90	---	---	40.70	Blaine Tech
	6/29/2016	77.60	37.77	---	---	39.83	Blaine Tech
	8/22/2016	77.60	38.24	---	---	39.36	Blaine Tech
	10/3/2016	77.60	39.20	39.15	0.05	38.44	Blaine Tech
	3/7/2017	77.60	35.62	---	---	41.98	CH2M
	4/17/2017	77.60	34.88	--	--	42.72	Blaine Tech
MW-18 (MID)	4/30/2007	75.67	29.77	---	---	45.90	Secor
	11/12/2007	75.67	30.23	---	---	45.44	Secor
	4/14/2008	75.67	30.45	---	---	45.22	Secor
	10/13/2008	75.67	31.15	---	---	44.52	Stantec
	4/20/2009	75.67	31.49	---	---	44.18	Blaine Tech
	10/19/2009	75.67	32.62	---	---	43.05	Blaine Tech
	5/24/2010	75.67	32.26	---	---	43.41	Blaine Tech
	5/28/2010	75.67	32.17	---	---	43.50	Blaine Tech
	10/4/2010	75.67	32.30	---	---	43.37	Blaine Tech
	4/11/2011	75.67	31.28	---	---	44.39	Blaine Tech
	10/10/2011	75.67	31.51	---	---	44.16	Blaine Tech
	4/16/2012	75.67	31.75	---	---	43.92	Blaine Tech
	7/9/2012	75.67	NM	---	---	NC	Blaine Tech
	10/15/2012	75.67	33.41	---	---	42.26	Blaine Tech
	4/8/2013	75.67	30.68	---	---	44.99	Blaine Tech
	10/7/2013	75.67	35.33	---	---	40.34	Blaine Tech
	4/14/2014	75.67	35.40	---	---	40.27	Blaine Tech
	10/27/2014	75.67	35.81	---	---	39.86	Blaine Tech
	4/20/2015	75.67	36.29	---	---	39.38	Blaine Tech
	10/19/2015	75.67	36.99	---	---	38.68	Blaine Tech
	3/14/2016	75.67	40.70	---	---	34.97	Blaine Tech
	4/11/2016	75.67	38.89	---	---	36.78	Blaine Tech
	6/29/2016	75.67	39.94	---	---	35.73	Blaine Tech
	8/22/2016	75.67	40.14	---	---	35.53	Blaine Tech
	10/3/2016	75.67	40.93	---	---	34.74	Blaine Tech
	4/17/2017	75.67	37.50	--	--	38.17	Blaine Tech
MW-O-1	4/30/2007	75.48	24.10	23.98	0.12	51.48	Secor
	8/14/2007	75.48	25.31	23.78	1.53	51.39	Geomatrix
	8/21/2007	75.48	23.84	23.58	0.26	51.85	Geomatrix
	8/28/2007	75.48	23.07	23.06	0.01	52.42	Stantec
	9/11/2007	75.48	23.86	23.48	0.38	51.92	Geomatrix
	10/5/2007	75.48	24.67	---	---	50.81	Geomatrix
	11/2/2007	75.48	24.25	---	---	51.23	Geomatrix
	11/12/2007	75.48	24.27	24.25	0.02	51.23	Stantec
	12/28/2007	75.48	25.54	25.51	0.03	49.96	Geomatrix
	8/15/2008	75.48	NM	---	---	NC	Envent
	8/19/2008	75.48	25.18	25.13	0.05	50.34	Envent
	10/17/2008	75.48	25.30	---	---	50.18	Envent
	12/19/2008	75.48	26.31	---	---	49.17	Envent

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	1/15/2009	75.48	25.84	---	---	49.64	Envent
	4/21/2009	75.48	25.41	---	---	50.07	Envent
	10/19/2009	75.48	26.30	---	---	49.18	Blaine Tech
	10/4/2010	75.48	26.90	---	---	48.58	Blaine Tech
	4/11/2011	75.48	25.59	---	---	49.89	Blaine Tech
	10/10/2011	75.48	26.52	---	---	48.96	Blaine Tech
	4/16/2012	75.48	27.25	---	---	48.23	Blaine Tech
	7/9/2012	75.48	NM	---	---	NC	Blaine Tech
	10/15/2012	75.48	28.94	---	---	46.54	Blaine Tech
	4/8/2013	75.48	28.81	---	---	46.67	Blaine Tech
	10/7/2013	75.48	29.21	---	---	46.27	Blaine Tech
	4/14/2014	75.48	29.82	---	---	45.66	Blaine Tech
	10/27/2014	75.48	29.92	---	---	45.56	Blaine Tech
	4/20/2015	75.48	30.39	---	---	45.09	Blaine Tech
	10/27/2015	75.48	27.67	---	---	47.81	Blaine Tech
	3/14/2016	75.48	DRY	---	---	NC	Blaine Tech
	4/11/2016	75.48	DRY	---	---	NC	Blaine Tech
	6/29/2016	75.48	DRY	---	---	NC	Blaine Tech
	8/22/2016	75.48	DRY	---	---	NC	Blaine Tech
	10/3/2016	75.48	DRY	---	---	NC	Blaine Tech
4/17/2017	75.48	DRY	--	--	NC	Blaine Tech	
MW-O-2	4/30/2007	74.31	22.53	---	---	51.78	Secor
	11/12/2007	71.90	23.10	---	---	48.80	Stantec
	8/15/2008	71.90	NM	---	---	NC	Envent
	10/17/2008	71.90	24.85	---	---	47.05	Envent
	12/19/2008	71.90	25.51	---	---	46.39	Envent
	3/27/2009	71.90	25.22	---	---	46.68	Envent
	4/21/2009	71.90	NM	---	---	NC	Envent
	7/21/2009	71.90	23.63	---	---	48.27	Envent
	10/19/2009	71.90	NM	---	---	NC	Blaine Tech
	11/9/2009	71.90	25.39	---	---	46.51	Kinder Morgan
	10/4/2010	71.90	26.05	---	---	45.85	Blaine Tech
	4/13/2011	71.9	23.31	---	---	48.59	Blaine Tech
	10/10/2011	71.9	27.53	---	---	44.37	Blaine Tech
	1/9/2012	71.9	28.13	---	---	43.77	Blaine Tech
	4/16/2012	71.9	NM	---	---	NC	Blaine Tech
	7/9/2012	71.9	26.53	---	---	45.37	Blaine Tech
	10/15/2012	71.9	26.89	---	---	45.01	Blaine Tech
	1/14/2013	71.9	26.93	---	---	44.97	Blaine Tech
	4/8/2013	71.9	NM	---	---	NC	Blaine Tech
	6/6/2013	71.9	28.99	---	---	42.91	Blaine Tech
	10/7/2013	71.9	29.06	---	---	42.84	Blaine Tech
	4/14/2014	71.9	29.36	---	---	42.54	Blaine Tech
	10/27/2014	71.9	29.81	29.65	0.16	42.22	Blaine Tech
	4/20/2015	71.9	30.94	29.34	1.60	42.24	Blaine Tech
	5/21/2015	71.9	32.50	27.31	5.19	43.55	Northstar
	5/29/2015	71.9	31.52	30.20	1.32	41.44	Northstar
	6/5/2015	71.9	31.45	30.57	0.88	41.15	Northstar
	6/12/2015	71.9	31.05	30.60	0.45	41.21	Northstar
	6/19/2015	71.9	31.10	30.90	0.20	40.96	Northstar
	6/26/2015	71.9	31.66	31.37	0.29	40.47	Northstar
10/19/2015	71.9	32.39	30.53	1.86	41.00	Blaine Tech	
3/14/2016	71.9	35.49	34.86	0.63	36.91	Blaine Tech	
4/11/2016	71.9	33.03	32.54	0.49	39.26	Blaine Tech	
6/30/2016	71.9	34.20	---	---	37.70	Kinder Morgan	
8/22/2016	71.9	33.93	---	---	37.97	Kinder Morgan	
10/3/2016	71.9	34.30	34.22	0.08	37.66	Blaine Tech	
4/17/2017	71.9	30.91	30.85	0.06	41.04	Blaine Tech	

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
MW-SF-1	3/12/2007	78.93	28.71	---	---	50.22	Secor
	4/30/2007	78.93	28.44	---	---	50.49	Secor
	8/28/2007	78.93	27.94	---	---	50.99	Stantec
	11/12/2007	78.93	28.76	---	---	50.17	Stantec
	2/19/2008	78.93	29.50	---	---	49.43	Stantec
	4/14/2008	78.93	29.16	---	---	49.77	Stantec
	8/11/2008	78.93	29.75	---	---	49.18	Stantec
	10/13/2008	78.93	29.86	---	---	49.07	Stantec
	2/23/2009	78.93	30.00	---	---	48.93	Blaine Tech
	4/20/2009	78.93	29.97	---	---	48.96	Blaine Tech
	7/20/2009	78.93	30.98	---	---	47.95	Blaine Tech
	7/22/2009	78.93	30.98	---	---	47.95	Blaine Tech
	10/19/2009	78.93	31.11	---	---	47.82	Blaine Tech
	3/15/2010	78.93	31.74	---	---	47.19	Blaine Tech
	5/24/2010	78.93	30.79	---	---	48.14	Blaine Tech
	5/28/2010	78.93	30.57	---	---	48.36	Blaine Tech
	6/22/2010	78.93	30.84	---	---	48.09	Blaine Tech
	7/12/2010	78.93	30.51	---	---	48.42	Blaine Tech
	10/4/2010	78.93	30.88	---	---	48.05	Blaine Tech
	1/10/2011	78.93	32.51	---	---	46.42	Blaine Tech
	4/11/2011	78.93	29.87	---	---	49.06	Blaine Tech
	7/11/2011	78.93	29.84	---	---	49.09	Blaine Tech
	10/10/2011	78.93	29.60	---	---	49.33	Blaine Tech
	1/9/2012	78.93	31.25	---	---	47.68	Blaine Tech
	4/16/2012	78.93	32.59	---	---	46.34	Blaine Tech
	7/9/2012	78.93	31.24	---	---	47.69	Blaine Tech
	10/15/2012	78.93	32.23	---	---	46.70	Blaine Tech
	1/14/2013	78.93	33.88	---	---	45.05	Blaine Tech
	4/8/2013	78.93	33.38	---	---	45.55	Blaine Tech
	10/7/2013	78.93	37.14	31.72	5.42	46.13	Blaine Tech
	4/14/2014	78.93	37.40	32.69	4.71	45.30	Blaine Tech
	5/6/2014	78.93	39.99	32.82	7.17	44.68	Nieto & Sons
	5/12/2014	78.93	37.31	33.55	3.76	44.63	Nieto & Sons
	5/20/2014	78.93	37.10	34.60	2.50	43.83	Nieto & Sons
	5/27/2014	78.93	36.62	34.30	2.32	44.17	Nieto & Sons
	6/4/2014	78.93	35.98	35.27	0.71	43.52	Nieto & Sons
	6/10/2014	78.93	36.91	34.48	2.43	43.96	Nieto & Sons
	7/3/2014	78.93	36.72	34.71	2.01	43.82	Nieto & Sons
	7/8/2014	78.93	36.60	34.45	2.15	44.05	Blaine Tech
	7/18/2014	78.93	35.18	34.77	0.41	44.08	Blaine Tech
	7/24/2014	78.93	35.30	34.62	0.68	44.17	Blaine Tech
	8/1/2014	78.93	34.74	34.44	0.30	44.43	Blaine Tech
8/14/2014	78.93	34.75	34.41	0.34	44.45	Blaine Tech	
8/19/2014	78.93	34.66	34.37	0.29	44.50	Blaine Tech	
8/29/2014	78.93	35.65	35.38	0.27	43.50	Blaine Tech	
9/18/2014	78.93	34.85	34.49	0.36	44.37	Blaine Tech	
9/26/2014	78.93	34.78	34.45	0.33	44.41	Blaine Tech	
10/1/2014	78.93	34.77	34.41	0.36	44.45	Blaine Tech	
10/6/2014	78.93	34.78	34.42	0.36	44.44	Blaine Tech	
10/14/2014	78.93	34.65	34.41	0.24	44.47	Blaine Tech	
10/23/2014	78.93	34.84	34.45	0.39	44.40	Blaine Tech	
10/27/2014	78.93	34.80	34.43	0.37	44.43	Blaine Tech	
11/10/2014	78.93	34.91	34.51	0.40	44.34	Blaine Tech	
11/18/2014	78.93	34.80	34.43	0.37	44.43	Blaine Tech	
11/25/2014	78.93	34.53	34.51	0.02	44.42	Blaine Tech	
12/12/2014	78.93	35.18	34.78	0.40	44.07	Blaine Tech	
12/19/2014	78.93	35.34	34.88	0.46	43.96	Blaine Tech	
4/20/2015	78.93	34.89	34.48	0.41	44.37	Blaine Tech	

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	5/19/2015	78.93	38.45	34.55	3.90	43.60	Northstar
	5/29/2015	78.93	36.36	35.22	1.14	43.48	Northstar
	6/5/2015	78.93	36.50	35.43	1.07	43.29	Northstar
	6/12/2015	78.93	35.80	35.41	0.39	43.44	Northstar
	6/19/2015	78.93	36.02	35.42	0.60	43.39	Northstar
	6/26/2015	78.93	36.60	36.45	0.15	42.45	Northstar
	10/19/2015	78.93	36.35	35.53	0.82	43.24	Blaine Tech
	11/17/2015	78.93	35.65	---	---	43.28	Kinder Morgan
	3/14/2016	78.93	40.40	---	---	38.53	Blaine Tech
	4/11/2016	78.93	37.96	---	---	40.97	Blaine Tech
	6/29/2016	78.93	39.05	---	---	39.88	Blaine Tech
	8/22/2016	78.93	39.04	---	---	39.87	Blaine Tech
	10/3/2016	78.93	39.20	---	---	39.73	Blaine Tech
	4/17/2017	78.93	35.75	--	--	43.18	Blaine Tech
MW-SF-2	4/30/2007	78.45	28.35	28.34	0.01	50.11	Secor
	11/12/2007	78.45	29.18	28.71	0.47	49.65	Stantec
	8/12/2008	78.45	31.11	---	---	47.34	Envent
	10/17/2008	78.45	31.55	31.50	0.05	46.94	Envent
	12/18/2008	78.53	32.75	32.55	0.20	45.94	Envent
	1/15/2009	78.53	30.84	30.57	0.27	47.91	Envent
	3/24/2009	78.53	28.85	---	---	49.68	Envent
	4/21/2009	78.53	29.98	---	---	48.55	Envent
	7/21/2009	78.53	29.85	---	---	48.68	Envent
	10/19/2009	78.53	NM	---	---	NC	Blaine Tech
	12/9/2009	78.53	31.45	---	---	47.08	Kinder Morgan
	10/4/2010	78.53	30.96	30.75	0.21	47.74	Blaine Tech
	1/10/2011	78.53	32.62	32.50	0.12	46.01	Blaine Tech
	4/11/2011	78.53	29.83	---	---	48.70	Blaine Tech
	7/11/2011	78.53	NM	---	---	NC	
	10/10/2011	78.53	29.82	---	---	48.71	Blaine Tech
	1/9/2012	78.53	30.52	---	---	48.01	Blaine Tech
	4/16/2012	78.53	31.28	---	---	47.25	Blaine Tech
	7/9/2012	78.53	33.18	---	---	45.35	Blaine Tech
	10/15/2012	78.53	32.11	---	---	46.42	Blaine Tech
	1/14/2013	78.53	33.59	---	---	44.94	Blaine Tech
	4/8/2013	78.53	33.32	---	---	45.21	Blaine Tech
	10/7/2013	78.53	34.58	33.08	1.50	45.15	Blaine Tech
	4/14/2014	78.53	37.50	33.27	4.23	44.41	Blaine Tech
	5/6/2014	78.53	37.71	33.24	4.47	44.40	Nieto & Sons
	5/12/2014	78.53	37.53	33.34	4.19	44.35	Nieto & Sons
	5/20/2014	78.53	37.62	33.51	4.11	44.20	Nieto & Sons
	5/27/2014	78.53	38.24	33.77	4.47	43.87	Nieto & Sons
	6/4/2014	78.53	34.63	---	---	43.90	Nieto & Sons
	6/10/2014	78.53	38.49	34.00	4.49	43.63	Nieto & Sons
	8/8/2014	78.53	36.23	33.82	2.41	44.23	Blaine Tech
	8/13/2014	78.53	36.75	33.59	3.16	44.31	Blaine Tech
	8/19/2014	78.53	36.90	33.60	3.30	44.27	Blaine Tech
	8/29/2014	78.53	37.11	33.53	3.58	44.28	Blaine Tech
	9/5/2014	78.53	37.09	33.51	3.58	44.30	Blaine Tech
	9/11/2014	78.53	37.12	33.51	3.61	44.30	Blaine Tech
	9/18/2014	78.53	36.89	33.60	3.29	44.27	Blaine Tech
	9/26/2014	78.53	37.28	33.54	3.74	44.24	Blaine Tech
	10/1/2014	78.53	37.18	33.56	3.62	44.25	Blaine Tech
	10/6/2014	78.53	37.16	33.59	3.57	44.23	Blaine Tech
	10/14/2014	78.53	37.15	33.64	3.51	44.19	Blaine Tech
	10/23/2014	78.53	37.24	33.61	3.63	44.19	Blaine Tech
	10/27/2014	78.53	37.04	33.54	3.50	44.29	Blaine Tech
	11/3/2014	78.53	37.14	33.55	3.59	44.26	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	11/10/2014	78.53	37.33	33.56	3.77	44.22	Blaine Tech
	11/18/2014	78.53	37.21	33.64	3.57	44.18	Blaine Tech
	11/25/2014	78.53	37.40	33.69	3.71	44.10	Blaine Tech
	12/3/2014	78.53	37.16	33.60	3.56	44.22	Blaine Tech
	12/12/2014	78.53	38.05	33.91	4.14	43.79	Blaine Tech
	12/19/2014	78.53	38.40	33.95	4.45	43.69	Blaine Tech
	4/20/2015	78.53	36.15	34.73	1.42	43.52	Blaine Tech
	6/25/2015	78.53	38.95	35.57	3.38	42.28	Blaine Tech
	10/21/2015	78.53	36.32	36.13	0.19	42.36	Kinder Morgan
	3/16/2016	78.53	39.27	---	---	39.26	Kinder Morgan
	4/11/2016	78.53	37.47	---	---	41.06	Blaine Tech
	6/29/2016	78.53	38.08	---	---	40.45	Blaine Tech
	8/22/2016	78.53	38.83	---	---	39.70	Blaine Tech
	10/3/2016	78.53	39.60	---	---	38.93	Blaine Tech
	3/10/2017	78.53	36.47	---	---	42.06	CH2M
	4/17/2017	78.53	35.78	--	--	42.75	Blaine Tech
MW-SF-3	4/30/2007	77.62	27.72	27.45	0.27	50.12	Secor
	11/12/2007	77.62	29.34	28.28	1.06	49.13	Stantec
	8/12/2008	77.62	30.30	29.05	1.25	48.32	Envent
	10/17/2008	77.62	29.45	---	---	48.17	Envent
	12/18/2008	78.12	31.08	30.82	0.26	47.25	Envent
	1/15/2009	78.12	29.96	29.94	0.02	48.18	Envent
	3/20/2009	78.12	31.10	---	---	47.02	Envent
	3/24/2009	78.12	27.82	---	---	50.30	Envent
	4/21/2009	78.12	29.51	29.50	0.01	48.62	Envent
	7/21/2009	78.12	30.07	---	---	48.05	Envent
	10/19/2009	78.12	NM	---	---	NC	Blaine Tech
	11/6/2009	78.12	30.37	30.35	0.02	47.77	Kinder Morgan
	12/9/2009	78.12	30.53	---	---	47.59	Kinder Morgan
	9/3/2010	78.12	30.97	30.42	0.55	47.59	Kinder Morgan
	10/4/2010	78.12	30.88	30.30	0.58	47.70	Blaine Tech
	4/12/2011	78.12	29.44	---	---	48.68	Blaine Tech
	10/10/2011	78.12	30.75	---	---	47.37	Blaine Tech
	4/16/2012	78.12	NM	---	---	NC	Blaine Tech
	7/9/2012	78.12	NM	---	---	NC	Blaine Tech
	10/15/2012	78.12	32.47	---	---	45.65	Blaine Tech
	5/24/2013	78.12	33.35	32.51	0.84	45.44	Blaine Tech
	9/25/2013	78.12	34.40	---	---	43.72	Blaine Tech
	10/7/2013	78.12	NM	---	---	NC	Blaine Tech
	11/14/2013	78.12	33.26	---	---	44.86	Blaine Tech
	4/18/2014	78.12	33.72	33.62	0.10	44.48	Blaine Tech
	8/8/2014	78.12	34.07	33.71	0.36	44.34	Blaine Tech
	10/14/2014	78.12	34.55	33.92	0.63	44.07	Blaine Tech
	10/23/2014	78.12	34.57	33.94	0.63	44.05	Blaine Tech
	10/27/2014	78.12	34.49	33.85	0.64	44.14	Blaine Tech
	11/10/2014	78.12	34.65	33.94	0.71	44.04	Blaine Tech
	11/18/2014	78.12	34.62	33.88	0.74	44.09	Blaine Tech
	11/25/2014	78.12	34.22	33.94	0.28	44.12	Blaine Tech
	12/12/2014	78.12	34.89	34.38	0.51	43.64	Blaine Tech
	12/19/2014	78.12	35.04	34.43	0.61	43.57	Blaine Tech
	4/20/2015	78.12	34.52	---	---	43.60	Blaine Tech
	10/21/2015	78.12	35.18	---	---	42.94	Kinder Morgan
	3/14/2016	78.12	39.43	39.40	0.03	38.71	Blaine Tech
	4/11/2016	78.12	37.17	---	---	40.95	Blaine Tech
	6/30/2016	78.12	38.28	---	---	39.84	Kinder Morgan
	8/22/2016	78.12	38.33	---	---	39.79	Kinder Morgan
	10/3/2016	78.12	39.40	---	---	38.72	Kinder Morgan
	3/8/2017	78.12	35.75	---	---	42.37	CH2M

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	4/17/2017	78.12	35.15	--	--	42.97	Blaine Tech
MW-SF-4	3/12/2007	79.38	30.01	29.41	0.60	49.85	Secor
	4/30/2007	79.38	29.96	29.11	0.85	50.10	Secor
	8/14/2007	79.38	30.34	28.38	1.96	50.60	Geomatrix
	8/28/2007	79.38	29.95	28.30	1.65	50.74	Stantec
	9/11/2007	79.38	29.98	28.43	1.55	50.63	Geomatrix
	10/5/2007	79.38	30.68	28.85	1.83	50.15	Geomatrix
	10/12/2007	79.38	30.27	29.96	0.31	49.36	Geomatrix
	10/19/2007	79.38	30.28	---	---	49.10	Geomatrix
	10/26/2007	79.38	30.52	---	---	48.86	Geomatrix
	11/2/2007	79.38	30.68	---	---	48.70	Geomatrix
	11/12/2007	79.38	29.70	29.69	0.01	49.69	Stantec
	12/21/2007	79.38	30.69	---	---	48.69	Geomatrix
	2/19/2008	79.38	30.22	---	---	49.16	Stantec
	3/21/2008	79.38	30.07	---	---	49.31	Envent
	4/14/2008	79.38	29.95	---	---	49.43	Stantec
	8/8/2008	79.38	30.51	---	---	48.87	Envent
	8/11/2008	79.38	30.57	---	---	48.81	Stantec
	10/16/2008	79.38	30.77	---	---	48.61	Envent
	1/15/2009	79.38	31.14	---	---	48.24	Envent
	2/20/2009	79.38	30.84	---	---	48.54	Envent
	2/23/2009	79.38	30.96	---	---	48.42	Blaine Tech
	4/20/2009	79.38	30.02	29.94	0.08	49.42	Blaine Tech
	4/28/2009	79.38	30.78	---	---	48.60	Envent
	7/17/2009	79.38	31.85	---	---	47.53	Envent
	7/20/2009	79.38	31.65	31.61	0.04	47.76	Blaine Tech
	7/22/2009	79.38	31.65	31.61	0.04	47.76	Blaine Tech
	10/19/2009	79.38	31.93	31.90	0.03	47.47	Blaine Tech
	3/15/2010	79.38	31.95	31.91	0.04	47.46	Blaine Tech
	5/24/2010	79.38	31.60	---	---	47.78	Blaine Tech
	5/28/2010	79.38	26.40	---	---	52.98	Blaine Tech
	6/22/2010	79.38	31.63	---	---	47.75	Blaine Tech
	7/12/2010	79.38	31.37	---	---	48.01	Blaine Tech
	10/4/2010	79.38	31.81	---	---	47.57	Blaine Tech
	1/10/2011	79.38	32.99	---	---	46.39	Blaine Tech
	4/11/2011	79.38	30.85	---	---	48.53	Blaine Tech
	7/11/2011	79.38	30.35	---	---	49.03	Blaine Tech
	10/10/2011	79.38	NM	---	---	NC	Blaine Tech
	1/9/2012	79.38	32.07	---	---	47.31	Blaine Tech
	4/16/2012	79.38	33.35	---	---	46.03	Blaine Tech
	7/9/2012	79.38	32.11	---	---	47.27	Blaine Tech
	10/15/2012	79.38	34.04	---	---	45.34	Blaine Tech
	1/14/2013	79.38	34.52	---	---	44.86	Blaine Tech
	4/8/2013	79.38	DRY	---	---	NC	Blaine Tech
	10/7/2013	79.38	DRY	---	---	NC	Blaine Tech
	4/25/2014	79.38	40.03	34.23	5.80	43.96	Blaine Tech
	5/6/2014	79.38	39.78	33.91	5.87	44.27	Nieto & Sons
	5/12/2014	79.38	37.02	34.64	2.38	44.25	Nieto & Sons
	5/20/2014	79.38	36.60	35.60	1.00	43.58	Nieto & Sons
	5/27/2014	79.38	36.12	35.45	0.67	43.79	Nieto & Sons
	6/4/2014	79.38	36.54	35.91	0.63	43.34	Nieto & Sons
	6/10/2014	79.38	37.02	35.38	1.64	43.66	Nieto & Sons
	7/3/2014	79.38	36.98	35.63	1.35	43.47	Nieto & Sons
	7/8/2014	79.38	36.78	35.34	1.44	43.74	Blaine Tech
	7/18/2014	79.38	35.88	35.55	0.33	43.76	Blaine Tech
	7/24/2014	79.38	35.98	35.42	0.56	43.85	Blaine Tech
	8/1/2014	79.38	35.57	35.30	0.27	44.02	Blaine Tech
	8/14/2014	79.38	35.42	35.23	0.19	44.11	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	8/19/2014	79.38	35.36	35.21	0.15	44.14	Blaine Tech
	8/29/2014	79.38	35.32	35.20	0.12	44.16	Blaine Tech
	9/18/2014	79.38	35.55	35.30	0.25	44.03	Blaine Tech
	9/26/2014	79.38	35.56	35.30	0.26	44.03	Blaine Tech
	10/1/2014	79.38	35.56	35.24	0.32	44.07	Blaine Tech
	10/6/2014	79.38	35.48	35.22	0.26	44.11	Blaine Tech
	10/14/2014	79.38	35.33	35.20	0.13	44.15	Blaine Tech
	10/23/2014	79.38	35.51	35.22	0.29	44.10	Blaine Tech
	10/27/2014	79.38	35.54	35.25	0.29	44.07	Blaine Tech
	11/18/2014	79.38	35.56	35.25	0.31	44.07	Blaine Tech
	11/25/2014	79.38	35.66	35.32	0.34	43.99	Blaine Tech
	12/12/2014	79.38	35.81	35.58	0.23	43.75	Blaine Tech
	12/19/2014	79.38	35.75	35.62	0.13	43.73	Blaine Tech
	4/20/2015	79.38	37.78	35.29	2.49	43.58	Blaine Tech
	5/19/2015	79.38	39.22	35.28	3.94	43.29	Northstar
	5/29/2015	79.38	37.10	35.80	1.30	43.31	Northstar
	6/5/2015	79.38	36.85	36.15	0.70	43.09	Northstar
	6/12/2015	79.38	36.55	36.15	0.40	43.15	Northstar
	6/19/2015	79.38	36.68	36.42	0.26	42.91	Northstar
	6/26/2015	79.38	37.23	36.96	0.27	42.36	Northstar
	10/19/2015	79.38	38.12	36.25	1.87	42.75	Blaine Tech
	11/17/2015	79.38	37.83	35.98	1.85	43.02	Kinder Morgan
	3/14/2016	79.38	40.80	---	---	38.58	Kinder Morgan
	4/11/2016	79.38	37.76	---	---	41.62	Blaine Tech
	6/29/2016	79.38	39.54	---	---	39.84	Blaine Tech
	8/22/2016	79.38	39.76	---	---	39.62	Blaine Tech
	10/3/2016	79.38	41.05	---	---	38.33	Blaine Tech
	4/17/2017	79.38	36.67	---	---	42.71	Blaine Tech
MW-SF-5	4/30/2007	79.74	29.54	---	---	50.20	Secor
	8/21/2007	79.74	28.36	---	---	51.38	Geomatrix
	8/28/2007	79.74	28.84	---	---	50.90	Stantec
	10/5/2007	79.74	29.50	---	---	50.24	Geomatrix
	11/2/2007	79.74	31.50	---	---	48.24	Geomatrix
	11/12/2007	79.74	29.93	---	---	49.81	Stantec
	12/21/2007	79.74	31.00	---	---	48.74	Geomatrix
	4/14/2008	79.74	30.20	---	---	49.54	Stantec
	8/11/2008	79.74	30.85	---	---	48.89	Stantec
	10/13/2008	79.74	30.93	---	---	48.81	Stantec
	4/20/2009	79.74	30.99	---	---	48.75	Blaine Tech
	10/19/2009	79.74	NM	---	---	NC	Blaine Tech
	5/24/2010	79.74	31.55	---	---	48.19	Blaine Tech
	5/28/2010	79.74	31.44	---	---	48.30	Blaine Tech
	6/22/2010	79.74	31.57	---	---	48.17	Blaine Tech
	10/4/2010	79.74	31.39	---	---	48.35	Blaine Tech
	1/10/2011	79.74	33.80	---	---	45.94	Blaine Tech
	4/11/2011	79.74	31.03	---	---	48.71	Blaine Tech
	7/11/2011	79.74	NM	---	---	NC	
	10/10/2011	79.74	31.28	---	---	48.46	Blaine Tech
	1/9/2012	79.74	32.12	---	---	47.62	Blaine Tech
	4/16/2012	79.74	33.30	---	---	46.44	Blaine Tech
	7/9/2012	79.74	34.45	---	---	45.29	Blaine Tech
	10/15/2012	79.74	33.28	---	---	46.46	Blaine Tech
	1/14/2013	79.74	33.37	---	---	46.37	Blaine Tech
	4/8/2013	79.74	34.28	---	---	45.46	Blaine Tech
	10/7/2013	79.74	34.58	---	---	45.16	Blaine Tech
	4/14/2014	79.74	35.33	---	---	44.41	Blaine Tech
	10/27/2014	79.74	35.48	---	---	44.26	Blaine Tech
	4/20/2015	79.74	36.05	---	---	43.69	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/19/2015	79.74	36.82	---	---	42.92	Blaine Tech
	3/14/2016	79.74	DRY	---	---	NC	Blaine Tech
	4/11/2016	79.74	DRY	---	---	NC	Blaine Tech
	6/29/2016	79.74	DRY	---	---	NC	Blaine Tech
	8/22/2016	79.74	DRY	---	---	NC	Blaine Tech
	10/3/2016	79.74	DRY	---	---	NC	Blaine Tech
	4/17/2017	79.74	36.88	---	---	42.86	Blaine Tech
MW-SF-6	4/30/2007	79.96	27.44	27.20	0.24	52.71	Secor
	11/12/2007	79.96	27.14	---	---	52.82	Stantec
	8/12/2008	79.96	29.82	---	---	50.14	Envent
	10/17/2008	79.96	29.75	---	---	50.21	Envent
	12/18/2008	76.8	30.73	---	---	46.07	Envent
	1/15/2009	76.8	31.35	---	---	45.45	Envent
	3/24/2009	76.80	30.50	---	---	46.30	Envent
	4/21/2009	76.80	28.45	---	---	48.35	Envent
	7/21/2009	76.80	27.22	---	---	49.58	Envent
	10/19/2009	76.80	NM	---	---	NC	Blaine Tech
	11/6/2009	76.80	29.10	---	---	47.70	Kinder Morgan
	12/9/2009	76.80	31.35	---	---	45.45	Kinder Morgan
	10/4/2010	76.80	29.09	---	---	47.71	Blaine Tech
	1/10/2011	76.80	30.87	---	---	45.93	Blaine Tech
	4/11/2011	76.80	28.16	---	---	48.64	Blaine Tech
	7/11/2011	76.80	NM	---	---	NC	
	10/10/2011	76.80	28.21	---	---	48.59	Blaine Tech
	1/9/2012	76.80	29.03	---	---	47.77	Blaine Tech
	4/16/2012	76.80	29.66	---	---	47.14	Blaine Tech
	7/9/2012	76.80	31.46	---	---	45.34	Blaine Tech
	10/15/2012	76.80	31.44	---	---	45.36	Blaine Tech
	1/14/2013	76.80	31.53	---	---	45.27	Blaine Tech
	4/8/2013	76.80	30.21	28.81	1.40	47.71	Blaine Tech
	10/7/2013	76.80	NM	---	---	NC	Blaine Tech
	11/14/2013	76.80	31.90	---	---	44.90	Blaine Tech
	4/18/2014	76.80	33.30	32.15	1.15	44.42	Blaine Tech
	8/8/2014	76.8	34.50	33.31	1.19	43.25	Blaine Tech
	8/13/2014	76.8	32.95	32.54	0.41	44.18	Blaine Tech
	8/19/2014	76.8	32.87	32.62	0.25	44.13	Blaine Tech
	8/29/2014	76.8	32.79	32.56	0.23	44.19	Blaine Tech
	9/5/2014	76.8	32.81	32.59	0.22	44.17	Blaine Tech
	9/18/2014	76.8	32.95	32.65	0.30	44.09	Blaine Tech
	9/26/2014	76.8	32.94	32.61	0.33	44.12	Blaine Tech
	10/1/2014	76.8	32.91	32.60	0.31	44.14	Blaine Tech
	10/6/2014	76.8	32.90	32.61	0.29	44.13	Blaine Tech
	10/14/2014	76.8	33.72	33.60	0.12	43.18	Blaine Tech
	10/23/2014	76.8	34.57	33.94	0.63	42.73	Blaine Tech
	10/27/2014	76.8	32.92	32.58	0.34	44.15	Blaine Tech
	11/18/2014	76.8	32.99	32.62	0.37	44.11	Blaine Tech
	11/25/2014	76.8	32.66	32.58	0.08	44.20	Blaine Tech
	12/12/2014	76.8	33.45	33.07	0.38	43.65	Blaine Tech
	12/19/2014	76.8	33.60	33.15	0.45	43.56	Blaine Tech
	4/20/2015	76.8	33.23	33.11	0.12	43.67	Blaine Tech
	10/21/2015	76.8	34.28	---	---	42.52	Kinder Morgan
	3/14/2016	76.8	38.10	38.08	0.02	38.72	Blaine Tech
	4/11/2016	76.8	35.83	---	---	40.97	Blaine Tech
	6/29/2016	76.8	36.89	---	---	39.91	Blaine Tech
	8/22/2016	76.8	37.11	---	---	39.69	Blaine Tech
	10/3/2016	76.8	38.45	---	---	38.35	Blaine Tech
	4/17/2017	76.8	34.03	---	---	42.77	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
MW-SF-9	4/30/2007	74.1	22.66	---	---	51.44	Secor
	8/14/2007	74.1	28.73	28.61	0.12	45.47	Geomatrix
	8/21/2007	74.1	26.55	---	---	47.55	Geomatrix
	8/28/2007	74.1	20.55	---	---	53.55	Stantec
	9/11/2007	74.1	19.40	---	---	54.70	Geomatrix
	10/5/2007	74.1	26.84	---	---	47.26	Geomatrix
	11/2/2007	74.1	22.76	---	---	51.34	Geomatrix
	11/12/2007	74.1	22.96	---	---	51.14	Stantec
	12/21/2007	74.1	24.05	---	---	50.05	Geomatrix
	4/14/2008	74.1	24.23	---	---	49.87	Stantec
	10/13/2008	74.1	24.83	---	---	49.27	Stantec
	4/20/2009	74.10	25.27	---	---	48.83	Blaine Tech
	10/19/2009	74.10	26.45	---	---	47.65	Blaine Tech
	5/24/2010	74.10	25.80	---	---	48.30	Blaine Tech
	5/28/2010	74.10	25.66	---	---	48.44	Blaine Tech
	6/22/2010	74.10	25.84	---	---	48.26	Blaine Tech
	10/4/2010	74.10	26.10	---	---	48.00	Blaine Tech
	1/10/2011	74.10	27.41	---	---	46.69	Blaine Tech
	4/11/2011	74.10	24.16	---	---	49.94	Blaine Tech
	7/11/2011	74.10	NM	---	---	NC	NC
	10/10/2011	74.10	25.02	---	---	49.08	Blaine Tech
	1/9/2012	74.10	25.98	---	---	48.12	Blaine Tech
	4/16/2012	74.10	25.92	---	---	48.18	Blaine Tech
	7/9/2012	74.10	26.44	---	---	47.66	Blaine Tech
	10/15/2012	74.10	NM	---	---	NC	Blaine Tech
	4/8/2013	74.10	DRY	---	---	NC	Blaine Tech
	6/6/2013	74.10	28.53	---	---	45.57	Blaine Tech
	10/7/2013	74.10	28.95	---	---	45.15	Blaine Tech
	4/25/2014	74.10	34.75	27.95	6.80	44.89	Blaine Tech
	5/5/2014	74.10	37.81	31.76	6.05	41.22	Nieto & Sons
	5/12/2014	74.10	32.32	29.11	3.21	44.40	Nieto & Sons
	5/20/2014	74.10	30.75	29.95	0.80	44.00	Nieto & Sons
	5/27/2014	74.1	38.08	32.32	5.76	40.71	Nieto & Sons
	6/4/2014	74.1	32.19	28.61	3.58	44.83	Nieto & Sons
	6/10/2014	74.1	36.27	28.85	7.42	43.88	Nieto & Sons
	7/3/2014	74.1	39.26	32.59	6.67	40.28	Nieto & Sons
	7/8/2014	74.1	36.40	28.60	7.80	44.06	Blaine Tech
	7/18/2014	74.1	31.04	29.66	1.38	44.18	Blaine Tech
	7/24/2014	74.1	31.15	29.85	1.30	44.01	Blaine Tech
	8/1/2014	74.1	30.25	29.85	0.40	44.18	Blaine Tech
	8/14/2014	74.1	30.13	29.82	0.31	44.22	Blaine Tech
	8/19/2014	74.1	30.08	29.85	0.23	44.21	Blaine Tech
	8/29/2014	74.1	30.10	29.81	0.29	44.24	Blaine Tech
9/5/2014	74.1	30.13	29.84	0.29	44.21	Blaine Tech	
9/11/2014	74.1	29.49	28.47	1.02	45.44	Blaine Tech	
9/18/2014	74.1	30.29	29.90	0.39	44.13	Blaine Tech	
9/26/2014	74.1	30.25	29.84	0.41	44.18	Blaine Tech	
10/1/2014	74.1	30.24	29.84	0.40	44.19	Blaine Tech	
10/6/2014	74.1	30.24	29.83	0.41	44.19	Blaine Tech	
10/14/2014	74.1	30.12	29.81	0.31	44.23	Blaine Tech	
10/23/2014	74.1	30.27	29.85	0.42	44.17	Blaine Tech	
10/27/2014	74.1	30.29	29.89	0.40	44.14	Blaine Tech	
11/18/2014	74.1	30.35	29.86	0.49	44.15	Blaine Tech	
11/25/2014	74.1	30.42	29.91	0.51	44.10	Blaine Tech	
12/12/2014	74.1	30.65	30.10	0.55	43.90	Blaine Tech	
12/19/2014	74.1	30.80	30.13	0.67	43.85	Blaine Tech	
4/20/2015	74.1	36.69	27.67	9.02	44.76	Blaine Tech	
5/19/2015	74.1	35.68	26.83	8.85	45.63	Blaine Tech	

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	5/21/2015	74.1	32.50	27.31	5.19	45.83	Northstar
	5/29/2015	74.1	32.95	30.10	2.85	43.47	Northstar
	6/2/2015	74.1	31.67	30.45	1.22	43.42	Northstar
	6/5/2015	74.10	31.85	30.60	1.25	43.27	Northstar
	6/12/2015	74.10	31.28	30.75	0.53	43.25	Northstar
	6/19/2015	74.10	31.30	31.00	0.30	43.04	Northstar
	6/26/2015	74.10	31.20	29.50	1.70	44.29	Northstar
	8/11/2015	74.10	36.90	29.90	7.00	42.90	Northstar
	8/18/2015	74.10	35.19	30.25	4.94	42.94	Northstar
	8/28/2015	74.10	31.60	30.75	0.85	43.19	Kinder Morgan
	9/1/2015	74.10	31.78	30.90	0.88	43.04	Kinder Morgan
	10/16/2015	74.10	31.60	31.09	0.51	42.92	Blaine Tech
	10/19/2015	74.10	31.44	31.04	0.40	42.99	Kinder Morgan
	10/30/2015	74.10	32.60	32.06	0.54	41.94	Kinder Morgan
	11/17/2015	74.10	31.71	31.68	0.03	42.41	Kinder Morgan
	3/14/2016	74.10	34.14	---	---	39.96	Blaine Tech
4/11/2016	74.10	32.89	---	---	41.21	Blaine Tech	
6/29/2016	74.10	34.00	---	---	40.10	Blaine Tech	
MW-SF-10	10/17/2008	76.53	27.49	---	---	49.04	Envent
	10/19/2009	76.53	28.61	---	---	47.92	Blaine Tech
	10/4/2010	76.53	28.50	28.36	0.14	48.14	Blaine Tech
	4/11/2011	76.53	27.41	27.37	0.04	49.15	Blaine Tech
	10/10/2011	76.53	27.60	---	---	48.93	Blaine Tech
	4/16/2012	76.53	28.81	---	---	47.72	Blaine Tech
	7/9/2012	76.53	NM	---	---	NC	Blaine Tech
	10/15/2012	76.53	29.27	---	---	47.26	Blaine Tech
	4/8/2013	76.53	DRY	---	---	NC	Blaine Tech
	10/7/2013	76.53	DRY	---	---	NC	Blaine Tech
	4/14/2014	76.53	DRY	---	---	NC	Blaine Tech
	10/27/2014	76.53	DRY	---	---	NC	Blaine Tech
	4/20/2015	76.53	DRY	---	---	NC	Blaine Tech
	10/19/2015	76.53	DRY	---	---	NC	Blaine Tech
	3/14/2016	76.53	DRY	---	---	NC	Blaine Tech
	4/11/2016	76.53	DRY	---	---	NC	Blaine Tech
6/29/2016	76.53	DRY	---	---	NC	Blaine Tech	
8/22/2016	76.53	DRY	---	---	NC	Blaine Tech	
10/3/2016	76.53	DRY	---	---	NC	Blaine Tech	
4/17/2017	76.53	DRY	---	---	NC	Blaine Tech	
MW-SF-11	8/14/2007	78.56	28.58	28.30	0.28	50.20	Geomatrix
	8/21/2007	78.56	28.76	28.63	0.13	49.90	Geomatrix
	8/28/2007	78.56	28.22	---	---	50.34	Stantec
	9/11/2007	78.56	26.90	---	---	51.66	Geomatrix
	10/5/2007	78.56	28.43	---	---	50.13	Geomatrix
	11/2/2007	78.56	29.48	29.38	0.10	49.16	Geomatrix
	11/12/2007	78.56	29.03	---	---	49.53	Stantec
	8/15/2008	78.56	30.13	---	---	48.43	Envent
	10/17/2008	78.56	30.50	---	---	48.06	Envent
	12/18/2008	78.56	29.92	---	---	48.64	Envent
	1/15/2009	78.56	30.32	---	---	48.24	Envent
	3/24/2009	78.56	31.05	---	---	47.51	Envent
	4/21/2009	78.56	30.03	---	---	48.53	Envent
	7/21/2009	78.56	30.89	---	---	47.67	Envent
	10/19/2009	78.56	NM	---	---	NC	Blaine Tech
	11/9/2009	78.56	31.00	---	---	47.56	Kinder Morgan
9/3/2010	78.56	31.22	---	---	47.34	Kinder Morgan	
10/4/2010	78.56	30.94	---	---	47.62	Blaine Tech	
4/12/2011	78.56	30.82	---	---	47.74	Blaine Tech	
10/10/2011	78.56	30.10	---	---	48.46	Blaine Tech	

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	4/16/2012	78.56	NM	---	---	NC	Blaine Tech
	7/9/2012	78.56	NM	---	---	NC	Blaine Tech
	10/15/2012	78.56	33.28	---	---	45.28	Blaine Tech
	4/8/2013	78.56	33.11	---	---	45.45	Blaine Tech
	10/7/2013	78.56	33.91	---	---	44.65	Blaine Tech
	4/14/2014	78.56	35.20	34.95	0.25	43.56	Blaine Tech
	5/5/2014	78.56	36.52	33.71	2.81	44.29	Nieto & Sons
	5/12/2014	78.56	35.45	33.87	1.58	44.37	Nieto & Sons
	5/27/2014	78.56	35.38	34.65	0.73	43.76	Nieto & Sons
	6/4/2014	78.56	35.40	35.32	0.08	43.22	Nieto & Sons
	8/8/2014	78.56	36.22	33.11	3.11	44.83	Blaine Tech
	8/13/2014	78.56	36.22	33.47	2.75	44.54	Blaine Tech
	8/19/2014	78.56	36.46	33.94	2.52	44.12	Blaine Tech
	8/29/2014	78.56	36.68	33.83	2.85	44.16	Blaine Tech
	9/5/2014	78.56	36.62	33.80	2.82	44.20	Blaine Tech
	9/11/2014	78.56	37.15	33.78	3.37	44.11	Blaine Tech
	9/18/2014	78.56	36.79	33.93	2.86	44.06	Blaine Tech
	9/26/2014	78.56	36.89	33.88	3.01	44.08	Blaine Tech
	10/1/2014	78.56	34.95	33.32	1.63	44.91	Blaine Tech
	10/6/2014	78.56	36.36	33.95	2.41	44.13	Blaine Tech
	10/14/2014	78.56	36.67	33.86	2.81	44.14	Blaine Tech
	10/23/2014	78.56	36.86	33.86	3.00	44.10	Blaine Tech
	10/27/2014	78.56	36.20	33.99	2.21	44.13	Blaine Tech
	11/3/2014	78.56	36.91	33.84	3.07	44.11	Blaine Tech
	11/18/2014	78.56	36.78	33.95	2.83	44.04	Blaine Tech
	11/25/2014	78.56	36.65	34.03	2.62	44.01	Blaine Tech
	12/3/2014	78.56	36.71	33.94	2.77	44.07	Blaine Tech
	12/12/2014	78.56	37.29	34.08	3.21	43.84	Blaine Tech
	12/19/2014	78.56	38.03	34.04	3.99	43.72	Blaine Tech
	3/17/2015	78.56	35.94	35.50	0.44	42.97	Kinder Morgan
	4/20/2015	78.56	38.89	34.86	4.03	42.89	Kinder Morgan
	10/20/2015	78.56	37.42	35.38	2.04	42.77	Kinder Morgan
	3/16/2016	78.56	39.56	---	---	39.00	Kinder Morgan
	4/11/2016	78.56	37.62	---	---	40.94	Blaine Tech
	6/29/2016	78.56	37.06	---	---	41.50	Blaine Tech
	8/22/2016	78.56	39.25	---	---	39.31	Blaine Tech
	10/3/2016	78.56	40.05	---	---	38.51	Blaine Tech
	3/10/2017	78.56	36.56	---	---	42.00	CH2M
	4/17/2017	78.56	35.91	---	---	42.65	Blaine Tech
MW-SF-12	8/14/2007	78.07	27.76	---	---	50.31	Geomatrix
	8/21/2007	78.07	27.43	---	---	50.64	Geomatrix
	8/28/2007	78.07	27.58	---	---	50.49	Stantec
	9/11/2007	78.07	27.73	---	---	50.34	Geomatrix
	10/5/2007	78.07	28.06	---	---	50.01	Geomatrix
	11/2/2007	78.07	29.59	---	---	48.48	Geomatrix
	11/12/2007	78.07	28.33	---	---	49.74	Stantec
	8/12/2008	78.07	30.02	---	---	48.05	Envent
	10/17/2008	78.07	30.42	---	---	47.65	Envent
	12/18/2008	78.07	31.55	---	---	46.52	Envent
	1/15/2009	78.07	30.11	---	---	47.96	Envent
	3/24/2009	78.07	29.41	---	---	48.66	Envent
	4/21/2009	78.07	29.52	---	---	48.55	Envent
	7/21/2009	78.07	28.58	---	---	49.49	Envent
	10/19/2009	78.07	NM	---	---	NC	Blaine Tech
	11/4/2009	78.07	30.36	---	---	47.71	Kinder Morgan
	2/4/2010	78.07	29.20	---	---	48.87	Kinder Morgan
	10/4/2010	78.07	30.70	---	---	47.37	Blaine Tech
	4/11/2011	78.07	29.47	---	---	48.60	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/10/2011	78.07	26.60	---	---	51.47	Blaine Tech
	4/16/2012	78.07	31.40	---	---	46.67	Blaine Tech
	7/9/2012	78.07	NM	---	---	NC	Blaine Tech
	10/15/2012	78.07	32.12	---	---	45.95	Blaine Tech
	4/8/2013	78.07	DRY	---	---	NC	Blaine Tech
	10/7/2013	78.07	NM	---	---	NC	Blaine Tech
	4/14/2014	78.07	38.04	32.67	5.37	44.33	Blaine Tech
	5/20/2014	78.07	37.80	32.90	4.90	44.19	Nieto & Sons
	5/27/2014	78.07	33.27	---	---	44.80	Nieto & Sons
	6/4/2014	78.07	32.78	---	---	45.29	Nieto & Sons
	6/10/2014	78.07	33.76	---	---	44.31	Nieto & Sons
	7/3/2014	78.07	NM	33.58	---	NC	Nieto & Sons
	7/24/2014	78.07	NM	33.35	3.97	NC	Blaine Tech
	8/1/2014	78.07	37.20	33.17	4.03	44.09	Blaine Tech
	9/5/2014	78.07	38.52	32.93	5.59	44.02	Blaine Tech
	9/11/2014	78.07	38.56	32.98	5.58	43.97	Blaine Tech
	9/18/2014	78.07	38.25	33.09	5.16	43.95	Blaine Tech
	9/26/2014	78.07	38.03	33.03	5.00	44.04	Blaine Tech
	10/1/2014	78.07	37.82	33.08	4.74	44.04	Blaine Tech
	10/6/2014	78.07	37.63	33.07	4.56	44.09	Blaine Tech
	10/14/2014	78.07	37.56	33.13	4.43	44.05	Blaine Tech
	10/23/2014	78.07	37.56	33.06	4.50	44.11	Blaine Tech
	10/27/2014	78.07	37.40	33.08	4.32	44.13	Blaine Tech
	11/3/2014	78.07	37.48	33.09	4.39	44.10	Blaine Tech
	11/18/2014	78.07	37.44	33.15	4.29	44.06	Blaine Tech
	11/25/2014	78.07	37.35	33.21	4.14	44.03	Blaine Tech
	12/3/2014	78.07	37.31	33.12	4.19	44.11	Blaine Tech
	12/12/2014	78.07	37.92	33.45	4.47	43.73	Blaine Tech
	12/19/2014	78.07	38.25	33.50	4.75	43.62	Blaine Tech
	3/17/2015	78.07	36.42	34.05	2.37	43.55	Kinder Morgan
	4/20/2015	78.07	36.42	34.05	2.37	43.55	Blaine Tech
	10/20/2015	78.07	36.78	34.84	1.94	42.84	Kinder Morgan
	3/16/2016	78.07	39.03	---	---	39.04	Kinder Morgan
	4/11/2016	78.07	37.13	---	---	40.94	Blaine Tech
	6/29/2016	78.07	38.34	38.28	0.06	39.78	Blaine Tech
	8/22/2016	78.07	38.60	---	---	39.47	Blaine Tech
	10/3/2016	78.07	39.45	---	---	38.62	Blaine Tech
	3/10/2017	78.07	36.09	---	---	41.98	CH2M
	4/17/2017	78.07	35.12	---	---	42.95	Blaine Tech
MW-SF-13	8/14/2007	73.40	22.98	---	---	50.42	Geomatrix
	8/21/2007	73.40	23.11	---	---	50.29	Geomatrix
	8/28/2007	73.40	22.85	---	---	50.55	Stantec
	9/11/2007	73.40	23.10	---	---	50.30	Geomatrix
	10/5/2007	73.40	28.11	---	---	45.29	Geomatrix
	11/2/2007	73.40	25.43	25.41	0.02	47.99	Geomatrix
	11/12/2007	73.40	23.70	---	---	49.70	Stantec
	12/21/2007	73.40	24.45	24.42	0.03	48.97	Geomatrix
	8/15/2008	73.40	27.38	24.11	3.27	48.47	Envent
	10/17/2008	73.40	27.28	24.33	2.95	48.33	Envent
	10/21/2008	73.40	27.14	24.26	2.88	48.42	Envent
	12/17/2008	73.40	26.21	24.70	1.51	48.32	Envent
	1/15/2009	73.40	26.90	24.80	2.10	48.08	Envent
	3/27/2009	73.40	26.46	25.49	0.97	47.67	Envent
	4/21/2009	73.40	24.86	24.78	0.08	48.60	Envent
	7/21/2009	73.40	25.72	25.48	0.24	47.86	Envent
	10/19/2009	73.40	NM	---	---	NC	Blaine Tech
	11/6/2009	73.40	25.72	---	---	47.68	Kinder Morgan
	2/4/2010	73.40	25.43	25.30	0.13	48.07	Kinder Morgan

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	9/3/2010	73.40	27.40	25.71	1.69	47.27	Kinder Morgan
	10/4/2010	73.40	26.95	25.92	1.03	47.22	Blaine Tech
	4/12/2011	73.40	24.79	24.78	0.01	48.62	Blaine Tech
	10/10/2011	73.40	26.00	---	---	47.40	Blaine Tech
	4/16/2012	73.40	27.19	---	---	46.21	Blaine Tech
	7/9/2012	73.40	NM	---	---	NC	Blaine Tech
	10/15/2012	73.40	27.01	---	---	46.39	Blaine Tech
	4/8/2013	73.40	27.90	---	---	45.50	Blaine Tech
	10/7/2013	73.40	NM	---	---	NC	Blaine Tech
	11/14/2013	73.40	29.95	28.25	1.70	44.73	Blaine Tech
	4/14/2014	73.40	31.36	28.47	2.89	44.21	Blaine Tech
	5/5/2014	73.40	31.62	28.49	3.13	44.13	Nieto & Sons
	5/12/2014	73.40	30.02	28.88	1.14	44.24	Nieto & Sons
	5/20/2014	73.40	31.10	29.77	1.33	43.30	Nieto & Sons
	5/27/2014	73.40	30.17	29.48	0.69	43.75	Nieto & Sons
	6/4/2014	73.40	30.22	---	---	43.18	Nieto & Sons
	6/10/2014	73.40	30.20	29.76	0.44	43.53	Nieto & Sons
	7/3/2014	73.40	30.49	29.88	0.61	43.37	Nieto & Sons
	7/24/2014	73.40	30.50	29.54	0.96	43.62	Blaine Tech
	8/1/2014	73.40	29.82	29.25	0.57	44.01	Blaine Tech
	8/8/2014	73.40	34.07	33.71	0.36	39.60	Blaine Tech
	8/14/2014	73.40	29.96	29.13	0.83	44.06	Blaine Tech
	8/19/2014	73.40	29.91	29.15	0.76	44.06	Blaine Tech
	8/29/2014	73.40	30.15	29.02	1.13	44.10	Blaine Tech
	9/5/2014	73.40	30.19	29.08	1.11	44.04	Blaine Tech
	9/11/2014	73.40	30.66	28.91	1.75	44.05	Blaine Tech
	9/18/2014	73.40	30.41	29.15	1.26	43.94	Blaine Tech
	9/26/2014	73.40	30.18	29.14	1.04	44.00	Blaine Tech
	10/1/2014	73.40	30.38	29.05	1.33	44.02	Blaine Tech
	10/6/2014	73.40	30.10	29.12	0.98	44.04	Blaine Tech
	10/13/2014	73.40	30.28	29.07	1.21	44.03	Blaine Tech
	10/23/2014	73.40	30.72	28.95	1.77	44.01	Blaine Tech
	10/27/2014	73.40	30.21	29.06	1.15	44.05	Blaine Tech
	11/3/2014	73.40	30.62	28.93	1.69	44.05	Blaine Tech
	11/18/2014	73.40	30.54	29.11	1.43	43.93	Blaine Tech
	11/25/2014	73.40	29.48	29.14	0.34	44.18	Blaine Tech
	12/3/2014	73.40	31.02	28.93	2.09	43.95	Blaine Tech
	12/12/2014	73.40	31.05	29.40	1.65	43.59	Blaine Tech
	12/19/2014	73.40	31.11	29.40	1.71	43.57	Blaine Tech
	4/20/2015	73.40	32.44	29.04	3.40	43.51	Blaine Tech
	10/19/2015	73.40	35.16	29.31	5.85	42.63	Blaine Tech
	3/14/2016	73.40	34.72	---	---	38.68	Blaine Tech
	4/11/2016	73.40	32.28	---	---	41.12	Blaine Tech
	6/29/2016	73.40	33.62	---	---	39.78	Blaine Tech
	8/22/2016	73.40	33.66	---	---	39.74	Blaine Tech
	10/3/2016	73.40	34.20	---	---	39.20	Blaine Tech
	3/24/2017	73.40	31.25	---	---	42.15	CH2M
	4/17/2017	73.40	30.40	---	---	43.00	Blaine Tech
MW-SF-14	8/14/2007	78.16	27.68	---	---	50.48	Geomatrix
	8/21/2007	78.16	27.60	---	---	50.56	Geomatrix
	8/28/2007	78.16	27.53	---	---	50.63	Stantec
	9/11/2007	78.16	27.66	---	---	50.50	Geomatrix
	10/5/2007	78.16	27.75	---	---	50.41	Geomatrix
	11/2/2007	78.16	29.83	---	---	48.33	Geomatrix
	11/12/2007	78.16	NM	---	---	NC	Secor
	8/15/2008	78.16	29.77	29.24	0.53	48.81	Envent
	10/17/2008	78.16	29.52	29.50	0.02	48.66	Envent
	12/18/2008	78.16	30.62	---	---	47.54	Envent

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	1/15/2009	78.16	30.08	---	---	48.08	Envent
	3/24/2009	78.16	29.73	---	---	48.43	Envent
	4/21/2009	78.16	29.61	---	---	48.55	Envent
	7/21/2009	78.16	29.20	---	---	48.96	Envent
	10/19/2009	78.16	NM	---	---	NC	Blaine Tech
	11/6/2009	78.16	30.48	---	---	47.68	Kinder Morgan
	12/9/2009	78.16	30.68	---	---	47.48	Kinder Morgan
	6/22/2010	78.16	26.17	---	---	51.99	Blaine Tech
	10/4/2010	78.16	30.54	---	---	47.62	Blaine Tech
	4/12/2011	78.16	29.55	---	---	48.61	Blaine Tech
	10/10/2011	78.16	29.84	---	---	48.32	Blaine Tech
	4/16/2012	78.16	NM	---	---	NC	Blaine Tech
	7/9/2012	78.16	NM	---	---	NC	Blaine Tech
	10/15/2012	78.16	30.02	---	---	48.14	Blaine Tech
	4/8/2013	78.16	32.75	---	---	45.41	Blaine Tech
	5/24/2013	78.16	32.75	---	---	45.41	Blaine Tech
	9/26/2013	78.16	34.50	34.25	0.25	43.86	Blaine Tech
	10/7/2013	78.16	NM	---	---	NC	Blaine Tech
	11/14/2013	78.16	33.57	33.19	0.38	44.89	Blaine Tech
	4/14/2014	78.16	34.81	33.56	1.25	44.35	Blaine Tech
	8/8/2014	78.16	34.24	33.98	0.26	44.13	Blaine Tech
	10/14/2014	78.16	34.36	33.80	0.56	44.25	Blaine Tech
	10/23/2014	78.16	34.49	34.43	0.06	43.72	Blaine Tech
	10/27/2014	78.16	34.40	33.97	0.43	44.10	Blaine Tech
	11/18/2014	78.16	34.27	34.07	0.20	44.05	Blaine Tech
	4/20/2015	78.16	34.48	---	---	43.68	Blaine Tech
	10/21/2015	78.16	35.25	---	---	42.91	Blaine Tech
	3/14/2016	78.16	36.21	---	---	41.95	Blaine Tech
	4/11/2016	78.16	37.14	---	---	41.02	Blaine Tech
	6/29/2016	78.16	37.36	---	---	40.80	Blaine Tech
	8/22/2016	78.16	DRY	---	---	NC	Blaine Tech
	10/3/2016	78.16	DRY	---	---	NC	Blaine Tech
	4/17/2017	78.16	35.40	---	---	42.76	Blaine Tech
MW-SF-15	8/14/2007	78.27	27.78	27.75	0.03	50.51	Geomatrix
	8/21/2007	78.27	27.69	27.65	0.04	50.61	Geomatrix
	8/28/2007	78.27	27.65	27.61	0.04	50.65	Stantec
	9/11/2007	78.27	27.62	---	---	50.65	Geomatrix
	10/5/2007	78.27	28.15	---	---	50.12	Geomatrix
	11/2/2007	78.27	30.45	30.20	0.25	48.02	Geomatrix
	11/12/2007	78.27	28.75	---	---	49.52	Stantec
	8/15/2008	78.27	30.12	29.35	0.77	48.77	Envent
	10/17/2008	78.27	30.80	29.44	1.36	48.56	Envent
	10/21/2008	78.27	30.80	29.31	1.49	48.66	Envent
	12/18/2008	78.27	32.11	30.56	1.55	47.40	Envent
	1/15/2009	78.27	31.75	29.70	2.05	48.16	Envent
	3/24/2009	78.27	30.32	29.93	0.39	48.26	Envent
	4/21/2009	78.27	29.96	29.60	0.36	48.60	Envent
	7/21/2009	78.27	30.45	---	---	47.82	Envent
	10/19/2009	78.27	NM	---	---	NC	Blaine Tech
	11/4/2009	78.27	31.10	30.45	0.36	47.46	Kinder Morgan
	12/9/2009	78.27	30.87	---	---	47.40	Kinder Morgan
	10/4/2010	78.27	30.66	30.65	0.01	47.62	Blaine Tech
	4/12/2011	78.27	30.50	29.40	1.10	48.65	Blaine Tech
	10/10/2011	78.27	29.60	---	---	48.67	Blaine Tech
	12/2/2011	78.27	31.40	30.05	1.35	47.95	Blaine Tech
	4/16/2012	78.27	32.48	32.39	0.09	45.86	Blaine Tech
	7/9/2012	78.27	NM	---	---	NC	Blaine Tech
	10/15/2012	78.16	33.04	---	---	45.12	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	4/8/2013	78.27	33.90	---	---	44.37	Blaine Tech
	5/24/2013	78.27	33.90	---	---	44.37	Blaine Tech
	10/7/2013	78.27	NM	---	---	NC	Blaine Tech
	11/14/2013	78.27	33.41	33.38	0.03	44.88	Blaine Tech
	4/18/2014	78.27	33.85	---	---	44.42	Blaine Tech
	8/8/2014	78.27	34.87	33.96	0.91	44.13	Blaine Tech
	8/13/2014	78.27	34.89	33.95	0.94	44.13	Blaine Tech
	8/19/2014	78.27	34.90	33.94	0.96	44.14	Blaine Tech
	8/29/2014	78.27	35.65	35.38	0.27	42.84	Blaine Tech
	10/27/2014	78.27	35.82	---	---	42.45	Blaine Tech
	4/20/2015	78.27	36.63	34.12	2.51	43.65	Blaine Tech
	10/19/2015	78.27	37.90	34.87	3.03	42.79	Blaine Tech
	11/17/2015	78.27	37.71	35.36	2.35	42.44	Kinder Morgan
	3/14/2016	78.27	39.70	---	---	38.57	Blaine Tech
	4/11/2016	78.27	37.24	---	---	41.03	Blaine Tech
	6/29/2016	78.27	38.70	---	---	39.57	Blaine Tech
	8/22/2016	78.27	38.78	---	---	39.49	Blaine Tech
	10/3/2016	78.27	39.56	---	---	38.71	Blaine Tech
	3/23/2017	78.27	36.10	---	---	42.17	CH2M
	4/17/2017	78.27	35.39	---	---	42.88	Blaine Tech
MW-SF-16	8/14/2007	78.21	27.68	---	---	50.53	Geomatrix
	8/21/2007	78.21	27.33	---	---	50.88	Geomatrix
	8/28/2007	78.21	27.51	---	---	50.70	Stantec
	9/11/2007	78.21	27.59	---	---	50.62	Geomatrix
	10/5/2007	78.21	28.10	---	---	50.11	Geomatrix
	11/2/2007	78.21	29.81	---	---	48.40	Geomatrix
	11/12/2007	78.21	28.40	---	---	49.81	Stantec
	8/15/2008	78.21	29.36	---	---	48.85	Envent
	10/17/2008	78.21	29.51	---	---	48.70	Envent
	12/18/2008	78.21	30.94	---	---	47.27	Envent
	1/15/2009	78.21	30.01	30.00	0.01	48.21	Envent
	3/24/2009	78.21	29.82	---	---	48.39	Envent
	4/21/2009	78.21	29.60	---	---	48.61	Envent
	7/21/2009	78.21	30.36	---	---	47.85	Envent
	10/19/2009	78.21	NM	---	---	NC	Blaine Tech
	11/4/2009	78.21	30.58	---	---	47.63	Kinder Morgan
	2/4/2010	78.21	30.36	---	---	47.85	Kinder Morgan
	9/3/2010	78.21	30.25	---	---	47.96	Kinder Morgan
	10/4/2010	78.21	30.49	---	---	47.72	Blaine Tech
	4/12/2011	78.21	29.52	---	---	48.69	Blaine Tech
	10/10/2011	78.21	29.85	---	---	48.36	Blaine Tech
	4/16/2012	78.21	NM	---	---	NC	Blaine Tech
	7/9/2012	78.21	NM	---	---	NC	Blaine Tech
	10/15/2012	78.21	32.47	---	---	45.74	Blaine Tech
	4/8/2013	78.21	32.97	32.73	0.24	45.43	Blaine Tech
	5/24/2013	78.21	32.97	32.73	0.24	45.43	Blaine Tech
	10/7/2013	78.21	NM	---	---	NC	Blaine Tech
	11/14/2013	78.21	33.80	33.21	0.59	44.88	Blaine Tech
	4/18/2014	78.21	34.20	33.65	0.55	44.45	Blaine Tech
	8/8/2014	78.21	34.06	34.05	0.01	44.16	Blaine Tech
	10/27/2014	78.21	34.25	---	---	43.96	Blaine Tech
	4/20/2015	78.21	34.52	---	---	43.69	Blaine Tech
	6/8/2015	78.21	35.17	35.00	0.17	43.18	Blaine Tech
	10/21/2015	78.21	34.56	---	---	43.65	Kinder Morgan
	3/14/2016	78.21	39.60	---	---	38.61	Blaine Tech
	4/11/2016	78.21	37.15	---	---	41.06	Blaine Tech
	6/29/2016	78.21	38.35	---	---	39.86	Blaine Tech
	8/22/2016	78.21	38.51	---	---	39.70	Blaine Tech

Table 7. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/3/2016	78.21	39.35	---	---	38.86	Blaine Tech
	4/17/2017	78.21	35.20	---	---	43.01	Blaine Tech

Notes:

Corrected groundwater elevations are based on specific gravity data collected during baildown testing, or a default value of 0.8 was used for wells not tested.

--- = not detected or not applicable

DRY = No measurable water observed in the well.

feet btoc = feet below top of casing

feet msl = feet above mean sea level based on National Geodetic Vertical Datum of 1929

NC = not calculated

NM = not measured

Figures

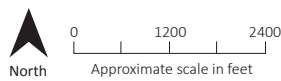
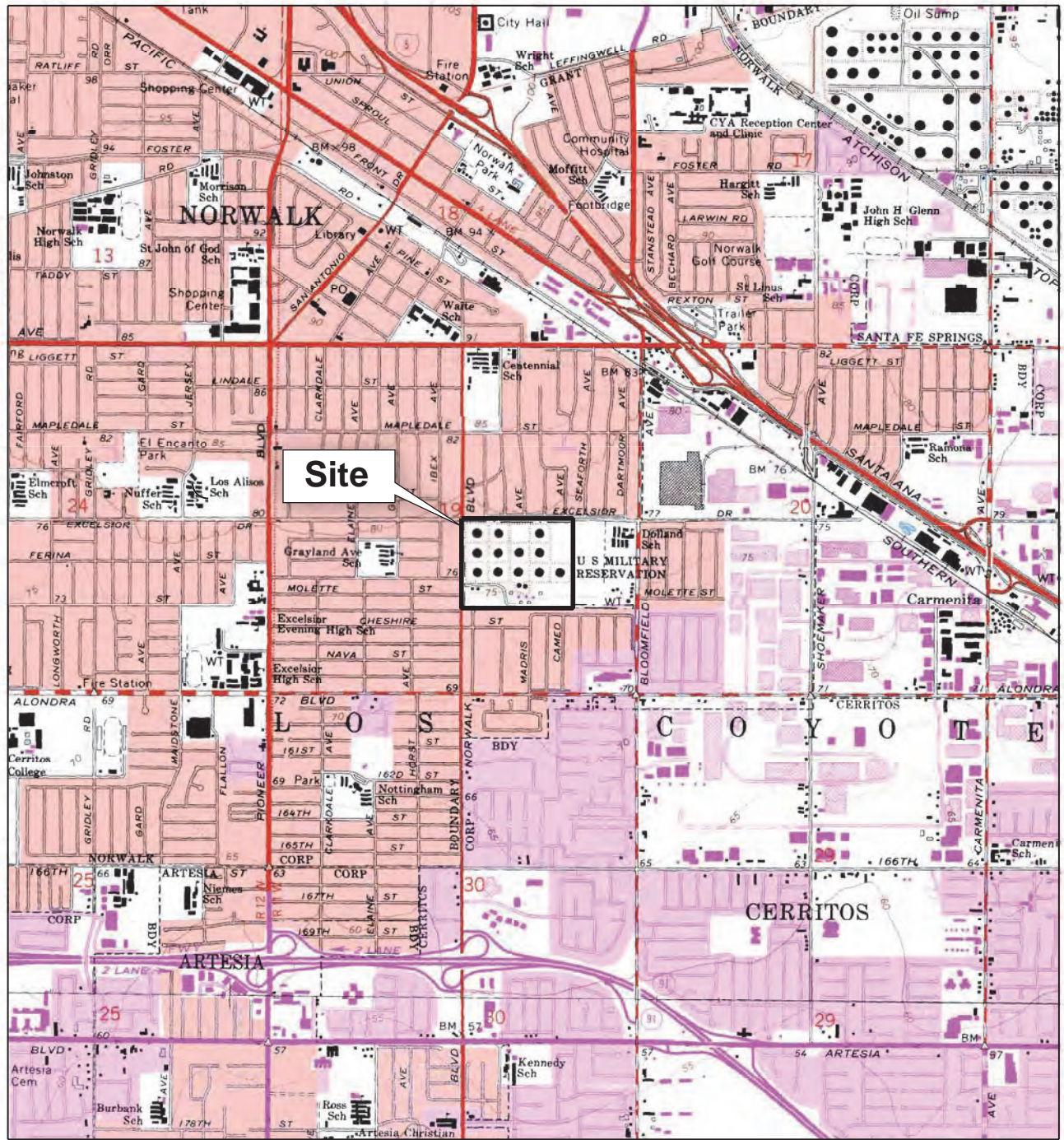
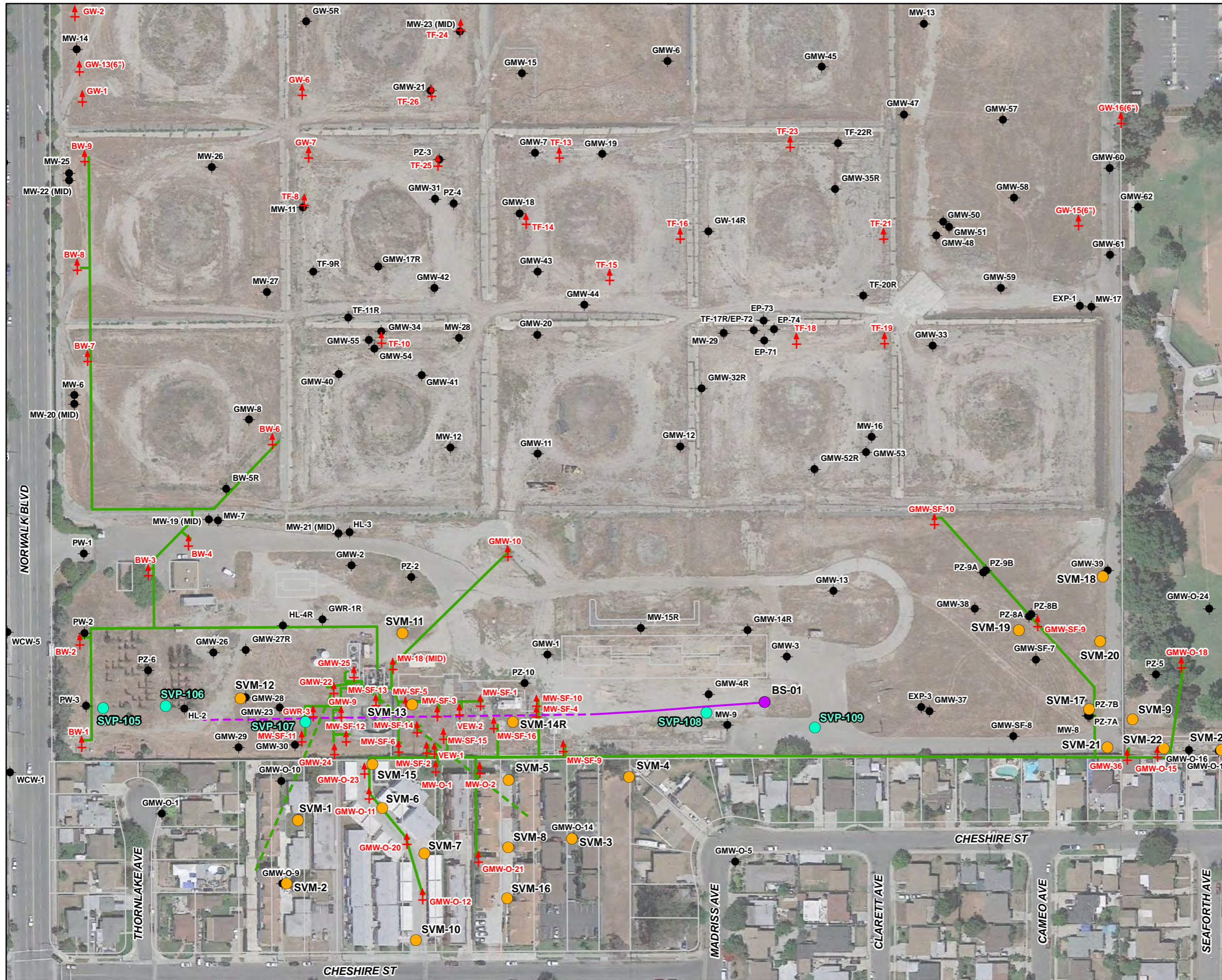


Figure 1
Site Location Map
SFP Norwalk Pump Station
Norwalk, California

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



Legend

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

Imagery Source:
Google Earth April 17, 2013.

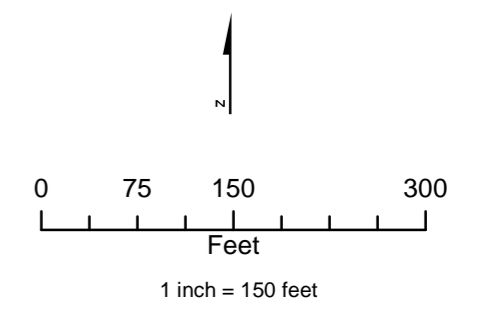


Figure 2
Remediation System Layout
SFPP Norwalk Pump Station
Norwalk, California

Appendix A
Laboratory Analytical Reports

July 27, 2017

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

TEL:

FAX:

Workorder No.: N025119

RE: SFPP Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on July 20, 2017 by ASSET Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,



Puri Romualdo
Laboratory Director

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

CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N025119

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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



CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N025119
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N025119-001A	INF-07-20	Wastewater	7/20/2017 1:45:00 PM	7/20/2017	7/27/2017
N025119-001B	INF-07-20	Wastewater	7/20/2017 1:45:00 PM	7/20/2017	7/27/2017



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jul-17

CLIENT: CH2MHill
Lab Order: N025119
Project: SFPP Norwalk
Lab ID: N025119-001

Client Sample ID: INF-07-20
Collection Date: 7/20/2017 1:45:00 PM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: NV00922-MS5_170721A	QC Batch: P17VW122				PrepDate	Analyst: RB	
1,1,1,2-Tetrachloroethane	ND	0.066	1.0		ug/L	1	7/21/2017 08:43 PM
1,1,1-Trichloroethane	ND	0.068	1.0		ug/L	1	7/21/2017 08:43 PM
1,1,2,2-Tetrachloroethane	ND	0.031	1.0		ug/L	1	7/21/2017 08:43 PM
1,1,2-Trichloroethane	ND	0.062	1.0		ug/L	1	7/21/2017 08:43 PM
1,1-Dichloroethane	ND	0.022	0.50		ug/L	1	7/21/2017 08:43 PM
1,1-Dichloroethene	ND	0.087	1.0		ug/L	1	7/21/2017 08:43 PM
1,1-Dichloropropene	ND	0.044	1.0		ug/L	1	7/21/2017 08:43 PM
1,2,3-Trichlorobenzene	ND	0.056	1.0		ug/L	1	7/21/2017 08:43 PM
1,2,3-Trichloropropane	ND	0.059	1.0		ug/L	1	7/21/2017 08:43 PM
1,2,4-Trichlorobenzene	ND	0.060	1.0		ug/L	1	7/21/2017 08:43 PM
1,2,4-Trimethylbenzene	0.25	0.042	1.0	J	ug/L	1	7/21/2017 08:43 PM
1,2-Dibromo-3-chloropropane	ND	0.047	2.0		ug/L	1	7/21/2017 08:43 PM
1,2-Dibromoethane	ND	0.057	1.0		ug/L	1	7/21/2017 08:43 PM
1,2-Dichlorobenzene	ND	0.040	1.0		ug/L	1	7/21/2017 08:43 PM
1,2-Dichloroethane	0.35	0.064	0.50	J	ug/L	1	7/21/2017 08:43 PM
1,2-Dichloropropane	ND	0.062	1.0		ug/L	1	7/21/2017 08:43 PM
1,3,5-Trimethylbenzene	0.21	0.015	1.0	J	ug/L	1	7/21/2017 08:43 PM
1,3-Dichlorobenzene	ND	0.057	1.0		ug/L	1	7/21/2017 08:43 PM
1,3-Dichloropropane	ND	0.040	1.0		ug/L	1	7/21/2017 08:43 PM
1,4-Dichlorobenzene	ND	0.030	1.0		ug/L	1	7/21/2017 08:43 PM
2,2-Dichloropropane	ND	0.026	1.0		ug/L	1	7/21/2017 08:43 PM
2-Butanone	ND	0.48	10		ug/L	1	7/21/2017 08:43 PM
2-Chlorotoluene	ND	0.040	1.0		ug/L	1	7/21/2017 08:43 PM
4-Chlorotoluene	ND	0.036	1.0		ug/L	1	7/21/2017 08:43 PM
4-Isopropyltoluene	ND	0.022	1.0		ug/L	1	7/21/2017 08:43 PM
4-Methyl-2-pentanone	ND	0.17	10		ug/L	1	7/21/2017 08:43 PM
Acetone	7.7	1.1	10	J	ug/L	1	7/21/2017 08:43 PM
Benzene	ND	0.036	1.0		ug/L	1	7/21/2017 08:43 PM
Bromobenzene	ND	0.043	1.0		ug/L	1	7/21/2017 08:43 PM
Bromochloromethane	ND	0.22	1.0		ug/L	1	7/21/2017 08:43 PM
Bromodichloromethane	ND	0.031	1.0		ug/L	1	7/21/2017 08:43 PM
Bromoform	ND	0.32	1.0		ug/L	1	7/21/2017 08:43 PM
Bromomethane	ND	0.32	1.0		ug/L	1	7/21/2017 08:43 PM
Carbon disulfide	ND	0.025	1.0		ug/L	1	7/21/2017 08:43 PM
Carbon tetrachloride	ND	0.057	0.50		ug/L	1	7/21/2017 08:43 PM
Chlorobenzene	ND	0.036	1.0		ug/L	1	7/21/2017 08:43 PM

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

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



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ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jul-17

CLIENT: CH2MHill
Lab Order: N025119
Project: SFPP Norwalk
Lab ID: N025119-001

Client Sample ID: INF-07-20
Collection Date: 7/20/2017 1:45:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID: NV00922-MS5_170721A	QC Batch: P17VW122				PrepDate	Analyst: RB	
Chloroethane	ND	0.099	1.0		ug/L	1	7/21/2017 08:43 PM
Chloroform	ND	0.036	1.0		ug/L	1	7/21/2017 08:43 PM
Chloromethane	ND	0.12	1.0		ug/L	1	7/21/2017 08:43 PM
cis-1,2-Dichloroethene	ND	0.051	1.0		ug/L	1	7/21/2017 08:43 PM
cis-1,3-Dichloropropene	ND	0.044	1.0		ug/L	1	7/21/2017 08:43 PM
Di-isopropyl ether	4.2	0.017	1.0		ug/L	1	7/21/2017 08:43 PM
Dibromochloromethane	ND	0.072	1.0		ug/L	1	7/21/2017 08:43 PM
Dibromomethane	ND	0.17	1.0		ug/L	1	7/21/2017 08:43 PM
Dichlorodifluoromethane	ND	0.070	1.0		ug/L	1	7/21/2017 08:43 PM
Ethyl tert-butyl ether	ND	0.039	1.0		ug/L	1	7/21/2017 08:43 PM
Ethylbenzene	ND	0.036	1.0		ug/L	1	7/21/2017 08:43 PM
Freon-113	ND	0.074	1.0		ug/L	1	7/21/2017 08:43 PM
Hexachlorobutadiene	ND	0.11	1.0		ug/L	1	7/21/2017 08:43 PM
Isopropylbenzene	ND	0.034	1.0		ug/L	1	7/21/2017 08:43 PM
m,p-Xylene	0.35	0.024	1.0	J	ug/L	1	7/21/2017 08:43 PM
Methylene chloride	0.36	0.28	2.0	J	ug/L	1	7/21/2017 08:43 PM
MTBE	1.2	0.062	1.0		ug/L	1	7/21/2017 08:43 PM
n-Butylbenzene	ND	0.031	1.0		ug/L	1	7/21/2017 08:43 PM
n-Propylbenzene	ND	0.018	1.0		ug/L	1	7/21/2017 08:43 PM
Naphthalene	0.23	0.048	1.0	J	ug/L	1	7/21/2017 08:43 PM
o-Xylene	0.46	0.042	1.0	J	ug/L	1	7/21/2017 08:43 PM
sec-Butylbenzene	ND	0.025	1.0		ug/L	1	7/21/2017 08:43 PM
Styrene	ND	0.035	1.0		ug/L	1	7/21/2017 08:43 PM
Tert-amyl methyl ether	ND	0.039	1.0		ug/L	1	7/21/2017 08:43 PM
Tert-Butanol	38	0.30	5.0		ug/L	1	7/21/2017 08:43 PM
tert-Butylbenzene	ND	0.030	1.0		ug/L	1	7/21/2017 08:43 PM
Tetrachloroethene	ND	0.16	1.0		ug/L	1	7/21/2017 08:43 PM
Toluene	ND	0.042	2.0		ug/L	1	7/21/2017 08:43 PM
trans-1,2-Dichloroethene	ND	0.070	1.0		ug/L	1	7/21/2017 08:43 PM
trans-1,3-Dichloropropene	ND	0.039	1.0		ug/L	1	7/21/2017 08:43 PM
Trichloroethene	ND	0.12	1.0		ug/L	1	7/21/2017 08:43 PM
Trichlorofluoromethane	ND	0.031	1.0		ug/L	1	7/21/2017 08:43 PM
Vinyl chloride	ND	0.095	0.50		ug/L	1	7/21/2017 08:43 PM
Xylenes, Total	ND	1.5	2.0		ug/L	1	7/21/2017 08:43 PM
Surr: 1,2-Dichloroethane-d4	107	0	72-119		%REC	1	7/21/2017 08:43 PM
Surr: 4-Bromofluorobenzene	102	0	76-119		%REC	1	7/21/2017 08:43 PM

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

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



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ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jul-17

CLIENT: CH2MHill	Client Sample ID: INF-07-20
Lab Order: N025119	Collection Date: 7/20/2017 1:45:00 PM
Project: SFPP Norwalk	Matrix: WASTEWATER
Lab ID: N025119-001	

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

EPA 8260B

RunID: NV00922-MS5_170721A	QC Batch: P17VW122						Analyst: RB
Surr: Dibromofluoromethane	106	0	85-115		%REC	1	7/21/2017 08:43 PM
Surr: Toluene-d8	105	0	81-120		%REC	1	7/21/2017 08:43 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: NV00922-GC3_170724B	QC Batch: 63001					7/24/2017	Analyst: QCE
TPH-Diesel (C13-C22)	400	15	25		ug/L	1	7/25/2017 03:50 AM
TPH-Oil (C23-C36)	180	14	25		ug/L	1	7/25/2017 03:50 AM
Surr: Octacosane	96.2	0	26-152		%REC	1	7/25/2017 03:50 AM
Surr: p-Terphenyl	93.2	0	57-132		%REC	1	7/25/2017 03:50 AM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: NV00922-GC4_170721A	QC Batch: E17VW066						Analyst: RB
TPH-Gasoline (C4-C12)	17	16	50	J	ug/L	1	7/21/2017 12:00 PM
Surr: Chlorobenzene - d5	113	0	74-138		%REC	1	7/21/2017 12:00 PM

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_170724B	QC Batch: R116577						Analyst: QCE
Total TPH	600	16	100		ug/L	1	7/24/2017

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



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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ORELAP/NELAP Cert 4046

CLIENT: CH2MHill
Work Order: N025119
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID MB-63001	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 7/24/2017	RunNo: 116577						
Client ID: PBW	Batch ID: 63001	TestNo: EPA 8015B EPA 3510C		Analysis Date: 7/24/2017	SeqNo: 2703700						
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)	13.671	25									J
Surr: Octacosane	73.749		80.00		92.2	26	152				
Surr: p-Terphenyl	74.043		80.00		92.6	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: N025119
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID MB-R116577	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date:	RunNo: 116577						
Client ID: PBW	Batch ID: R116577	TestNo: EPA 8015B		Analysis Date: 7/24/2017	SeqNo: 2708048						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	ND	100									

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N025119
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID E170721LCS	SampType: LCS	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 116493						
Client ID: LCSW	Batch ID: E17VW066	TestNo: EPA 8015B		Analysis Date: 7/21/2017	SeqNo: 2699385						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	933.000	50	1000	0	93.3	67	136				
Surr: Chlorobenzene - d5	48717.000		50000		97.4	74	138				

Sample ID E170721LCSD	SampType: LCSD	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 116493						
Client ID: LCSS02	Batch ID: E17VW066	TestNo: EPA 8015B		Analysis Date: 7/21/2017	SeqNo: 2699386						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	801.000	50	1000	0	80.1	67	136	933.0	15.2	30	
Surr: Chlorobenzene - d5	49560.000		50000		99.1	74	138		0	0	

Sample ID E170721MB1	SampType: MBLK	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 116493						
Client ID: PBW	Batch ID: E17VW066	TestNo: EPA 8015B		Analysis Date: 7/21/2017	SeqNo: 2699387						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	ND	50									
Surr: Chlorobenzene - d5	57282.000		50000		115	74	138				

Sample ID N025119-001AMS	SampType: MS	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 116493						
Client ID: ZZZZZ	Batch ID: E17VW066	TestNo: EPA 8015B		Analysis Date: 7/21/2017	SeqNo: 2699390						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	871.000	50	1000	17.00	85.4	67	136				
Surr: Chlorobenzene - d5	48744.000		50000		97.5	74	138				

Sample ID N025119-001AMSD	SampType: MSD	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 116493						
Client ID: ZZZZZ	Batch ID: E17VW066	TestNo: EPA 8015B		Analysis Date: 7/21/2017	SeqNo: 2699391						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	897.000	50	1000	17.00	88.0	67	136	871.0	2.94	30	
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Qualifiers:

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| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |

CLIENT: CH2MHill
Work Order: N025119
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID N025119-001AMSD	SampType: MSD	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 116493						
Client ID: ZZZZZZ	Batch ID: E17VW066	TestNo: EPA 8015B		Analysis Date: 7/21/2017	SeqNo: 2699391						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	50161.000		50000		100	74	138		0	0	

Qualifiers:

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Work Order: N025119
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	R170721LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116531					
Client ID:	LCSW	Batch ID:	P17VW122	TestNo:	EPA 8260B	Analysis Date:	7/21/2017	SeqNo:	2701751		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.090	1.0	20.00	0	100	81	129				
1,1,1-Trichloroethane	23.640	1.0	20.00	0	118	67	132				
1,1,2,2-Tetrachloroethane	20.570	1.0	20.00	0	103	63	128				
1,1,2-Trichloroethane	20.100	1.0	20.00	0	101	75	125				
1,1-Dichloroethane	20.770	0.50	20.00	0	104	69	133				
1,1-Dichloroethene	22.540	1.0	20.00	0	113	68	130				
1,1-Dichloropropene	23.970	1.0	20.00	0	120	73	132				
1,2,3-Trichlorobenzene	21.070	1.0	20.00	0	105	67	137				
1,2,3-Trichloropropane	19.820	1.0	20.00	0	99.1	73	124				
1,2,4-Trichlorobenzene	21.650	1.0	20.00	0	108	66	134				
1,2,4-Trimethylbenzene	22.470	1.0	20.00	0	112	74	132				
1,2-Dibromo-3-chloropropane	18.980	2.0	20.00	0	94.9	50	132				
1,2-Dibromoethane	19.950	1.0	20.00	0	99.8	80	121				
1,2-Dichlorobenzene	20.740	1.0	20.00	0	104	71	122				
1,2-Dichloroethane	20.160	0.50	20.00	0	101	69	132				
1,2-Dichloropropane	19.800	1.0	20.00	0	99.0	75	125				
1,3,5-Trimethylbenzene	23.160	1.0	20.00	0	116	74	131				
1,3-Dichlorobenzene	21.040	1.0	20.00	0	105	75	124				
1,3-Dichloropropane	20.840	1.0	20.00	0	104	73	126				
1,4-Dichlorobenzene	20.410	1.0	20.00	0	102	74	123				
2,2-Dichloropropane	23.400	1.0	20.00	0	117	69	137				
2-Butanone	202.840	10	200.0	0	101	49	136				
2-Chlorotoluene	22.160	1.0	20.00	0	111	73	126				
4-Chlorotoluene	22.000	1.0	20.00	0	110	74	128				
4-Isopropyltoluene	21.840	1.0	20.00	0	109	73	130				
4-Methyl-2-pentanone	210.380	10	200.0	0	105	58	134				
Acetone	197.370	10	200.0	0	98.7	40	135				
Benzene	21.050	1.0	20.00	0	105	81	122				
Bromobenzene	19.850	1.0	20.00	0	99.2	76	124				
Bromochloromethane	20.480	1.0	20.00	0	102	65	129				

Qualifiers:

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CLIENT: CH2MHill
Work Order: N025119
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
R170721LCS	LCS	8260_WP_SF	ug/L		116531						
Client ID: LCSW	Batch ID: P17VW122	TestNo: EPA 8260B		Analysis Date: 7/21/2017	SeqNo: 2701751						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	20.220	1.0	20.00	0	101	76	121				
Bromoform	17.650	1.0	20.00	0	88.2	69	128				
Bromomethane	23.470	1.0	20.00	0	117	53	141				
Carbon disulfide	20.280	1.0	20.00	0	101	75	125				
Carbon tetrachloride	22.840	0.50	20.00	0	114	66	138				
Chlorobenzene	21.070	1.0	20.00	0	105	81	122				
Chloroethane	24.830	1.0	20.00	0	124	58	133				
Chloroform	19.710	1.0	20.00	0	98.6	69	128				
Chloromethane	22.500	1.0	20.00	0	112	56	131				
cis-1,2-Dichloroethene	21.010	1.0	20.00	0	105	72	126				
cis-1,3-Dichloropropene	21.820	1.0	20.00	0	109	69	131				
Di-isopropyl ether	20.540	1.0	20.00	0	103	70	130				
Dibromochloromethane	19.530	1.0	20.00	0	97.6	66	133				
Dibromomethane	19.850	1.0	20.00	0	99.2	76	125				
Dichlorodifluoromethane	23.830	1.0	20.00	0	119	53	153				
Ethyl tert-butyl ether	19.950	1.0	20.00	0	99.8	70	130				
Ethylbenzene	21.620	1.0	20.00	0	108	73	127				
Freon-113	20.750	1.0	20.00	0	104	75	125				
Hexachlorobutadiene	22.310	1.0	20.00	0	112	67	131				
Isopropylbenzene	19.520	1.0	20.00	0	97.6	75	127				
m,p-Xylene	44.820	1.0	40.00	0	112	76	128				
Methylene chloride	19.930	2.0	20.00	0	99.7	63	137				
MTBE	19.490	1.0	20.00	0	97.5	65	123				
n-Butylbenzene	24.480	1.0	20.00	0	122	69	137				
n-Propylbenzene	23.600	1.0	20.00	0	118	72	129				
Naphthalene	20.980	1.0	20.00	0	105	54	138				
o-Xylene	22.170	1.0	20.00	0	111	80	121				
sec-Butylbenzene	23.680	1.0	20.00	0	118	72	127				
Styrene	21.240	1.0	20.00	0	106	65	134				
Tert-amyl methyl ether	19.550	1.0	20.00	0	97.8	70	130				

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N025119
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
R170721LCS	LCS	8260_WP_SF	ug/L		116531						
Client ID: LCSW	Batch ID: P17VW122	TestNo: EPA 8260B		Analysis Date: 7/21/2017	SeqNo: 2701751						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	93.910	5.0	100.0	0	93.9	70	130				
tert-Butylbenzene	24.270	1.0	20.00	0	121	70	129				
Tetrachloroethene	21.790	1.0	20.00	0	109	66	128				
Toluene	20.990	2.0	20.00	0	105	77	122				
trans-1,2-Dichloroethene	22.530	1.0	20.00	0	113	63	137				
trans-1,3-Dichloropropene	20.420	1.0	20.00	0	102	59	135				
Trichloroethene	22.450	1.0	20.00	0	112	70	127				
Trichlorofluoromethane	25.350	1.0	20.00	0	127	57	129				
Vinyl chloride	26.410	0.50	20.00	0	132	50	134				
Xylenes, Total	66.990	2.0	60.00	0	112	75	125				
Surr: 1,2-Dichloroethane-d4	27.360		25.00		109	72	119				
Surr: 4-Bromofluorobenzene	26.280		25.00		105	76	119				
Surr: Dibromofluoromethane	27.570		25.00		110	85	115				
Surr: Toluene-d8	25.520		25.00		102	81	120				

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
R170721MB3	MBLK	8260_WP_SF	ug/L		116531						
Client ID: PBW	Batch ID: P17VW122	TestNo: EPA 8260B		Analysis Date: 7/21/2017	SeqNo: 2701754						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
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									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	0.160	1.0									J
1,2,4-Trimethylbenzene	ND	1.0									

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N025119
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
R170721MB3	MBLK	8260_WP_SF	ug/L		116531						
Client ID: PBW	Batch ID: P17VW122	TestNo: EPA 8260B		Analysis Date: 7/21/2017	SeqNo: 2701754						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	4.840	10									J
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	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-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									

Qualifiers:

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CLIENT: CH2MHill
Work Order: N025119
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
R170721MB3	MBLK	8260_WP_SF	ug/L		116531						
Client ID: PBW	Batch ID: P17VW122	TestNo: EPA 8260B		Analysis Date: 7/21/2017	SeqNo: 2701754						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	0.580	2.0									J
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	0.270	1.0									J
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
tert-Butylbenzene	ND	1.0									
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									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	0.50									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	27.200		25.00		109	72	119				

Qualifiers:

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID R170721MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116531						
Client ID: PBW	Batch ID: P17VW122	TestNo: EPA 8260B		Analysis Date: 7/21/2017	SeqNo: 2701754						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	24.820		25.00		99.3	76	119				
Surr: Dibromofluoromethane	27.200		25.00		109	85	115				
Surr: Toluene-d8	25.430		25.00		102	81	120				

Sample ID N025085-001FMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116531						
Client ID: ZZZZZ	Batch ID: P17VW122	TestNo: EPA 8260B		Analysis Date: 7/21/2017	SeqNo: 2701762						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.670	1.0	20.00	0	98.4	81	129				
1,1,1-Trichloroethane	20.420	1.0	20.00	0	102	67	132				
1,1,2,2-Tetrachloroethane	21.640	1.0	20.00	0	108	63	128				
1,1,2-Trichloroethane	20.750	1.0	20.00	0	104	75	125				
1,1-Dichloroethane	19.260	0.50	20.00	0	96.3	69	133				
1,1-Dichloroethene	19.390	1.0	20.00	0	97.0	68	130				
1,1-Dichloropropene	21.240	1.0	20.00	0	106	73	132				
1,2,3-Trichlorobenzene	20.970	1.0	20.00	0	105	67	137				
1,2,3-Trichloropropane	20.490	1.0	20.00	0	102	73	124				
1,2,4-Trichlorobenzene	20.500	1.0	20.00	0	103	66	134				
1,2,4-Trimethylbenzene	20.320	1.0	20.00	0	102	74	132				
1,2-Dibromo-3-chloropropane	21.130	2.0	20.00	0	106	50	132				
1,2-Dibromoethane	21.110	1.0	20.00	0	106	80	121				
1,2-Dichlorobenzene	20.060	1.0	20.00	0	100	71	122				
1,2-Dichloroethane	20.390	0.50	20.00	0	102	69	132				
1,2-Dichloropropane	20.150	1.0	20.00	0	101	75	125				
1,3,5-Trimethylbenzene	20.560	1.0	20.00	0	103	74	131				
1,3-Dichlorobenzene	19.410	1.0	20.00	0	97.0	75	124				
1,3-Dichloropropane	21.660	1.0	20.00	0	108	73	126				
1,4-Dichlorobenzene	19.330	1.0	20.00	0	96.7	74	123				
2,2-Dichloropropane	19.460	1.0	20.00	0	97.3	69	137				
2-Butanone	223.280	10	200.0	0	112	49	136				

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: N025119
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	N025085-001FMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116531					
Client ID:	ZZZZZZ	Batch ID:	P17VW122	TestNo:	EPA 8260B	Analysis Date:	7/21/2017	SeqNo:	2701762		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorotoluene	20.070	1.0	20.00	0	100	73	126				
4-Chlorotoluene	20.130	1.0	20.00	0	101	74	128				
4-Isopropyltoluene	18.790	1.0	20.00	0	94.0	73	130				
4-Methyl-2-pentanone	237.970	10	200.0	0	119	58	134				
Acetone	214.980	10	200.0	11.77	102	40	135				
Benzene	19.690	1.0	20.00	0	98.4	81	122				
Bromobenzene	19.140	1.0	20.00	0	95.7	76	124				
Bromochloromethane	20.980	1.0	20.00	0	105	65	129				
Bromodichloromethane	19.480	1.0	20.00	0	97.4	76	121				
Bromoform	18.750	1.0	20.00	0	93.8	69	128				
Bromomethane	22.320	1.0	20.00	0	112	53	141				
Carbon disulfide	17.090	1.0	20.00	0	85.4	75	125				
Carbon tetrachloride	19.980	0.50	20.00	0	99.9	66	138				
Chlorobenzene	20.060	1.0	20.00	0	100	81	122				
Chloroethane	21.180	1.0	20.00	0	106	58	133				
Chloroform	18.390	1.0	20.00	0	92.0	69	128				
Chloromethane	20.600	1.0	20.00	0	103	56	131				
cis-1,2-Dichloroethene	19.700	1.0	20.00	0	98.5	72	126				
cis-1,3-Dichloropropene	21.060	1.0	20.00	0	105	69	131				
Di-isopropyl ether	19.980	1.0	20.00	0	99.9	70	130				
Dibromochloromethane	19.830	1.0	20.00	0	99.2	66	133				
Dibromomethane	20.230	1.0	20.00	0	101	76	125				
Dichlorodifluoromethane	20.200	1.0	20.00	0	101	53	153				
Ethyl tert-butyl ether	20.480	1.0	20.00	0	102	70	130				
Ethylbenzene	19.880	1.0	20.00	0	99.4	73	127				
Freon-113	17.640	1.0	20.00	0	88.2	75	125				
Hexachlorobutadiene	19.110	1.0	20.00	0	95.6	67	131				
Isopropylbenzene	17.330	1.0	20.00	0	86.7	75	127				
m,p-Xylene	41.030	1.0	40.00	0	103	76	128				
Methylene chloride	20.380	2.0	20.00	1.790	93.0	63	137				

Qualifiers:

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

CLIENT: CH2MHill
 Work Order: N025119
 Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	N025085-001FMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116531					
Client ID:	ZZZZZZ	Batch ID: P17VW122	TestNo: EPA 8260B		Analysis Date: 7/21/2017	SeqNo: 2701762					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	20.540	1.0	20.00	0	103	65	123				
n-Butylbenzene	20.900	1.0	20.00	0	104	69	137				
n-Propylbenzene	20.760	1.0	20.00	0	104	72	129				
Naphthalene	22.390	1.0	20.00	0	112	54	138				
o-Xylene	20.890	1.0	20.00	0	104	80	121				
sec-Butylbenzene	20.970	1.0	20.00	0	105	72	127				
Styrene	20.200	1.0	20.00	0	101	65	134				
Tert-amyl methyl ether	20.620	1.0	20.00	0	103	70	130				
Tert-Butanol	108.580	5.0	100.0	0	109	70	130				
tert-Butylbenzene	21.190	1.0	20.00	0	106	70	129				
Tetrachloroethene	20.030	1.0	20.00	0	100	66	128				
Toluene	19.370	2.0	20.00	0	96.9	77	122				
trans-1,2-Dichloroethene	19.930	1.0	20.00	0	99.7	63	137				
trans-1,3-Dichloropropene	20.540	1.0	20.00	0	103	59	135				
Trichloroethene	20.300	1.0	20.00	0	102	70	127				
Trichlorofluoromethane	21.550	1.0	20.00	0	108	57	129				
Vinyl chloride	23.010	0.50	20.00	0	115	50	134				
Xylenes, Total	61.920	2.0	60.00	0	103	75	125				
Surr: 1,2-Dichloroethane-d4	26.890		25.00		108	72	119				
Surr: 4-Bromofluorobenzene	26.330		25.00		105	76	119				
Surr: Dibromofluoromethane	27.310		25.00		109	85	115				
Surr: Toluene-d8	25.370		25.00		101	81	120				

Sample ID	N025085-001FMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116531					
Client ID:	ZZZZZZ	Batch ID: P17VW122	TestNo: EPA 8260B		Analysis Date: 7/21/2017	SeqNo: 2701763					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.430	1.0	20.00	0	97.2	81	129	19.67	1.23	20	
1,1,1-Trichloroethane	19.710	1.0	20.00	0	98.6	67	132	20.42	3.54	20	
1,1,2,2-Tetrachloroethane	21.430	1.0	20.00	0	107	63	128	21.64	0.975	20	

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N025119
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
N025085-001FMSD	MSD	8260_WP_SF	ug/L		116531						
Client ID: ZZZZZZ	Batch ID: P17VW122	TestNo: EPA 8260B		Analysis Date: 7/21/2017	SeqNo: 2701763						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	20.230	1.0	20.00	0	101	75	125	20.75	2.54	20	
1,1-Dichloroethane	18.720	0.50	20.00	0	93.6	69	133	19.26	2.84	20	
1,1-Dichloroethene	19.020	1.0	20.00	0	95.1	68	130	19.39	1.93	20	
1,1-Dichloropropene	20.410	1.0	20.00	0	102	73	132	21.24	3.99	20	
1,2,3-Trichlorobenzene	21.210	1.0	20.00	0	106	67	137	20.97	1.14	20	
1,2,3-Trichloropropane	21.220	1.0	20.00	0	106	73	124	20.49	3.50	20	
1,2,4-Trichlorobenzene	20.710	1.0	20.00	0	104	66	134	20.50	1.02	20	
1,2,4-Trimethylbenzene	20.680	1.0	20.00	0	103	74	132	20.32	1.76	20	
1,2-Dibromo-3-chloropropane	21.600	2.0	20.00	0	108	50	132	21.13	2.20	20	
1,2-Dibromoethane	20.270	1.0	20.00	0	101	80	121	21.11	4.06	20	
1,2-Dichlorobenzene	20.740	1.0	20.00	0	104	71	122	20.06	3.33	20	
1,2-Dichloroethane	20.230	0.50	20.00	0	101	69	132	20.39	0.788	20	
1,2-Dichloropropane	19.700	1.0	20.00	0	98.5	75	125	20.15	2.26	20	
1,3,5-Trimethylbenzene	20.490	1.0	20.00	0	102	74	131	20.56	0.341	20	
1,3-Dichlorobenzene	19.590	1.0	20.00	0	98.0	75	124	19.41	0.923	20	
1,3-Dichloropropane	21.030	1.0	20.00	0	105	73	126	21.66	2.95	20	
1,4-Dichlorobenzene	18.990	1.0	20.00	0	95.0	74	123	19.33	1.77	20	
2,2-Dichloropropane	19.000	1.0	20.00	0	95.0	69	137	19.46	2.39	20	
2-Butanone	211.570	10	200.0	0	106	49	136	223.3	5.39	20	
2-Chlorotoluene	20.300	1.0	20.00	0	102	73	126	20.07	1.14	20	
4-Chlorotoluene	20.570	1.0	20.00	0	103	74	128	20.13	2.16	20	
4-Isopropyltoluene	19.100	1.0	20.00	0	95.5	73	130	18.79	1.64	20	
4-Methyl-2-pentanone	232.390	10	200.0	0	116	58	134	238.0	2.37	20	
Acetone	207.280	10	200.0	11.77	97.8	40	135	215.0	3.65	20	
Benzene	19.440	1.0	20.00	0	97.2	81	122	19.69	1.28	20	
Bromobenzene	19.400	1.0	20.00	0	97.0	76	124	19.14	1.35	20	
Bromochloromethane	19.600	1.0	20.00	0	98.0	65	129	20.98	6.80	20	
Bromodichloromethane	19.350	1.0	20.00	0	96.8	76	121	19.48	0.670	20	
Bromoform	18.210	1.0	20.00	0	91.1	69	128	18.75	2.92	20	
Bromomethane	21.070	1.0	20.00	0	105	53	141	22.32	5.76	20	

Qualifiers:

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

CLIENT: CH2MHill
 Work Order: N025119
 Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	N025085-001FMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116531					
Client ID:	ZZZZZZ	Batch ID:	P17VW122	TestNo:	EPA 8260B	Analysis Date:	7/21/2017	SeqNo:	2701763		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	16.360	1.0	20.00	0	81.8	75	125	17.09	4.36	20	
Carbon tetrachloride	19.540	0.50	20.00	0	97.7	66	138	19.98	2.23	20	
Chlorobenzene	19.490	1.0	20.00	0	97.5	81	122	20.06	2.88	20	
Chloroethane	20.170	1.0	20.00	0	101	58	133	21.18	4.89	20	
Chloroform	18.200	1.0	20.00	0	91.0	69	128	18.39	1.04	20	
Chloromethane	19.690	1.0	20.00	0	98.4	56	131	20.60	4.52	20	
cis-1,2-Dichloroethene	19.620	1.0	20.00	0	98.1	72	126	19.70	0.407	20	
cis-1,3-Dichloropropene	21.160	1.0	20.00	0	106	69	131	21.06	0.474	20	
Di-isopropyl ether	19.220	1.0	20.00	0	96.1	70	130	19.98	3.88	20	
Dibromochloromethane	18.680	1.0	20.00	0	93.4	66	133	19.83	5.97	20	
Dibromomethane	20.250	1.0	20.00	0	101	76	125	20.23	0.0988	20	
Dichlorodifluoromethane	19.250	1.0	20.00	0	96.2	53	153	20.20	4.82	20	
Ethyl tert-butyl ether	19.700	1.0	20.00	0	98.5	70	130	20.48	3.88	20	
Ethylbenzene	19.530	1.0	20.00	0	97.6	73	127	19.88	1.78	20	
Freon-113	17.040	1.0	20.00	0	85.2	75	125	17.64	3.46	20	
Hexachlorobutadiene	18.880	1.0	20.00	0	94.4	67	131	19.11	1.21	20	
Isopropylbenzene	17.290	1.0	20.00	0	86.5	75	127	17.33	0.231	20	
m,p-Xylene	39.760	1.0	40.00	0	99.4	76	128	41.03	3.14	20	
Methylene chloride	19.920	2.0	20.00	1.790	90.6	63	137	20.38	2.28	20	
MTBE	19.880	1.0	20.00	0	99.4	65	123	20.54	3.27	20	
n-Butylbenzene	21.050	1.0	20.00	0	105	69	137	20.90	0.715	20	
n-Propylbenzene	20.770	1.0	20.00	0	104	72	129	20.76	0.0482	20	
Naphthalene	23.530	1.0	20.00	0	118	54	138	22.39	4.97	20	
o-Xylene	20.590	1.0	20.00	0	103	80	121	20.89	1.45	20	
sec-Butylbenzene	21.200	1.0	20.00	0	106	72	127	20.97	1.09	20	
Styrene	19.780	1.0	20.00	0	98.9	65	134	20.20	2.10	20	
Tert-amyl methyl ether	20.200	1.0	20.00	0	101	70	130	20.62	2.06	20	
Tert-Butanol	104.700	5.0	100.0	0	105	70	130	108.6	3.64	20	
tert-Butylbenzene	21.300	1.0	20.00	0	106	70	129	21.19	0.518	20	
Tetrachloroethene	18.980	1.0	20.00	0	94.9	66	128	20.03	5.38	20	

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N025119
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
N025085-001FMSD	MSD	8260_WP_SF	ug/L		116531						
Client ID	Batch ID	TestNo									
ZZZZZZ	P17VW122	EPA 8260B									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	19.470	2.0	20.00	0	97.4	77	122	19.37	0.515	20	
trans-1,2-Dichloroethene	19.230	1.0	20.00	0	96.2	63	137	19.93	3.58	20	
trans-1,3-Dichloropropene	20.450	1.0	20.00	0	102	59	135	20.54	0.439	20	
Trichloroethene	19.740	1.0	20.00	0	98.7	70	127	20.30	2.80	20	
Trichlorofluoromethane	20.910	1.0	20.00	0	105	57	129	21.55	3.01	20	
Vinyl chloride	21.820	0.50	20.00	0	109	50	134	23.01	5.31	20	
Xylenes, Total	60.350	2.0	60.00	0	101	75	125	61.92	2.57	20	
Surr: 1,2-Dichloroethane-d4	26.700		25.00		107	72	119		0		
Surr: 4-Bromofluorobenzene	25.790		25.00		103	76	119		0		
Surr: Dibromofluoromethane	26.930		25.00		108	85	115		0		
Surr: Toluene-d8	25.540		25.00		102	81	120		0		

Qualifiers:

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

ASSET Laboratories

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


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

Cooler Received/Opened On: 7/20/2017 Workorder: N025119
 Rep sample Temp (Deg C): 3.5 IR Gun ID: ~~6026~~ 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 6026 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

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

Comments:

Checklist Completed By: YR  7/21/2017

Reviewed By:  7/27/2017

ASSET Laboratories

WORK ORDER Summary

20-Jul-17

WorkOrder: N025119

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 7/20/2017

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N025119-001A	INF-07-20	7/20/2017 1:45:00 PM	7/27/2017	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			7/27/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N025119-001B			7/27/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/27/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/27/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025119-002A	FOLDER	7/26/2017	7/27/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			7/27/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

7/20/2017



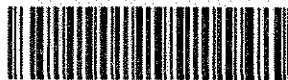
800-322-5555 www.gso.com

Ship From

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

Tracking #: 536936026

CPS



Ship To

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

LVS
LAS VEGAS

A

COD: \$0.00

Weight: 0 lb(s)

Reference:

C89102A

Delivery Instructions:

HOLD FOR PICK-UP

Signature Type: NOT REQUIRED



69755558

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

LABEL INSTRUCTIONS:

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

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

30502
JRH-2



July 25, 2017

CH2M HILL
ATTN: Eric Davis
1000 Wilshire Blvd., Suite 2100
Los Angeles, CA 90017



LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: SFPP Norwalk
Lab Number: I071401-01/04

Enclosed are results for sample(s) received 7/14/17 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Eric Davis and Vladimir Carino 7/25/17.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink that reads "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

Air Technology Laboratories, Inc.
 18501 Gale Ave. #130
 City of Industry, CA 91748
 Tel: 626-964-4032
 Joann De La Ossa (JDeLaOssa@airtechlabs.com)

CHAIN OF CUSTODY RECORD
 DATE: 7/13/17
 PAGE: 1 of 1

1071401-01/04

Section A
 Client Information:
 Company: CH2M HILL
 Attention: Eric Davis
 Address: 1000 Wilshire Blvd. Suite 2100
 Los Angeles, CA 90017
 Email To: ERIC.DAVIS@CH2M.COM
 Phone: 404-323-1600 Fax:

Section B
 Required Project Information:
 Report To: Eric Davis (eric.davis@ch2m.com)
 Copy To: Vladimir Carino (vcarino@ch2m.com)
 Purchase Order No.:
 Project Name: SFPP Norwalk

Section C
 Invoicing Information:
 Attention: Eric Davis
 Company: CH2M
 Name:
 Address: 1000 Wilshire Blvd. Suite 2100
 Los Angeles, CA 90017
 Project Manager: Joann De La Ossa

Section D
 Sampler Information:
 Sampler Name: James Dye
 Sampler Signature: [Signature]
 Sample Date: 7/13/17

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G=GRAB C=COMP)	CONTAINER TYPE # OF CONTAINERS PRESERVATIVE VOLUME (mL)	DATE	TIME	ANALYSIS TEST		COMMENTS	
								V	A		
1	VEFF-07-13	Effluent (stack)	Vapor	G	40	7/13/17	13:15	TO-15 (VOCs, Target Analytes)	X	ASTM-D 1946 (O2/Argon, CO2, CH4, H2)	Individually Certified 6-Liter SUMMA
2	VEFF-07-13-D	Effluent (stack) (duplicate)	Vapor	G	40	7/13/17	13:15	TO-15 (VOCs, Target Analytes)	X		Individually Certified 6-Liter SUMMA
3	VPOST-07-13	Influent (post-dilution)	Vapor	G	40	7/13/17	13:35	TO-15 (VOCs, Target Analytes)	X		Individually Certified 1-Liter SUMMA
4	VINF-07-13	Influent (pre-dilution)	Vapor	G	40	7/13/17	13:45	TO-15 (VOCs, Target Analytes)	X		Batch Certified 1-Liter Summa
5											Target analytes includes historical VOCs and remaining NTU list per subcontract
6											
7											
8											
9											
10											
11											
12											

Section E
 Required Sample Information:
 Turn Around Time (TAT):
 TA = Same Day
 TB = 24 Hours
 TC = 48 Hours
 TD = 72 Hours
 TE = 5 Workdays
 TF = 10 Workdays
 TAT Starts at 8 AM the following day if samples received after 3:00 PM.

Section F
 Special Instructions:
 Turn Around Time (TAT):
 TA = Same Day
 TB = 24 Hours
 TC = 48 Hours
 TD = 72 Hours
 TE = 5 Workdays
 TF = 10 Workdays
 TAT Starts at 8 AM the following day if samples received after 3:00 PM.

Section G
 Matrix:
 W = Water
 O = Oil
 WW = Wastewater
 P = Product
 S = Soil

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

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Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 07/14/17
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	I071401-01			I071401-02			I071401-03			I071401-04		
Client Sample I.D.:	VEFF-07-13			VEFF-07-13D			VPOST-07-13			VINP-07-13		
Date/Time Sampled:	7/13/17 13:10			7/13/17 13:10			7/13/17 13:20			7/13/17 13:18		
Date/Time Analyzed:	7/21/17 11:16			7/21/17 11:56			7/21/17 12:36			7/21/17 13:16		
QC Batch No.:	170721MS2A1			170721MS2A1			170721MS2A1			170721MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.2			2.2			43			44		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Dichlorodifluoromethane (12)	ND	0.0022	0.00033	ND	0.0022	0.00034	ND	0.043	0.0066	ND	0.044	0.0067
Chloromethane	ND	0.0043	0.00047	ND	0.0044	0.00048	ND	0.086	0.0095	ND	0.088	0.0097
1,2-CI-1,1,2,2-F ethane (114)	ND	0.0022	0.00043	ND	0.0022	0.00044	ND	0.043	0.0087	ND	0.044	0.0088
Vinyl Chloride	ND	0.0022	0.00035	ND	0.0022	0.00036	ND	0.043	0.0070	ND	0.044	0.0071
Bromomethane	ND	0.0022	0.00063	ND	0.0022	0.00064	ND	0.043	0.013	ND	0.044	0.013
Chloroethane	ND	0.0022	0.0018	ND	0.0022	0.0018	ND	0.043	0.036	ND	0.044	0.037
Trichlorofluoromethane (11)	ND	0.0022	0.00046	ND	0.0022	0.00047	ND	0.043	0.0093	ND	0.044	0.0095
1,1-Dichloroethene	ND	0.0022	0.00049	ND	0.0022	0.00050	ND	0.043	0.0098	ND	0.044	0.0100
Carbon Disulfide	0.22	0.011	0.00052	0.038	0.011	0.00053	0.098 J	0.22	0.010	0.048 J	0.22	0.011
1,1,2-CI 1,2,2-F ethane (113)	ND	0.0022	0.00058	ND	0.0022	0.00059	ND	0.043	0.012	ND	0.044	0.012
Acetone	0.057	0.011	0.00062	0.039	0.011	0.00063	ND	0.22	0.012	ND	0.22	0.013
Methylene Chloride	ND	0.0022	0.00061	ND	0.0022	0.00063	ND	0.043	0.012	ND	0.044	0.013
t-1,2-Dichloroethene	ND	0.0022	0.00064	ND	0.0022	0.00066	ND	0.043	0.013	ND	0.044	0.013
1,1-Dichloroethane	ND	0.0022	0.00029	ND	0.0022	0.00030	0.016 J	0.043	0.0059	0.012 J	0.044	0.0060
c-1,2-Dichloroethene	ND	0.0022	0.00042	ND	0.0022	0.00042	ND	0.043	0.0083	ND	0.044	0.0085
2-Butanone	0.025	0.0022	0.0013	0.017	0.0022	0.0014	ND	0.043	0.027	ND	0.044	0.027
t-Butyl Methyl Ether (MTBE)	0.0082	0.0022	0.00048	0.0079	0.0022	0.00049	1.7	0.043	0.0096	ND	0.044	0.0098
Chloroform	ND	0.0022	0.00030	ND	0.0022	0.00031	ND	0.043	0.0060	ND	0.044	0.0061
1,1,1-Trichloroethane	ND	0.0022	0.00022	ND	0.0022	0.00022	ND	0.043	0.0043	ND	0.044	0.0044
Carbon Tetrachloride	ND	0.0022	0.00037	ND	0.0022	0.00038	ND	0.043	0.0075	ND	0.044	0.0077
Benzene	0.050	0.0022	0.00021	0.048	0.0022	0.00021	7.1	0.043	0.0041	6.8	0.044	0.0042
1,2-Dichloroethane	ND	0.0022	0.00016	ND	0.0022	0.00016	0.022 J	0.043	0.0032	0.022 J	0.044	0.0033
Trichloroethene	ND	0.0022	0.00030	ND	0.0022	0.00031	ND	0.043	0.0061	ND	0.044	0.0062
1,2-Dichloropropane	ND	0.0022	0.00039	ND	0.0022	0.00040	ND	0.043	0.0078	ND	0.044	0.0079
Bromodichloromethane	ND	0.0022	0.00013	ND	0.0022	0.00013	ND	0.043	0.0026	ND	0.044	0.0026
c-1,3-Dichloropropene	ND	0.0022	0.00026	ND	0.0022	0.00026	ND	0.043	0.0051	ND	0.044	0.0053
4-Methyl-2-Pentanone	ND	0.0022	0.00014	ND	0.0022	0.00015	ND	0.043	0.0029	ND	0.044	0.0030
Toluene	0.046	0.0022	0.00017	0.046	0.0022	0.00017	6.7	0.043	0.0034	6.6	0.044	0.0035
t-1,3-Dichloropropene	ND	0.0022	0.00022	ND	0.0022	0.00023	ND	0.043	0.0044	ND	0.044	0.0045
1,1,2-Trichloroethane	ND	0.0022	0.00035	ND	0.0022	0.00036	ND	0.043	0.0070	ND	0.044	0.0071
1,3-Dichloropropane	ND	0.0022	0.00011	ND	0.0022	0.00011	ND	0.043	0.0021	ND	0.044	0.0022
Tetrachloroethene	ND	0.0022	0.00026	ND	0.0022	0.00026	ND	0.043	0.0052	ND	0.044	0.0053
2-Hexanone	ND	0.0022	0.00044	ND	0.0022	0.00045	ND	0.043	0.0089	ND	0.044	0.0091
Dibromochloromethane	ND	0.0022	0.00039	ND	0.0022	0.00040	ND	0.043	0.0078	ND	0.044	0.0080
1,2-Dibromoethane	ND	0.0022	0.00020	ND	0.0022	0.00020	ND	0.043	0.0039	ND	0.044	0.0040
Chlorobenzene	ND	0.0022	0.00017	ND	0.0022	0.00017	0.024 J	0.043	0.0033	0.026 J	0.044	0.0034
Ethylbenzene	0.0069	0.0022	0.00012	0.0071	0.0022	0.00013	1.0	0.043	0.0025	1.1	0.044	0.0025
p,&m-Xylene	0.049	0.0022	0.00024	0.049	0.0022	0.00025	6.5	0.043	0.0049	6.6	0.044	0.0050
o-Xylene	0.023	0.0022	0.00026	0.023	0.0022	0.00027	3.2	0.043	0.0052	3.3	0.044	0.0053



Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 07/14/17
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	I071401-01			I071401-02			I071401-03			I071401-04		
Client Sample I.D.:	VEFF-07-13			VEFF-07-13D			VPOST-07-13			VINP-07-13		
Date/Time Sampled:	7/13/17 13:10			7/13/17 13:10			7/13/17 13:20			7/13/17 13:18		
Date/Time Analyzed:	7/21/17 11:16			7/21/17 11:56			7/21/17 12:36			7/21/17 13:16		
QC Batch No.:	170721MS2A1			170721MS2A1			170721MS2A1			170721MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.2			2.2			43			44		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Styrene	0.0014 J	0.0022	0.00028	0.0010 J	0.0022	0.00028	0.11	0.043	0.0055	0.11	0.044	0.0056
Bromoform	ND	0.0022	0.00012	ND	0.0022	0.00012	ND	0.043	0.0024	ND	0.044	0.0024
Isopropyl benzene	0.00053 J	0.0022	0.00022	0.00058 J	0.0022	0.00023	0.073	0.043	0.0045	0.075	0.044	0.0046
1,1,2,2-Tetrachloroethane	ND	0.0043	0.00013	ND	0.0044	0.00013	ND	0.086	0.0026	ND	0.088	0.0027
Benzyl Chloride	ND	0.0022	0.00040	ND	0.0022	0.00040	ND	0.043	0.0079	ND	0.044	0.0081
1,2,3-Trichloropropane	ND	0.0022	0.00058	ND	0.0022	0.00059	0.016 J	0.043	0.012	ND	0.044	0.012
n-Propyl Benzene	0.0011 J	0.0022	0.00013	0.0012 J	0.0022	0.00013	0.13	0.043	0.0025	0.14	0.044	0.0026
4-Ethyl Toluene	0.014	0.0022	0.00014	0.015	0.0022	0.00014	1.7	0.043	0.0027	1.9	0.044	0.0028
1,3,5-Trimethylbenzene	0.0079	0.0043	0.00037	0.0079	0.0044	0.00038	0.95	0.086	0.0074	1.0	0.088	0.0076
4-Chlorotoluene	ND	0.0022	0.00026	ND	0.0022	0.00026	ND	0.043	0.0051	ND	0.044	0.0052
tert-Butylbenzene	ND	0.0022	0.00019	ND	0.0022	0.00020	ND	0.043	0.0039	ND	0.044	0.0040
1,2,4-Trimethylbenzene	0.0099	0.0043	0.00024	0.011	0.0044	0.00025	0.98	0.086	0.0049	1.1	0.088	0.0050
sec-Butylbenzene	ND	0.0022	0.00021	0.00029 J	0.0022	0.00021	0.021 J	0.043	0.0042	0.022 J	0.044	0.0043
p-Isopropyltoluene	0.0020 J	0.0022	0.00028	0.0011 J	0.0022	0.00029	0.025 J	0.043	0.0056	0.029 J	0.044	0.0057
1,3-Dichlorobenzene	ND	0.0022	0.00026	ND	0.0022	0.00027	ND	0.043	0.0052	ND	0.044	0.0053
1,4-Dichlorobenzene	ND	0.0022	0.00031	ND	0.0022	0.00032	ND	0.043	0.0063	ND	0.044	0.0064
n-Butylbenzene	ND	0.0022	0.00016	ND	0.0022	0.00016	ND	0.043	0.0031	ND	0.044	0.0032
1,2-Dichlorobenzene	ND	0.0022	0.00027	ND	0.0022	0.00027	ND	0.043	0.0054	ND	0.044	0.0055
1,2,4-Trichlorobenzene	ND	0.0043	0.00036	ND	0.0044	0.00036	ND	0.086	0.0071	ND	0.088	0.0073
Hexachlorobutadiene	ND	0.0022	0.00013	ND	0.0022	0.00013	ND	0.043	0.0025	ND	0.044	0.0026
t-Butanol	0.0014 J	0.011	0.00041	0.0070 J	0.011	0.00042	ND	0.22	0.0083	ND	0.22	0.0084
n-Hexane	0.11	0.011	0.00029	0.10	0.011	0.00030	20 d	0.22	0.0058	20 d	0.22	0.0059
Isopropyl ether	ND	0.011	0.00024	ND	0.011	0.00024	ND	0.22	0.0048	ND	0.22	0.0049
t-Butyl ethyl ether	ND	0.011	0.00043	ND	0.011	0.00044	ND	0.22	0.0086	ND	0.22	0.0088
2,2-Dichloropropane	ND	0.011	0.00020	ND	0.011	0.00021	ND	0.22	0.0041	ND	0.22	0.0042
t-Amyl methyl ether	ND	0.011	0.00015	ND	0.011	0.00016	ND	0.22	0.0030	ND	0.22	0.0031
1,4-Dioxane	ND	0.011	0.00038	ND	0.011	0.00038	ND	0.22	0.0075	ND	0.22	0.0077
Naphthalene	0.0026 J	0.011	0.00083	0.0024 J	0.011	0.00084	ND	0.22	0.017	ND	0.22	0.017
1,2,3-Trichlorobenzene (TIC)	ND	--	--	ND	--	--	ND	--	--	ND	--	--

MDL = Method Detection Limit
 ND = Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.
 d = Analyte reported from secondary dilution.

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 7/25/17

The cover letter is an integral part of this analytical report



Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 07/14/17
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	METHOD BLANK																	
Client Sample I.D.:	-																	
Date/Time Sampled:	-																	
Date/Time Analyzed:	7/21/17 7:48																	
QC Batch No.:	170721MS2A1																	
Analyst Initials:	DT																	
Dilution Factor:	0.20																	
ANALYTE	Result ppmv	RL ppmv	MDL ppmv															
Dichlorodifluoromethane (12)	ND	0.00020	0.000031															
Chloromethane	ND	0.00040	0.000044															
1,2-CI-1,1,2,2-F ethane (114)	ND	0.00020	0.000040															
Vinyl Chloride	ND	0.00020	0.000032															
Bromomethane	ND	0.00020	0.000059															
Chloroethane	ND	0.00020	0.00017															
Trichlorofluoromethane (11)	ND	0.00020	0.000043															
1,1-Dichloroethene	ND	0.00020	0.000045															
Carbon Disulfide	ND	0.0010	0.000048															
1,1,2-CI 1,2,2-F ethane (113)	ND	0.00020	0.000054															
Acetone	0.00014	J 0.0010	0.000058															
Methylene Chloride	ND	0.00020	0.000057															
t-1,2-Dichloroethene	ND	0.00020	0.000060															
1,1-Dichloroethane	ND	0.00020	0.000027															
c-1,2-Dichloroethene	ND	0.00020	0.000039															
2-Butanone	ND	0.00020	0.00012															
t-Butyl Methyl Ether (MTBE)	ND	0.00020	0.000045															
Chloroform	ND	0.00020	0.000028															
1,1,1-Trichloroethane	ND	0.00020	0.000020															
Carbon Tetrachloride	ND	0.00020	0.000035															
Benzene	0.00011	J 0.00020	0.000019															
1,2-Dichloroethane	ND	0.00020	0.000015															
Trichloroethene	ND	0.00020	0.000028															
1,2-Dichloropropane	ND	0.00020	0.000036															
Bromodichloromethane	ND	0.00020	0.000012															
c-1,3-Dichloropropene	ND	0.00020	0.000024															
4-Methyl-2-Pentanone	ND	0.00020	0.000013															
Toluene	0.000023	J 0.00020	0.000016															
t-1,3-Dichloropropene	ND	0.00020	0.000021															
1,1,2-Trichloroethane	ND	0.00020	0.000032															
1,3-Dichloropropane	ND	0.00020	0.000099															
Tetrachloroethene	ND	0.00020	0.000024															
2-Hexanone	ND	0.00020	0.000041															
Dibromochloromethane	ND	0.00020	0.000036															
1,2-Dibromoethane	ND	0.00020	0.000018															
Chlorobenzene	ND	0.00020	0.000016															
Ethylbenzene	ND	0.00020	0.000011															
p,&m-Xylene	ND	0.00020	0.000023															
o-Xylene	ND	0.00020	0.000024															



LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 170721MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date/Time Analyzed:	7/21/17 7:48		7/21/17 4:45		7/21/17 5:27						
Data File ID:	21JUL009.D		21JUL005.D		21JUL006.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/Fail
1,1-Dichloroethene	0.0	10.0	11.0	110	11.0	110	0.0	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.7	107	11.0	110	3.1	70	130	30	Pass
Trichloroethene	0.0	10.0	10.3	103	10.2	102	0.1	70	130	30	Pass
Toluene	0.0	10.0	9.8	98	9.9	99	1.1	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.7	97	9.7	97	0.2	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 7/25/17

The cover letter is an integral part of this analytical report



Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 07/14/17
 Matrix: Air
 Reporting Units: ppmv

EPA METHOD TO3

Lab No.:	I071401-01	I071401-02	I071401-03	I071401-04								
Client Sample I.D.:	VEFF-07-13	VEFF-07-13D	VPOST-07-13	VINF-07-13								
Date/Time Sampled:	7/13/17 13:10	7/13/17 13:10	7/13/17 13:20	7/13/17 13:18								
Date/Time Analyzed:	7/17/17 11:16	7/17/17 11:39	7/17/17 14:41	7/17/17 15:04								
QC Batch No.:	170717GC11A1	170717GC11A1	170717GC11A1	170717GC11A1								
Analyst Initials:	AS	AS	AS	AS								
Dilution Factor:	2.2	2.2	6.5	6.6								
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
TVOC as Hexane	2.5	2.2	0.38	2.6	2.2	0.39	580	6.5	1.1	550	6.6	1.2

MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 7/20/17

The cover letter is an integral part of this analytical report

Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 07/14/17
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	I071401-04												
Client Sample I.D.:	VINP-07-13												
Date/Time Sampled:	7/13/17 13:18												
Date/Time Analyzed:	7/17/17 11:48												
QC Batch No.:	170717GC8A1												
Analyst Initials:	AS												
Dilution Factor:	2.2												
ANALYTE	Result % v/v	RL % v/v	MDL % v/v										
Carbon Dioxide	1.3	0.022	0.00093										
Oxygen/Argon	20	1.1	0.081										
Nitrogen	78	2.2	0.32										
Methane	0.055	0.0022	0.00010										

Results normalized including non-methane hydrocarbons

MDL = Method Detection Limit

ND= Not Detected (below MDL)

RL = Reporting Limit

J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 7/20/17

The cover letter is an integral part of this analytical report



September 15, 2017

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

TEL:

FAX:

Workorder No.: N025325

RE: SFPP Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on August 03, 2017 by ASSET Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an amended report. Please disregard all previous documentation that corresponds to the page(s) enclosed.

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

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

Sincerely,



Puri Romualdo

Laboratory Director

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ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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ORELAP/NELAP Cert 4046

CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N025325

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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

Analytical Comments for EPA 8015B_GRO:

Surrogate recovery for sample N025325-003 biased high possibly due to matrix interference. Sample result was non-detect (ND) for analyte of interest therefore reanalysis of the sample was not necessary.



ASSET Laboratories

Date: 15-Sep-17

CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N025325
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N025325-001A	INF-08-03	Wastewater	8/3/2017 1:00:00 PM	8/3/2017	8/8/2017
N025325-001B	INF-08-03	Wastewater	8/3/2017 1:00:00 PM	8/3/2017	8/8/2017
N025325-002A	POST_OWS-08-03	Wastewater	8/3/2017 12:50:00 PM	8/3/2017	8/8/2017
N025325-002B	POST_OWS-08-03	Wastewater	8/3/2017 12:50:00 PM	8/3/2017	8/8/2017
N025325-003A	MP1-08-03	Wastewater	8/3/2017 12:40:00 PM	8/3/2017	8/8/2017
N025325-003B	MP1-08-03	Wastewater	8/3/2017 12:40:00 PM	8/3/2017	8/8/2017
N025325-004A	INF_FBRR-08-03	Wastewater	8/3/2017 12:30:00 PM	8/3/2017	8/8/2017
N025325-004B	INF_FBRR-08-03	Wastewater	8/3/2017 12:30:00 PM	8/3/2017	8/8/2017
N025325-005A	EFF_FBRR1-08-03	Wastewater	8/3/2017 11:15:00 AM	8/3/2017	8/8/2017
N025325-005B	EFF_FBRR1-08-03	Wastewater	8/3/2017 11:15:00 AM	8/3/2017	8/8/2017
N025325-006A	EFF_FBRR2-08-03	Wastewater	8/3/2017 11:10:00 AM	8/3/2017	8/8/2017
N025325-006B	EFF_FBRR2-08-03	Wastewater	8/3/2017 11:10:00 AM	8/3/2017	8/8/2017
N025325-007A	EFF_POL1-08-03	Wastewater	8/3/2017 11:00:00 AM	8/3/2017	8/8/2017
N025325-007B	EFF_POL1-08-03	Wastewater	8/3/2017 11:00:00 AM	8/3/2017	8/8/2017
N025325-008A	S2A-08-03	Wastewater	8/3/2017 11:20:00 AM	8/3/2017	8/8/2017
N025325-009A	S2B-08-03	Wastewater	8/3/2017 11:20:00 AM	8/3/2017	8/8/2017



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ANALYTICAL RESULTS

Print Date: 15-Sep-17

CLIENT: CH2MHill
Lab Order: N025325
Project: SFPP Norwalk
Lab ID: N025325-001

Client Sample ID: INF-08-03
Collection Date: 8/3/2017 1:00:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 8260B							
RunID: NV00922-MS5_170804A	QC Batch: P17VW131		PrepDate:			Analyst: RB	
1,1,1,2-Tetrachloroethane	ND	0.089	1.0		ug/L	1	8/4/2017 07:52 PM
1,1,1-Trichloroethane	ND	0.15	1.0		ug/L	1	8/4/2017 07:52 PM
1,1,2,2-Tetrachloroethane	ND	0.14	1.0		ug/L	1	8/4/2017 07:52 PM
1,1,2-Trichloroethane	ND	0.15	1.0		ug/L	1	8/4/2017 07:52 PM
1,1-Dichloroethane	ND	0.13	0.50		ug/L	1	8/4/2017 07:52 PM
1,1-Dichloroethene	ND	0.15	1.0		ug/L	1	8/4/2017 07:52 PM
1,1-Dichloropropene	ND	0.12	1.0		ug/L	1	8/4/2017 07:52 PM
1,2,3-Trichlorobenzene	ND	0.16	1.0		ug/L	1	8/4/2017 07:52 PM
1,2,3-Trichloropropane	ND	0.097	1.0		ug/L	1	8/4/2017 07:52 PM
1,2,4-Trichlorobenzene	ND	0.13	1.0		ug/L	1	8/4/2017 07:52 PM
1,2,4-Trimethylbenzene	0.21	0.094	1.0	J	ug/L	1	8/4/2017 07:52 PM
1,2-Dibromo-3-chloropropane	ND	0.36	2.0		ug/L	1	8/4/2017 07:52 PM
1,2-Dibromoethane	ND	0.18	1.0		ug/L	1	8/4/2017 07:52 PM
1,2-Dichlorobenzene	ND	0.14	1.0		ug/L	1	8/4/2017 07:52 PM
1,2-Dichloroethane	ND	0.13	0.50		ug/L	1	8/4/2017 07:52 PM
1,2-Dichloropropane	ND	0.14	1.0		ug/L	1	8/4/2017 07:52 PM
1,3,5-Trimethylbenzene	0.17	0.11	1.0	J	ug/L	1	8/4/2017 07:52 PM
1,3-Dichlorobenzene	ND	0.11	1.0		ug/L	1	8/4/2017 07:52 PM
1,3-Dichloropropane	ND	0.13	1.0		ug/L	1	8/4/2017 07:52 PM
1,4-Dichlorobenzene	ND	0.13	1.0		ug/L	1	8/4/2017 07:52 PM
2,2-Dichloropropane	ND	0.16	1.0		ug/L	1	8/4/2017 07:52 PM
2-Butanone	ND	1.9	10		ug/L	1	8/4/2017 07:52 PM
2-Chlorotoluene	ND	0.14	1.0		ug/L	1	8/4/2017 07:52 PM
4-Chlorotoluene	ND	0.14	1.0		ug/L	1	8/4/2017 07:52 PM
4-Isopropyltoluene	ND	0.13	1.0		ug/L	1	8/4/2017 07:52 PM
4-Methyl-2-pentanone	ND	1.4	10		ug/L	1	8/4/2017 07:52 PM
Acetone	6.9	4.3	10	J	ug/L	1	8/4/2017 07:52 PM
Benzene	ND	0.14	1.0		ug/L	1	8/4/2017 07:52 PM
Bromobenzene	ND	0.13	1.0		ug/L	1	8/4/2017 07:52 PM
Bromochloromethane	ND	0.15	1.0		ug/L	1	8/4/2017 07:52 PM
Bromodichloromethane	ND	0.10	1.0		ug/L	1	8/4/2017 07:52 PM
Bromoform	ND	0.34	1.0		ug/L	1	8/4/2017 07:52 PM
Bromomethane	ND	0.12	1.0		ug/L	1	8/4/2017 07:52 PM
Carbon disulfide	ND	0.14	1.0		ug/L	1	8/4/2017 07:52 PM
Carbon tetrachloride	ND	0.13	0.50		ug/L	1	8/4/2017 07:52 PM
Chlorobenzene	ND	0.13	1.0		ug/L	1	8/4/2017 07:52 PM

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



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ANALYTICAL RESULTS

Print Date: 15-Sep-17

CLIENT: CH2MHill
Lab Order: N025325
Project: SFPP Norwalk
Lab ID: N025325-001

Client Sample ID: INF-08-03
Collection Date: 8/3/2017 1:00:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID: NV00922-MS5_170804A	QC Batch: P17VW131	PrepDate:			Analyst: RB	
Chloroethane	ND	0.19	1.0	ug/L	1	8/4/2017 07:52 PM
Chloroform	ND	0.18	1.0	ug/L	1	8/4/2017 07:52 PM
Chloromethane	0.46	0.22	1.0	J ug/L	1	8/4/2017 07:52 PM
cis-1,2-Dichloroethene	ND	0.20	1.0	ug/L	1	8/4/2017 07:52 PM
cis-1,3-Dichloropropene	ND	0.14	1.0	ug/L	1	8/4/2017 07:52 PM
Di-isopropyl ether	4.2	0.18	1.0	ug/L	1	8/4/2017 07:52 PM
Dibromochloromethane	ND	0.12	1.0	ug/L	1	8/4/2017 07:52 PM
Dibromomethane	ND	0.12	1.0	ug/L	1	8/4/2017 07:52 PM
Dichlorodifluoromethane	ND	0.17	1.0	ug/L	1	8/4/2017 07:52 PM
Ethyl tert-butyl ether	ND	0.15	1.0	ug/L	1	8/4/2017 07:52 PM
Ethylbenzene	ND	0.14	1.0	ug/L	1	8/4/2017 07:52 PM
Freon-113	ND	0.19	1.0	ug/L	1	8/4/2017 07:52 PM
Hexachlorobutadiene	ND	0.15	1.0	ug/L	1	8/4/2017 07:52 PM
Isopropylbenzene	ND	0.11	1.0	ug/L	1	8/4/2017 07:52 PM
m,p-Xylene	ND	0.23	1.0	ug/L	1	8/4/2017 07:52 PM
Methylene chloride	1.2	0.26	2.0	J ug/L	1	8/4/2017 07:52 PM
MTBE	1.3	0.13	1.0	ug/L	1	8/4/2017 07:52 PM
n-Butylbenzene	ND	0.15	1.0	ug/L	1	8/4/2017 07:52 PM
n-Propylbenzene	ND	0.16	1.0	ug/L	1	8/4/2017 07:52 PM
Naphthalene	0.18	0.094	1.0	J ug/L	1	8/4/2017 07:52 PM
o-Xylene	0.23	0.13	1.0	J ug/L	1	8/4/2017 07:52 PM
sec-Butylbenzene	ND	0.12	1.0	ug/L	1	8/4/2017 07:52 PM
Styrene	ND	0.14	1.0	ug/L	1	8/4/2017 07:52 PM
Tert-amyl methyl ether	ND	0.12	1.0	ug/L	1	8/4/2017 07:52 PM
Tert-Butanol	25	1.8	5.0	ug/L	1	8/4/2017 07:52 PM
tert-Butylbenzene	ND	0.11	1.0	ug/L	1	8/4/2017 07:52 PM
Tetrachloroethene	ND	0.13	1.0	ug/L	1	8/4/2017 07:52 PM
Toluene	ND	0.14	2.0	ug/L	1	8/4/2017 07:52 PM
trans-1,2-Dichloroethene	ND	0.20	1.0	ug/L	1	8/4/2017 07:52 PM
trans-1,3-Dichloropropene	ND	0.13	1.0	ug/L	1	8/4/2017 07:52 PM
Trichloroethene	ND	0.14	1.0	ug/L	1	8/4/2017 07:52 PM
Trichlorofluoromethane	ND	0.13	1.0	ug/L	1	8/4/2017 07:52 PM
Vinyl chloride	ND	0.15	0.50	ug/L	1	8/4/2017 07:52 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	8/4/2017 07:52 PM
Surr: 1,2-Dichloroethane-d4	117	0	72-119	%REC	1	8/4/2017 07:52 PM
Surr: 4-Bromofluorobenzene	107	0	76-119	%REC	1	8/4/2017 07:52 PM

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



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ANALYTICAL RESULTS

Print Date: 15-Sep-17

CLIENT: CH2MHill
Lab Order: N025325
Project: SFPP Norwalk
Lab ID: N025325-001

Client Sample ID: INF-08-03
Collection Date: 8/3/2017 1:00:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID: NV00922-MS5_170804A	QC Batch: P17VW131					PrepDate:	Analyst: RB
Surr: Dibromofluoromethane	115	0	85-115		%REC	1	8/4/2017 07:52 PM
Surr: Toluene-d8	108	0	81-120		%REC	1	8/4/2017 07:52 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: NV00922-GC3_170804A	QC Batch: 63205					PrepDate: 8/4/2017	Analyst: QCE
TPH-Diesel (C13-C22)	410	15	25		ug/L	1	8/4/2017 04:16 PM
TPH-Oil (C23-C36)	310	14	25		ug/L	1	8/4/2017 04:16 PM
Surr: Octacosane	98.1	0	26-152		%REC	1	8/4/2017 04:16 PM
Surr: p-Terphenyl	90.8	0	57-132		%REC	1	8/4/2017 04:16 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: NV00922-GC4_170804A	QC Batch: E17VW073					PrepDate:	Analyst: RB
TPH-Gasoline (C4-C12)	39	16	50		J ug/L	1	8/4/2017 05:53 PM
Surr: Chlorobenzene - d5	131	0	74-138		%REC	1	8/4/2017 05:53 PM

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_170804A	QC Batch: R116905					PrepDate:	Analyst: QCE
Total TPH	760	16	100		ug/L	1	8/4/2017

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



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ANALYTICAL RESULTS

Print Date: 15-Sep-17

CLIENT: CH2MHill
Lab Order: N025325
Project: SFPP Norwalk
Lab ID: N025325-002

Client Sample ID: POST_OWS-08-03
Collection Date: 8/3/2017 12:50:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID:	NV00922-MS5_170804A	QC Batch:	P17VW131	PrepDate:	Analyst:	RB
1,1-Dichloroethane	ND	0.13	0.50	ug/L	1	8/4/2017 07:30 PM
1,2-Dichloroethane	ND	0.13	0.50	ug/L	1	8/4/2017 07:30 PM
Benzene	ND	0.14	1.0	ug/L	1	8/4/2017 07:30 PM
Ethylbenzene	ND	0.14	1.0	ug/L	1	8/4/2017 07:30 PM
m,p-Xylene	ND	0.23	1.0	ug/L	1	8/4/2017 07:30 PM
MTBE	0.76	0.13	1.0	J ug/L	1	8/4/2017 07:30 PM
o-Xylene	ND	0.13	1.0	ug/L	1	8/4/2017 07:30 PM
Tert-Butanol	8.1	1.8	5.0	ug/L	1	8/4/2017 07:30 PM
Toluene	ND	0.14	2.0	ug/L	1	8/4/2017 07:30 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	8/4/2017 07:30 PM
Surr: 1,2-Dichloroethane-d4	107	0	72-119	%REC	1	8/4/2017 07:30 PM
Surr: 4-Bromofluorobenzene	103	0	76-119	%REC	1	8/4/2017 07:30 PM
Surr: Dibromofluoromethane	106	0	85-115	%REC	1	8/4/2017 07:30 PM
Surr: Toluene-d8	103	0	81-120	%REC	1	8/4/2017 07:30 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID:	NV00922-GC3_170804A	QC Batch:	63205	PrepDate:	8/4/2017	Analyst:	QCE
TPH-Diesel (C13-C22)	340	16	25	ug/L	1	8/4/2017 07:47 PM	
TPH-Oil (C23-C36)	280	14	25	ug/L	1	8/4/2017 07:47 PM	
Surr: Octacosane	94.4	0	26-152	%REC	1	8/4/2017 07:47 PM	
Surr: p-Terphenyl	88.1	0	57-132	%REC	1	8/4/2017 07:47 PM	

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID:	NV00922-GC4_170804A	QC Batch:	E17VW073	PrepDate:	Analyst:	RB
TPH-Gasoline (C4-C12)	ND	16	50	ug/L	1	8/4/2017 05:21 PM
Surr: Chlorobenzene - d5	137	0	74-138	%REC	1	8/4/2017 05:21 PM

TOTAL TPH

EPA 8015B

RunID:	NV00922-GC3_170804A	QC Batch:	R116905	PrepDate:	Analyst:	QCE
Total TPH	620	16	100	ug/L	1	8/4/2017

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



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ANALYTICAL RESULTS

Print Date: 15-Sep-17

CLIENT: CH2MHill
Lab Order: N025325
Project: SFPP Norwalk
Lab ID: N025325-003

Client Sample ID: MP1-08-03
Collection Date: 8/3/2017 12:40:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID:	NV00922-MS5_170804A	QC Batch:	P17VW131	PrepDate:	Analyst:	RB
1,1-Dichloroethane	ND	0.13	0.50	ug/L	1	8/4/2017 06:45 PM
1,2-Dichloroethane	ND	0.13	0.50	ug/L	1	8/4/2017 06:45 PM
Benzene	1.3	0.14	1.0	ug/L	1	8/4/2017 06:45 PM
Ethylbenzene	ND	0.14	1.0	ug/L	1	8/4/2017 06:45 PM
m,p-Xylene	ND	0.23	1.0	ug/L	1	8/4/2017 06:45 PM
MTBE	14	0.13	1.0	ug/L	1	8/4/2017 06:45 PM
o-Xylene	ND	0.13	1.0	ug/L	1	8/4/2017 06:45 PM
Tert-Butanol	ND	1.8	5.0	ug/L	1	8/4/2017 06:45 PM
Toluene	ND	0.14	2.0	ug/L	1	8/4/2017 06:45 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	8/4/2017 06:45 PM
Surr: 1,2-Dichloroethane-d4	110	0	72-119	%REC	1	8/4/2017 06:45 PM
Surr: 4-Bromofluorobenzene	105	0	76-119	%REC	1	8/4/2017 06:45 PM
Surr: Dibromofluoromethane	105	0	85-115	%REC	1	8/4/2017 06:45 PM
Surr: Toluene-d8	105	0	81-120	%REC	1	8/4/2017 06:45 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID:	NV00922-GC3_170804A	QC Batch:	63205	PrepDate:	8/4/2017	Analyst:	QCE
TPH-Diesel (C13-C22)	52	16	27	ug/L	1	8/4/2017 08:13 PM	
TPH-Oil (C23-C36)	64	14	27	ug/L	1	8/4/2017 08:13 PM	
Surr: Octacosane	92.6	0	26-152	%REC	1	8/4/2017 08:13 PM	
Surr: p-Terphenyl	88.7	0	57-132	%REC	1	8/4/2017 08:13 PM	

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID:	NV00922-GC4_170804A	QC Batch:	E17VW073	PrepDate:	Analyst:	RB
TPH-Gasoline (C4-C12)	ND	16	50	ug/L	1	8/4/2017 04:49 PM
Surr: Chlorobenzene - d5	141	0	74-138	S %REC	1	8/4/2017 04:49 PM

TOTAL TPH

EPA 8015B

RunID:	NV00922-GC3_170804A	QC Batch:	R116905	PrepDate:	Analyst:	QCE
Total TPH	120	16	100	ug/L	1	8/4/2017

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



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ANALYTICAL RESULTS

Print Date: 15-Sep-17

CLIENT: CH2MHill
Lab Order: N025325
Project: SFPP Norwalk
Lab ID: N025325-004

Client Sample ID: INF_FBBR-08-03
Collection Date: 8/3/2017 12:30:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID: NV00922-MS5_170804A	QC Batch: P17VW131	PrepDate:	Analyst: RB
1,1-Dichloroethane	ND 0.13	0.50	ug/L 1 8/4/2017 07:08 PM
1,2-Dichloroethane	ND 0.13	0.50	ug/L 1 8/4/2017 07:08 PM
Benzene	ND 0.14	1.0	ug/L 1 8/4/2017 07:08 PM
Ethylbenzene	ND 0.14	1.0	ug/L 1 8/4/2017 07:08 PM
m,p-Xylene	ND 0.23	1.0	ug/L 1 8/4/2017 07:08 PM
MTBE	18 0.13	1.0	ug/L 1 8/4/2017 07:08 PM
o-Xylene	ND 0.13	1.0	ug/L 1 8/4/2017 07:08 PM
Tert-Butanol	ND 1.8	5.0	ug/L 1 8/4/2017 07:08 PM
Toluene	ND 0.14	2.0	ug/L 1 8/4/2017 07:08 PM
Xylenes, Total	ND 1.5	2.0	ug/L 1 8/4/2017 07:08 PM
Surr: 1,2-Dichloroethane-d4	114 0	72-119	%REC 1 8/4/2017 07:08 PM
Surr: 4-Bromofluorobenzene	105 0	76-119	%REC 1 8/4/2017 07:08 PM
Surr: Dibromofluoromethane	112 0	85-115	%REC 1 8/4/2017 07:08 PM
Surr: Toluene-d8	106 0	81-120	%REC 1 8/4/2017 07:08 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: NV00922-GC3_170804A	QC Batch: 63205	PrepDate: 8/4/2017	Analyst: QCE
TPH-Diesel (C13-C22)	18 16	26	J ug/L 1 8/4/2017 08:39 PM
TPH-Oil (C23-C36)	34 14	26	ug/L 1 8/4/2017 08:39 PM
Surr: Octacosane	95.0 0	26-152	%REC 1 8/4/2017 08:39 PM
Surr: p-Terphenyl	92.7 0	57-132	%REC 1 8/4/2017 08:39 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: NV00922-GC4_170804A	QC Batch: E17VW073	PrepDate:	Analyst: RB
TPH-Gasoline (C4-C12)	25 16	50	J ug/L 1 8/4/2017 04:17 PM
Surr: Chlorobenzene - d5	134 0	74-138	%REC 1 8/4/2017 04:17 PM

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_170804A	QC Batch: R116905	PrepDate:	Analyst: QCE
Total TPH	77 16	100	J ug/L 1 8/4/2017

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



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ANALYTICAL RESULTS

Print Date: 15-Sep-17

CLIENT: CH2MHill
Lab Order: N025325
Project: SFPP Norwalk
Lab ID: N025325-005

Client Sample ID: EFF_FBBR1-08-03
Collection Date: 8/3/2017 11:15:00 AM
Matrix: WASTEWATER

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

EPA 8260B

RunID: NV00922-MS5_170804A	QC Batch: P17VW131	PrepDate:			Analyst: RB
1,1-Dichloroethane	ND	0.13	0.50	ug/L	1 8/4/2017 04:32 PM
1,2-Dichloroethane	ND	0.13	0.50	ug/L	1 8/4/2017 04:32 PM
Benzene	ND	0.14	1.0	ug/L	1 8/4/2017 04:32 PM
Ethylbenzene	ND	0.14	1.0	ug/L	1 8/4/2017 04:32 PM
m,p-Xylene	ND	0.23	1.0	ug/L	1 8/4/2017 04:32 PM
MTBE	ND	0.13	1.0	ug/L	1 8/4/2017 04:32 PM
o-Xylene	ND	0.13	1.0	ug/L	1 8/4/2017 04:32 PM
Tert-Butanol	ND	1.8	5.0	ug/L	1 8/4/2017 04:32 PM
Toluene	ND	0.14	2.0	ug/L	1 8/4/2017 04:32 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1 8/4/2017 04:32 PM
Surr: 1,2-Dichloroethane-d4	105	0	72-119	%REC	1 8/4/2017 04:32 PM
Surr: 4-Bromofluorobenzene	105	0	76-119	%REC	1 8/4/2017 04:32 PM
Surr: Dibromofluoromethane	106	0	85-115	%REC	1 8/4/2017 04:32 PM
Surr: Toluene-d8	105	0	81-120	%REC	1 8/4/2017 04:32 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: NV00922-GC3_170804A	QC Batch: 63205	PrepDate: 8/4/2017			Analyst: QCE
TPH-Diesel (C13-C22)	ND	15	25	ug/L	1 8/4/2017 09:06 PM
TPH-Oil (C23-C36)	33	14	25	ug/L	1 8/4/2017 09:06 PM
Surr: Octacosane	91.7	0	26-152	%REC	1 8/4/2017 09:06 PM
Surr: p-Terphenyl	88.4	0	57-132	%REC	1 8/4/2017 09:06 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

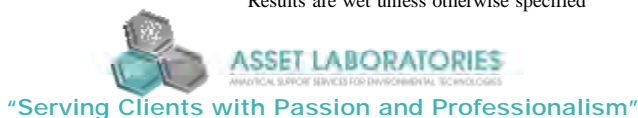
RunID: NV00922-GC4_170804A	QC Batch: E17VW073	PrepDate:			Analyst: RB
TPH-Gasoline (C4-C12)	21	16	50	J ug/L	1 8/4/2017 11:40 AM
Surr: Chlorobenzene - d5	119	0	74-138	%REC	1 8/4/2017 11:40 AM

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_170804A	QC Batch: R116905	PrepDate:			Analyst: QCE
Total TPH	54	16	100	J ug/L	1 8/4/2017

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



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ANALYTICAL RESULTS

Print Date: 15-Sep-17

CLIENT: CH2MHill
Lab Order: N025325
Project: SFPP Norwalk
Lab ID: N025325-006

Client Sample ID: EFF_FBBR2-08-03
Collection Date: 8/3/2017 11:10:00 AM
Matrix: WASTEWATER

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

EPA 8260B

RunID:	NV00922-MS5_170804A	QC Batch:	P17VW131	PrepDate:	Analyst:	RB
1,1-Dichloroethane	ND	0.13	0.50	ug/L	1	8/4/2017 04:54 PM
1,2-Dichloroethane	ND	0.13	0.50	ug/L	1	8/4/2017 04:54 PM
Benzene	ND	0.14	1.0	ug/L	1	8/4/2017 04:54 PM
Ethylbenzene	ND	0.14	1.0	ug/L	1	8/4/2017 04:54 PM
m,p-Xylene	ND	0.23	1.0	ug/L	1	8/4/2017 04:54 PM
MTBE	ND	0.13	1.0	ug/L	1	8/4/2017 04:54 PM
o-Xylene	ND	0.13	1.0	ug/L	1	8/4/2017 04:54 PM
Tert-Butanol	ND	1.8	5.0	ug/L	1	8/4/2017 04:54 PM
Toluene	ND	0.14	2.0	ug/L	1	8/4/2017 04:54 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	8/4/2017 04:54 PM
Surr: 1,2-Dichloroethane-d4	103	0	72-119	%REC	1	8/4/2017 04:54 PM
Surr: 4-Bromofluorobenzene	97.2	0	76-119	%REC	1	8/4/2017 04:54 PM
Surr: Dibromofluoromethane	103	0	85-115	%REC	1	8/4/2017 04:54 PM
Surr: Toluene-d8	98.7	0	81-120	%REC	1	8/4/2017 04:54 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID:	NV00922-GC3_170804A	QC Batch:	63205	PrepDate:	8/4/2017	Analyst:	QCE
TPH-Diesel (C13-C22)	ND	16	26	ug/L	1	8/4/2017 09:32 PM	
TPH-Oil (C23-C36)	32	14	26	ug/L	1	8/4/2017 09:32 PM	
Surr: Octacosane	94.6	0	26-152	%REC	1	8/4/2017 09:32 PM	
Surr: p-Terphenyl	92.1	0	57-132	%REC	1	8/4/2017 09:32 PM	

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID:	NV00922-GC4_170804A	QC Batch:	E17VW073	PrepDate:	Analyst:	RB
TPH-Gasoline (C4-C12)	ND	16	50	ug/L	1	8/4/2017 12:12 PM
Surr: Chlorobenzene - d5	116	0	74-138	%REC	1	8/4/2017 12:12 PM

TOTAL TPH

EPA 8015B

RunID:	NV00922-GC3_170804A	QC Batch:	R116905	PrepDate:	Analyst:	QCE
Total TPH	32	16	100	J ug/L	1	8/4/2017

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



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ANALYTICAL RESULTS

Print Date: 15-Sep-17

CLIENT: CH2MHill
Lab Order: N025325
Project: SFPP Norwalk
Lab ID: N025325-007

Client Sample ID: EFF_POL1-08-03
Collection Date: 8/3/2017 11:00:00 AM
Matrix: WASTEWATER

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

EPA 8260B

RunID: NV00922-MS5_170804A	QC Batch: P17VW131	PrepDate:			Analyst: RB
1,1-Dichloroethane	ND	0.13	0.50	ug/L	1 8/4/2017 05:16 PM
1,2-Dichloroethane	ND	0.13	0.50	ug/L	1 8/4/2017 05:16 PM
Benzene	ND	0.14	1.0	ug/L	1 8/4/2017 05:16 PM
Ethylbenzene	ND	0.14	1.0	ug/L	1 8/4/2017 05:16 PM
m,p-Xylene	ND	0.23	1.0	ug/L	1 8/4/2017 05:16 PM
MTBE	ND	0.13	1.0	ug/L	1 8/4/2017 05:16 PM
o-Xylene	ND	0.13	1.0	ug/L	1 8/4/2017 05:16 PM
Tert-Butanol	ND	1.8	5.0	ug/L	1 8/4/2017 05:16 PM
Toluene	ND	0.14	2.0	ug/L	1 8/4/2017 05:16 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1 8/4/2017 05:16 PM
Surr: 1,2-Dichloroethane-d4	108	0	72-119	%REC	1 8/4/2017 05:16 PM
Surr: 4-Bromofluorobenzene	106	0	76-119	%REC	1 8/4/2017 05:16 PM
Surr: Dibromofluoromethane	105	0	85-115	%REC	1 8/4/2017 05:16 PM
Surr: Toluene-d8	103	0	81-120	%REC	1 8/4/2017 05:16 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: NV00922-GC3_170804A	QC Batch: 63205	PrepDate: 8/4/2017			Analyst: QCE
TPH-Diesel (C13-C22)	ND	16	27	ug/L	1 8/4/2017 09:58 PM
TPH-Oil (C23-C36)	31	14	27	ug/L	1 8/4/2017 09:58 PM
Surr: Octacosane	97.3	0	26-152	%REC	1 8/4/2017 09:58 PM
Surr: p-Terphenyl	94.0	0	57-132	%REC	1 8/4/2017 09:58 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

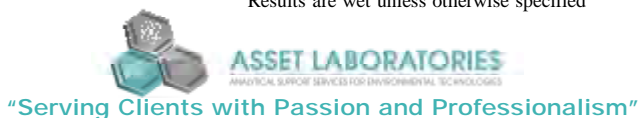
RunID: NV00922-GC4_170804A	QC Batch: E17VW073	PrepDate:			Analyst: RB
TPH-Gasoline (C4-C12)	ND	16	50	ug/L	1 8/4/2017 12:45 PM
Surr: Chlorobenzene - d5	112	0	74-138	%REC	1 8/4/2017 12:45 PM

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_170804A	QC Batch: R116905	PrepDate:			Analyst: QCE
Total TPH	31	16	100	J ug/L	1 8/4/2017

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



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ANALYTICAL RESULTS

Print Date: 15-Sep-17

CLIENT: CH2MHill
Lab Order: N025325
Project: SFPP Norwalk
Lab ID: N025325-008

Client Sample ID: S2A-08-03
Collection Date: 8/3/2017 11:20:00 AM
Matrix: WASTEWATER

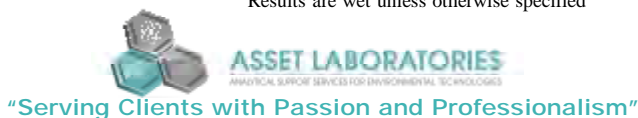
Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: NV00922-MS5_170804A	QC Batch: P17VW131				PrepDate:	Analyst: RB
1,1-Dichloroethane	ND	0.13	0.50	ug/L	1	8/4/2017 08:15 PM
1,2-Dichloroethane	ND	0.13	0.50	ug/L	1	8/4/2017 08:15 PM
Benzene	ND	0.14	1.0	ug/L	1	8/4/2017 08:15 PM
Ethylbenzene	ND	0.14	1.0	ug/L	1	8/4/2017 08:15 PM
m,p-Xylene	ND	0.23	1.0	ug/L	1	8/4/2017 08:15 PM
MTBE	150	0.13	1.0	ug/L	1	8/4/2017 08:15 PM
MTBE	170	0.64	5.0	ug/L	5	8/6/2017 07:45 PM
o-Xylene	ND	0.13	1.0	ug/L	1	8/4/2017 08:15 PM
Tert-Butanol	ND	1.8	5.0	ug/L	1	8/4/2017 08:15 PM
Toluene	ND	0.14	2.0	ug/L	1	8/4/2017 08:15 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	8/4/2017 08:15 PM
Surr: 1,2-Dichloroethane-d4	109	0	72-119	%REC	5	8/6/2017 07:45 PM
Surr: 1,2-Dichloroethane-d4	110	0	72-119	%REC	1	8/4/2017 08:15 PM
Surr: 4-Bromofluorobenzene	104	0	76-119	%REC	5	8/6/2017 07:45 PM
Surr: 4-Bromofluorobenzene	105	0	76-119	%REC	1	8/4/2017 08:15 PM
Surr: Dibromofluoromethane	105	0	85-115	%REC	1	8/4/2017 08:15 PM
Surr: Dibromofluoromethane	110	0	85-115	%REC	5	8/6/2017 07:45 PM
Surr: Toluene-d8	103	0	81-120	%REC	5	8/6/2017 07:45 PM
Surr: Toluene-d8	105	0	81-120	%REC	1	8/4/2017 08:15 PM

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



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ANALYTICAL RESULTS

Print Date: 15-Sep-17

CLIENT: CH2MHill
Lab Order: N025325
Project: SFPP Norwalk
Lab ID: N025325-009

Client Sample ID: S2B-08-03
Collection Date: 8/3/2017 11:20:00 AM
Matrix: WASTEWATER

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

EPA 8260B

RunID: NV00922-MS5_170804A	QC Batch: P17VW131				PrepDate:	Analyst: RB
1,1-Dichloroethane	ND	0.13	0.50	ug/L	1	8/4/2017 08:37 PM
1,2-Dichloroethane	ND	0.13	0.50	ug/L	1	8/4/2017 08:37 PM
Benzene	ND	0.14	1.0	ug/L	1	8/4/2017 08:37 PM
Ethylbenzene	ND	0.14	1.0	ug/L	1	8/4/2017 08:37 PM
m,p-Xylene	ND	0.23	1.0	ug/L	1	8/4/2017 08:37 PM
MTBE	77	0.13	1.0	ug/L	1	8/4/2017 08:37 PM
o-Xylene	ND	0.13	1.0	ug/L	1	8/4/2017 08:37 PM
Tert-Butanol	ND	1.8	5.0	ug/L	1	8/4/2017 08:37 PM
Toluene	ND	0.14	2.0	ug/L	1	8/4/2017 08:37 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	8/4/2017 08:37 PM
Surr: 1,2-Dichloroethane-d4	112	0	72-119	%REC	1	8/4/2017 08:37 PM
Surr: 4-Bromofluorobenzene	105	0	76-119	%REC	1	8/4/2017 08:37 PM
Surr: Dibromofluoromethane	108	0	85-115	%REC	1	8/4/2017 08:37 PM
Surr: Toluene-d8	104	0	81-120	%REC	1	8/4/2017 08:37 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



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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-63205	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 8/4/2017	RunNo: 116905						
Client ID: PBW	Batch ID: 63205	TestNo: EPA 8015B EPA 3510C		Analysis Date: 8/4/2017	SeqNo: 2722999						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	18.371	25									J
Surr: Octacosane	64.784		80.00		81.0	26	152				
Surr: p-Terphenyl	60.599		80.00		75.7	57	132				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPTOT

Sample ID: MB-R116905	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date:	RunNo: 116905						
Client ID: PBW	Batch ID: R116905	TestNo: EPA 8015B		Analysis Date: 8/4/2017	SeqNo: 2723591						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	18.371	100									J

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: E170804LCS	SampType: LCS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 116884						
Client ID: LCSW	Batch ID: E17VW073	TestNo: EPA 8015B	Analysis Date: 8/4/2017	SeqNo: 2721714							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	826.000	50	1000	0	82.6	67	136				
Surr: Chlorobenzene - d5	48412.000		50000		96.8	74	138				

Sample ID: E170804MB1	SampType: MBLK	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 116884						
Client ID: PBW	Batch ID: E17VW073	TestNo: EPA 8015B	Analysis Date: 8/4/2017	SeqNo: 2721715							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	50									
Surr: Chlorobenzene - d5	56114.000		50000		112	74	138				

Sample ID: N025325-007AMS	SampType: MS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 116884						
Client ID: ZZZZZ	Batch ID: E17VW073	TestNo: EPA 8015B	Analysis Date: 8/4/2017	SeqNo: 2721719							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	791.000	50	1000	0	79.1	67	136				
Surr: Chlorobenzene - d5	47152.000		50000		94.3	74	138				

Sample ID: N025325-007AMSD	SampType: MSD	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 116884						
Client ID: ZZZZZ	Batch ID: E17VW073	TestNo: EPA 8015B	Analysis Date: 8/4/2017	SeqNo: 2721720							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	799.000	50	1000	0	79.9	67	136	791.0	1.01	30	
Surr: Chlorobenzene - d5	49428.000		50000		98.9	74	138		0	0	

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170804LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116887						
Client ID: LCSW	Batch ID: P17VW131	TestNo: EPA 8260B		Analysis Date: 8/4/2017	SeqNo: 2721767						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	18.670	1.0	20.00	0	93.4	81	129				
1,1,1-Trichloroethane	19.490	1.0	20.00	0	97.5	67	132				
1,1,2,2-Tetrachloroethane	19.240	1.0	20.00	0	96.2	63	128				
1,1,2-Trichloroethane	18.770	1.0	20.00	0	93.8	75	125				
1,1-Dichloroethane	19.370	0.50	20.00	0	96.9	69	133				
1,1-Dichloroethene	17.360	1.0	20.00	0	86.8	68	130				
1,1-Dichloropropene	20.240	1.0	20.00	0	101	73	132				
1,2,3-Trichlorobenzene	19.550	1.0	20.00	0	97.8	67	137				
1,2,3-Trichloropropane	18.820	1.0	20.00	0	94.1	73	124				
1,2,4-Trichlorobenzene	19.950	1.0	20.00	0	99.8	66	134				
1,2,4-Trimethylbenzene	20.800	1.0	20.00	0	104	74	132				
1,2-Dibromo-3-chloropropane	17.960	2.0	20.00	0	89.8	50	132				
1,2-Dibromoethane	18.130	1.0	20.00	0	90.7	80	121				
1,2-Dichlorobenzene	19.240	1.0	20.00	0	96.2	71	122				
1,2-Dichloroethane	18.900	0.50	20.00	0	94.5	69	132				
1,2-Dichloropropane	19.690	1.0	20.00	0	98.4	75	125				
1,3,5-Trimethylbenzene	20.920	1.0	20.00	0	105	74	131				
1,3-Dichlorobenzene	19.300	1.0	20.00	0	96.5	75	124				
1,3-Dichloropropane	20.390	1.0	20.00	0	102	73	126				
1,4-Dichlorobenzene	18.770	1.0	20.00	0	93.8	74	123				
2,2-Dichloropropane	19.960	1.0	20.00	0	99.8	69	137				
2-Butanone	181.350	10	200.0	0	90.7	49	136				
2-Chlorotoluene	20.820	1.0	20.00	0	104	73	126				
4-Chlorotoluene	20.910	1.0	20.00	0	105	74	128				
4-Isopropyltoluene	19.050	1.0	20.00	0	95.2	73	130				
4-Methyl-2-pentanone	192.850	10	200.0	0	96.4	58	134				
Acetone	171.110	10	200.0	0	85.6	40	135				
Benzene	19.020	1.0	20.00	0	95.1	81	122				
Bromobenzene	18.970	1.0	20.00	0	94.8	76	124				
Bromochloromethane	18.890	1.0	20.00	0	94.4	65	129				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170804LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116887						
Client ID: LCSW	Batch ID: P17VW131	TestNo: EPA 8260B		Analysis Date: 8/4/2017	SeqNo: 2721767						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	18.860	1.0	20.00	0	94.3	76	121				
Bromoform	15.900	1.0	20.00	0	79.5	69	128				
Bromomethane	17.570	1.0	20.00	0	87.9	53	141				
Carbon disulfide	15.510	1.0	20.00	0	77.6	75	125				
Carbon tetrachloride	18.340	0.50	20.00	0	91.7	66	138				
Chlorobenzene	19.240	1.0	20.00	0	96.2	81	122				
Chloroethane	18.800	1.0	20.00	0	94.0	58	133				
Chloroform	17.840	1.0	20.00	0	89.2	69	128				
Chloromethane	19.930	1.0	20.00	0	99.7	56	131				
cis-1,2-Dichloroethene	19.140	1.0	20.00	0	95.7	72	126				
cis-1,3-Dichloropropene	20.480	1.0	20.00	0	102	69	131				
Di-isopropyl ether	19.890	1.0	20.00	0	99.4	70	130				
Dibromochloromethane	17.550	1.0	20.00	0	87.8	66	133				
Dibromomethane	18.510	1.0	20.00	0	92.6	76	125				
Dichlorodifluoromethane	18.810	1.0	20.00	0	94.1	53	153				
Ethyl tert-butyl ether	19.010	1.0	20.00	0	95.1	70	130				
Ethylbenzene	19.330	1.0	20.00	0	96.7	73	127				
Freon-113	15.410	1.0	20.00	0	77.0	75	125				
Hexachlorobutadiene	19.870	1.0	20.00	0	99.4	67	131				
Isopropylbenzene	17.660	1.0	20.00	0	88.3	75	127				
m,p-Xylene	39.340	1.0	40.00	0	98.4	76	128				
Methylene chloride	18.530	2.0	20.00	0	92.6	63	137				
MTBE	18.380	1.0	20.00	0	91.9	65	123				
n-Butylbenzene	20.860	1.0	20.00	0	104	69	137				
n-Propylbenzene	21.130	1.0	20.00	0	106	72	129				
Naphthalene	20.020	1.0	20.00	0	100	54	138				
o-Xylene	20.240	1.0	20.00	0	101	80	121				
sec-Butylbenzene	21.020	1.0	20.00	0	105	72	127				
Styrene	19.700	1.0	20.00	0	98.5	65	134				
Tert-amyl methyl ether	18.340	1.0	20.00	0	91.7	70	130				

Qualifiers:

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|--|--|--|
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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170804LCS		SampType: LCS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 116887			
Client ID: LCSW		Batch ID: P17VW131		TestNo: EPA 8260B		Analysis Date: 8/4/2017		SeqNo: 2721767			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	85.850	5.0	100.0	0	85.8	70	130				
tert-Butylbenzene	21.310	1.0	20.00	0	107	70	129				
Tetrachloroethene	18.750	1.0	20.00	0	93.8	66	128				
Toluene	18.540	2.0	20.00	0	92.7	77	122				
trans-1,2-Dichloroethene	19.320	1.0	20.00	0	96.6	63	137				
trans-1,3-Dichloropropene	19.060	1.0	20.00	0	95.3	59	135				
Trichloroethene	19.020	1.0	20.00	0	95.1	70	127				
Trichlorofluoromethane	17.480	1.0	20.00	0	87.4	57	129				
Vinyl chloride	19.020	0.50	20.00	0	95.1	50	134				
Xylenes, Total	59.580	2.0	60.00	0	99.3	75	125				
Surr: 1,2-Dichloroethane-d4	25.980		25.00		104	72	119				
Surr: 4-Bromofluorobenzene	26.940		25.00		108	76	119				
Surr: Dibromofluoromethane	26.430		25.00		106	85	115				
Surr: Toluene-d8	25.440		25.00		102	81	120				

Sample ID: P170804MB3		SampType: MBLK		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 116887			
Client ID: PBW		Batch ID: P17VW131		TestNo: EPA 8260B		Analysis Date: 8/4/2017		SeqNo: 2721770			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
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									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									

Qualifiers:

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Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170804MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116887						
Client ID: PBW	Batch ID: P17VW131	TestNo: EPA 8260B		Analysis Date: 8/4/2017	SeqNo: 2721770						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	5.040	10									J
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	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-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									

Qualifiers:

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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170804MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116887						
Client ID: PBW	Batch ID: P17VW131	TestNo: EPA 8260B		Analysis Date: 8/4/2017	SeqNo: 2721770						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	0.950	2.0									J
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	0.230	1.0									J
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
tert-Butylbenzene	ND	1.0									
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									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	0.50									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	26.410		25.00		106	72	119				

Qualifiers:

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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170804MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116887						
Client ID: PBW	Batch ID: P17VW131	TestNo: EPA 8260B		Analysis Date: 8/4/2017	SeqNo: 2721770						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	25.970		25.00		104	76	119				
Surr: Dibromofluoromethane	25.930		25.00		104	85	115				
Surr: Toluene-d8	26.010		25.00		104	81	120				

Sample ID: N025325-006AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116887						
Client ID: ZZZZZ	Batch ID: P17VW131	TestNo: EPA 8260B		Analysis Date: 8/4/2017	SeqNo: 2721774						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.130	1.0	20.00	0	101	81	129				
1,1,1-Trichloroethane	21.320	1.0	20.00	0	107	67	132				
1,1,2,2-Tetrachloroethane	22.260	1.0	20.00	0	111	63	128				
1,1,2-Trichloroethane	20.710	1.0	20.00	0	104	75	125				
1,1-Dichloroethane	18.330	0.50	20.00	0	91.7	69	133				
1,1-Dichloroethene	19.110	1.0	20.00	0	95.6	68	130				
1,1-Dichloropropene	22.370	1.0	20.00	0	112	73	132				
1,2,3-Trichlorobenzene	21.800	1.0	20.00	0	109	67	137				
1,2,3-Trichloropropane	21.160	1.0	20.00	0	106	73	124				
1,2,4-Trichlorobenzene	21.580	1.0	20.00	0	108	66	134				
1,2,4-Trimethylbenzene	22.040	1.0	20.00	0	110	74	132				
1,2-Dibromo-3-chloropropane	20.100	2.0	20.00	0	101	50	132				
1,2-Dibromoethane	20.660	1.0	20.00	0	103	80	121				
1,2-Dichlorobenzene	20.860	1.0	20.00	0	104	71	122				
1,2-Dichloroethane	20.890	0.50	20.00	0	104	69	132				
1,2-Dichloropropane	21.370	1.0	20.00	0	107	75	125				
1,3,5-Trimethylbenzene	22.250	1.0	20.00	0	111	74	131				
1,3-Dichlorobenzene	20.400	1.0	20.00	0	102	75	124				
1,3-Dichloropropane	22.390	1.0	20.00	0	112	73	126				
1,4-Dichlorobenzene	20.120	1.0	20.00	0	101	74	123				
2,2-Dichloropropane	21.470	1.0	20.00	0	107	69	137				
2-Butanone	217.090	10	200.0	0	109	49	136				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N025325-006AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116887						
Client ID: ZZZZZ	Batch ID: P17VW131	TestNo: EPA 8260B		Analysis Date: 8/4/2017	SeqNo: 2721774						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorotoluene	22.060	1.0	20.00	0	110	73	126				
4-Chlorotoluene	22.230	1.0	20.00	0	111	74	128				
4-Isopropyltoluene	20.330	1.0	20.00	0	102	73	130				
4-Methyl-2-pentanone	236.320	10	200.0	0	118	58	134				
Acetone	183.730	10	200.0	5.810	89.0	40	135				
Benzene	20.950	1.0	20.00	0	105	81	122				
Bromobenzene	20.110	1.0	20.00	0	101	76	124				
Bromochloromethane	20.140	1.0	20.00	0	101	65	129				
Bromodichloromethane	20.770	1.0	20.00	0	104	76	121				
Bromoform	17.510	1.0	20.00	0	87.6	69	128				
Bromomethane	20.640	1.0	20.00	0	103	53	141				
Carbon disulfide	17.680	1.0	20.00	0	88.4	75	125				
Carbon tetrachloride	20.160	0.50	20.00	0	101	66	138				
Chlorobenzene	20.470	1.0	20.00	0	102	81	122				
Chloroethane	20.280	1.0	20.00	0	101	58	133				
Chloroform	19.630	1.0	20.00	0	98.2	69	128				
Chloromethane	23.090	1.0	20.00	0.5300	113	56	131				
cis-1,2-Dichloroethene	20.710	1.0	20.00	0	104	72	126				
cis-1,3-Dichloropropene	22.270	1.0	20.00	0	111	69	131				
Di-isopropyl ether	19.150	1.0	20.00	0	95.8	70	130				
Dibromochloromethane	18.830	1.0	20.00	0	94.2	66	133				
Dibromomethane	20.510	1.0	20.00	0	103	76	125				
Dichlorodifluoromethane	21.460	1.0	20.00	0	107	53	153				
Ethyl tert-butyl ether	21.650	1.0	20.00	0	108	70	130				
Ethylbenzene	20.820	1.0	20.00	0	104	73	127				
Freon-113	17.850	1.0	20.00	0	89.2	75	125				
Hexachlorobutadiene	20.630	1.0	20.00	0	103	67	131				
Isopropylbenzene	18.770	1.0	20.00	0	93.8	75	127				
m,p-Xylene	42.960	1.0	40.00	0	107	76	128				
Methylene chloride	18.360	2.0	20.00	0.6800	88.4	63	137				

Qualifiers:

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



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 ORELAP/NELAP Cert 4046

CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N025325-006AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116887
Client ID: ZZZZZ	Batch ID: P17VW131	TestNo: EPA 8260B		Analysis Date: 8/4/2017	SeqNo: 2721774

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	18.620	1.0	20.00	0	93.1	65	123				
n-Butylbenzene	22.890	1.0	20.00	0	114	69	137				
n-Propylbenzene	23.030	1.0	20.00	0	115	72	129				
Naphthalene	21.740	1.0	20.00	0.1300	108	54	138				
o-Xylene	22.060	1.0	20.00	0	110	80	121				
sec-Butylbenzene	22.480	1.0	20.00	0	112	72	127				
Styrene	20.120	1.0	20.00	0	101	65	134				
Tert-amyl methyl ether	20.840	1.0	20.00	0	104	70	130				
Tert-Butanol	87.800	5.0	100.0	0	87.8	70	130				
tert-Butylbenzene	22.870	1.0	20.00	0	114	70	129				
Tetrachloroethene	20.410	1.0	20.00	0	102	66	128				
Toluene	20.160	2.0	20.00	0	101	77	122				
trans-1,2-Dichloroethene	18.380	1.0	20.00	0	91.9	63	137				
trans-1,3-Dichloropropene	21.140	1.0	20.00	0	106	59	135				
Trichloroethene	20.960	1.0	20.00	0	105	70	127				
Trichlorofluoromethane	20.480	1.0	20.00	0	102	57	129				
Vinyl chloride	20.900	0.50	20.00	0	104	50	134				
Xylenes, Total	65.020	2.0	60.00	0	108	75	125				
Surr: 1,2-Dichloroethane-d4	27.770		25.00		111	72	119				
Surr: 4-Bromofluorobenzene	26.850		25.00		107	76	119				
Surr: Dibromofluoromethane	27.030		25.00		108	85	115				
Surr: Toluene-d8	25.660		25.00		103	81	120				

Sample ID: N025325-006AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116887
Client ID: ZZZZZ	Batch ID: P17VW131	TestNo: EPA 8260B		Analysis Date: 8/4/2017	SeqNo: 2721775

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.390	1.0	20.00	0	102	81	129	20.13	1.28	20	
1,1,1-Trichloroethane	20.660	1.0	20.00	0	103	67	132	21.32	3.14	20	
1,1,2,2-Tetrachloroethane	21.630	1.0	20.00	0	108	63	128	22.26	2.87	20	

Qualifiers:

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



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 ORELAP/NELAP Cert 4046

CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N025325-006AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116887						
Client ID: ZZZZZ	Batch ID: P17VW131	TestNo: EPA 8260B		Analysis Date: 8/4/2017	SeqNo: 2721775						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	20.640	1.0	20.00	0	103	75	125	20.71	0.339	20	
1,1-Dichloroethane	21.070	0.50	20.00	0	105	69	133	18.33	13.9	20	
1,1-Dichloroethene	17.550	1.0	20.00	0	87.8	68	130	19.11	8.51	20	
1,1-Dichloropropene	21.390	1.0	20.00	0	107	73	132	22.37	4.48	20	
1,2,3-Trichlorobenzene	20.440	1.0	20.00	0	102	67	137	21.80	6.44	20	
1,2,3-Trichloropropane	20.470	1.0	20.00	0	102	73	124	21.16	3.31	20	
1,2,4-Trichlorobenzene	20.460	1.0	20.00	0	102	66	134	21.58	5.33	20	
1,2,4-Trimethylbenzene	21.380	1.0	20.00	0	107	74	132	22.04	3.04	20	
1,2-Dibromo-3-chloropropane	19.170	2.0	20.00	0	95.9	50	132	20.10	4.74	20	
1,2-Dibromoethane	19.700	1.0	20.00	0	98.5	80	121	20.66	4.76	20	
1,2-Dichlorobenzene	20.520	1.0	20.00	0	103	71	122	20.86	1.64	20	
1,2-Dichloroethane	20.970	0.50	20.00	0	105	69	132	20.89	0.382	20	
1,2-Dichloropropane	20.910	1.0	20.00	0	105	75	125	21.37	2.18	20	
1,3,5-Trimethylbenzene	21.310	1.0	20.00	0	107	74	131	22.25	4.32	20	
1,3-Dichlorobenzene	20.200	1.0	20.00	0	101	75	124	20.40	0.985	20	
1,3-Dichloropropane	22.220	1.0	20.00	0	111	73	126	22.39	0.762	20	
1,4-Dichlorobenzene	19.760	1.0	20.00	0	98.8	74	123	20.12	1.81	20	
2,2-Dichloropropane	20.630	1.0	20.00	0	103	69	137	21.47	3.99	20	
2-Butanone	208.550	10	200.0	0	104	49	136	217.1	4.01	20	
2-Chlorotoluene	21.630	1.0	20.00	0	108	73	126	22.06	1.97	20	
4-Chlorotoluene	22.020	1.0	20.00	0	110	74	128	22.23	0.949	20	
4-Isopropyltoluene	19.150	1.0	20.00	0	95.8	73	130	20.33	5.98	20	
4-Methyl-2-pentanone	222.600	10	200.0	0	111	58	134	236.3	5.98	20	
Acetone	201.280	10	200.0	5.810	97.7	40	135	183.7	9.12	20	
Benzene	20.640	1.0	20.00	0	103	81	122	20.95	1.49	20	
Bromobenzene	19.880	1.0	20.00	0	99.4	76	124	20.11	1.15	20	
Bromochloromethane	20.100	1.0	20.00	0	101	65	129	20.14	0.199	20	
Bromodichloromethane	20.290	1.0	20.00	0	101	76	121	20.77	2.34	20	
Bromoform	17.240	1.0	20.00	0	86.2	69	128	17.51	1.55	20	
Bromomethane	19.180	1.0	20.00	0	95.9	53	141	20.64	7.33	20	

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N025325-006AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116887						
Client ID: ZZZZZ	Batch ID: P17VW131	TestNo: EPA 8260B		Analysis Date: 8/4/2017	SeqNo: 2721775						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	16.030	1.0	20.00	0	80.2	75	125	17.68	9.79	20	
Carbon tetrachloride	18.920	0.50	20.00	0	94.6	66	138	20.16	6.35	20	
Chlorobenzene	20.620	1.0	20.00	0	103	81	122	20.47	0.730	20	
Chloroethane	19.440	1.0	20.00	0	97.2	58	133	20.28	4.23	20	
Chloroform	18.980	1.0	20.00	0	94.9	69	128	19.63	3.37	20	
Chloromethane	22.430	1.0	20.00	0.5300	110	56	131	23.09	2.90	20	
cis-1,2-Dichloroethene	20.500	1.0	20.00	0	103	72	126	20.71	1.02	20	
cis-1,3-Dichloropropene	22.180	1.0	20.00	0	111	69	131	22.27	0.405	20	
Di-isopropyl ether	22.430	1.0	20.00	0	112	70	130	19.15	15.8	20	
Dibromochloromethane	19.450	1.0	20.00	0	97.3	66	133	18.83	3.24	20	
Dibromomethane	20.120	1.0	20.00	0	101	76	125	20.51	1.92	20	
Dichlorodifluoromethane	19.320	1.0	20.00	0	96.6	53	153	21.46	10.5	20	
Ethyl tert-butyl ether	21.320	1.0	20.00	0	107	70	130	21.65	1.54	20	
Ethylbenzene	20.670	1.0	20.00	0	103	73	127	20.82	0.723	20	
Freon-113	16.040	1.0	20.00	0	80.2	75	125	17.85	10.7	20	
Hexachlorobutadiene	18.800	1.0	20.00	0	94.0	67	131	20.63	9.28	20	
Isopropylbenzene	18.060	1.0	20.00	0	90.3	75	127	18.77	3.86	20	
m,p-Xylene	41.700	1.0	40.00	0	104	76	128	42.96	2.98	20	
Methylene chloride	20.560	2.0	20.00	0.6800	99.4	63	137	18.36	11.3	20	
MTBE	20.370	1.0	20.00	0	102	65	123	18.62	8.98	20	
n-Butylbenzene	21.140	1.0	20.00	0	106	69	137	22.89	7.95	20	
n-Propylbenzene	22.210	1.0	20.00	0	111	72	129	23.03	3.63	20	
Naphthalene	20.720	1.0	20.00	0.1300	103	54	138	21.74	4.80	20	
o-Xylene	21.570	1.0	20.00	0	108	80	121	22.06	2.25	20	
sec-Butylbenzene	21.490	1.0	20.00	0	107	72	127	22.48	4.50	20	
Styrene	20.550	1.0	20.00	0	103	65	134	20.12	2.11	20	
Tert-amyl methyl ether	20.640	1.0	20.00	0	103	70	130	20.84	0.964	20	
Tert-Butanol	97.690	5.0	100.0	0	97.7	70	130	87.80	10.7	20	
tert-Butylbenzene	21.890	1.0	20.00	0	109	70	129	22.87	4.38	20	
Tetrachloroethene	19.890	1.0	20.00	0	99.4	66	128	20.41	2.58	20	

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N025325-006AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116887						
Client ID: ZZZZZ	Batch ID: P17VW131	TestNo: EPA 8260B		Analysis Date: 8/4/2017	SeqNo: 2721775						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	19.650	2.0	20.00	0	98.2	77	122	20.16	2.56	20	
trans-1,2-Dichloroethene	20.260	1.0	20.00	0	101	63	137	18.38	9.73	20	
trans-1,3-Dichloropropene	20.200	1.0	20.00	0	101	59	135	21.14	4.55	20	
Trichloroethene	20.000	1.0	20.00	0	100	70	127	20.96	4.69	20	
Trichlorofluoromethane	18.540	1.0	20.00	0	92.7	57	129	20.48	9.94	20	
Vinyl chloride	19.910	0.50	20.00	0	99.6	50	134	20.90	4.85	20	
Xylenes, Total	63.270	2.0	60.00	0	105	75	125	65.02	2.73	20	
Surr: 1,2-Dichloroethane-d4	27.770		25.00		111	72	119		0		
Surr: 4-Bromofluorobenzene	26.940		25.00		108	76	119		0		
Surr: Dibromofluoromethane	27.110		25.00		108	85	115		0		
Surr: Toluene-d8	26.070		25.00		104	81	120		0		

Qualifiers:

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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170806LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116895						
Client ID: LCSW	Batch ID: P17VW132	TestNo: EPA 8260B		Analysis Date: 8/6/2017	SeqNo: 2722162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.280	1.0	20.00	0	96.4	81	129				
1,1,1-Trichloroethane	21.150	1.0	20.00	0	106	67	132				
1,1,2,2-Tetrachloroethane	20.380	1.0	20.00	0	102	63	128				
1,1,2-Trichloroethane	19.150	1.0	20.00	0	95.8	75	125				
1,1-Dichloroethane	20.720	0.50	20.00	0	104	69	133				
1,1-Dichloroethene	17.530	1.0	20.00	0	87.6	68	130				
1,1-Dichloropropene	21.590	1.0	20.00	0	108	73	132				
1,2,3-Trichlorobenzene	19.810	1.0	20.00	0	99.0	67	137				
1,2,3-Trichloropropane	19.270	1.0	20.00	0	96.4	73	124				
1,2,4-Trichlorobenzene	19.670	1.0	20.00	0	98.4	66	134				
1,2,4-Trimethylbenzene	21.440	1.0	20.00	0	107	74	132				
1,2-Dibromo-3-chloropropane	18.190	2.0	20.00	0	91.0	50	132				
1,2-Dibromoethane	18.770	1.0	20.00	0	93.8	80	121				
1,2-Dichlorobenzene	19.660	1.0	20.00	0	98.3	71	122				
1,2-Dichloroethane	19.300	0.50	20.00	0	96.5	69	132				
1,2-Dichloropropane	20.400	1.0	20.00	0	102	75	125				
1,3,5-Trimethylbenzene	21.630	1.0	20.00	0	108	74	131				
1,3-Dichlorobenzene	19.380	1.0	20.00	0	96.9	75	124				
1,3-Dichloropropane	20.720	1.0	20.00	0	104	73	126				
1,4-Dichlorobenzene	18.880	1.0	20.00	0	94.4	74	123				
2,2-Dichloropropane	21.330	1.0	20.00	0	107	69	137				
2-Butanone	214.840	10	200.0	0	107	49	136				
2-Chlorotoluene	21.620	1.0	20.00	0	108	73	126				
4-Chlorotoluene	21.310	1.0	20.00	0	107	74	128				
4-Isopropyltoluene	19.800	1.0	20.00	0	99.0	73	130				
4-Methyl-2-pentanone	209.850	10	200.0	0	105	58	134				
Acetone	235.020	10	200.0	0	118	40	135				
Benzene	19.910	1.0	20.00	0	99.6	81	122				
Bromobenzene	18.890	1.0	20.00	0	94.4	76	124				
Bromochloromethane	19.420	1.0	20.00	0	97.1	65	129				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170806LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116895						
Client ID: LCSW	Batch ID: P17VW132	TestNo: EPA 8260B		Analysis Date: 8/6/2017	SeqNo: 2722162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	19.460	1.0	20.00	0	97.3	76	121				
Bromoform	16.880	1.0	20.00	0	84.4	69	128				
Bromomethane	17.870	1.0	20.00	0	89.4	53	141				
Carbon disulfide	16.020	1.0	20.00	0	80.1	75	125				
Carbon tetrachloride	20.040	0.50	20.00	0	100	66	138				
Chlorobenzene	19.730	1.0	20.00	0	98.6	81	122				
Chloroethane	18.840	1.0	20.00	0	94.2	58	133				
Chloroform	18.670	1.0	20.00	0	93.4	69	128				
Chloromethane	22.400	1.0	20.00	0	112	56	131				
cis-1,2-Dichloroethene	19.610	1.0	20.00	0	98.0	72	126				
cis-1,3-Dichloropropene	21.310	1.0	20.00	0	107	69	131				
Di-isopropyl ether	21.810	1.0	20.00	0	109	70	130				
Dibromochloromethane	18.510	1.0	20.00	0	92.6	66	133				
Dibromomethane	18.890	1.0	20.00	0	94.4	76	125				
Dichlorodifluoromethane	20.620	1.0	20.00	0	103	53	153				
Ethyl tert-butyl ether	20.320	1.0	20.00	0	102	70	130				
Ethylbenzene	20.250	1.0	20.00	0	101	73	127				
Freon-113	16.180	1.0	20.00	0	80.9	75	125				
Hexachlorobutadiene	20.070	1.0	20.00	0	100	67	131				
Isopropylbenzene	18.460	1.0	20.00	0	92.3	75	127				
m,p-Xylene	41.160	1.0	40.00	0	103	76	128				
Methylene chloride	19.760	2.0	20.00	0	98.8	63	137				
MTBE	19.350	1.0	20.00	0	96.8	65	123				
n-Butylbenzene	22.020	1.0	20.00	0	110	69	137				
n-Propylbenzene	22.250	1.0	20.00	0	111	72	129				
Naphthalene	19.570	1.0	20.00	0	97.9	54	138				
o-Xylene	21.120	1.0	20.00	0	106	80	121				
sec-Butylbenzene	21.790	1.0	20.00	0	109	72	127				
Styrene	20.010	1.0	20.00	0	100	65	134				
Tert-amyl methyl ether	19.430	1.0	20.00	0	97.2	70	130				

Qualifiers:

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



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 ORELAP/NELAP Cert 4046

CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170806LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116895						
Client ID: LCSW	Batch ID: P17VW132	TestNo: EPA 8260B		Analysis Date: 8/6/2017	SeqNo: 2722162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	96.530	5.0	100.0	0	96.5	70	130				
tert-Butylbenzene	21.920	1.0	20.00	0	110	70	129				
Tetrachloroethene	19.580	1.0	20.00	0	97.9	66	128				
Toluene	19.130	2.0	20.00	0	95.7	77	122				
trans-1,2-Dichloroethene	20.300	1.0	20.00	0	102	63	137				
trans-1,3-Dichloropropene	19.800	1.0	20.00	0	99.0	59	135				
Trichloroethene	19.560	1.0	20.00	0	97.8	70	127				
Trichlorofluoromethane	18.990	1.0	20.00	0	95.0	57	129				
Vinyl chloride	19.590	0.50	20.00	0	98.0	50	134				
Xylenes, Total	62.280	2.0	60.00	0	104	75	125				
Surr: 1,2-Dichloroethane-d4	26.310		25.00		105	72	119				
Surr: 4-Bromofluorobenzene	26.890		25.00		108	76	119				
Surr: Dibromofluoromethane	27.210		25.00		109	85	115				
Surr: Toluene-d8	25.620		25.00		102	81	120				

Sample ID: P170806LCS D	SampType: LCS D	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116895						
Client ID: LCS02	Batch ID: P17VW132	TestNo: EPA 8260B		Analysis Date: 8/6/2017	SeqNo: 2722163						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.360	1.0	20.00	0	96.8	81	129	19.28	0.414	20	
1,1,1-Trichloroethane	21.370	1.0	20.00	0	107	67	132	21.15	1.03	20	
1,1,2,2-Tetrachloroethane	20.470	1.0	20.00	0	102	63	128	20.38	0.441	20	
1,1,2-Trichloroethane	19.770	1.0	20.00	0	98.8	75	125	19.15	3.19	20	
1,1-Dichloroethane	21.970	0.50	20.00	0	110	69	133	20.72	5.86	20	
1,1-Dichloroethene	17.880	1.0	20.00	0	89.4	68	130	17.53	1.98	20	
1,1-Dichloropropene	21.740	1.0	20.00	0	109	73	132	21.59	0.692	20	
1,2,3-Trichlorobenzene	19.920	1.0	20.00	0	99.6	67	137	19.81	0.554	20	
1,2,3-Trichloropropane	19.650	1.0	20.00	0	98.2	73	124	19.27	1.95	20	
1,2,4-Trichlorobenzene	20.130	1.0	20.00	0	101	66	134	19.67	2.31	20	
1,2,4-Trimethylbenzene	21.400	1.0	20.00	0	107	74	132	21.44	0.187	20	

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170806LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116895						
Client ID: LCSS02	Batch ID: P17VW132	TestNo: EPA 8260B		Analysis Date: 8/6/2017	SeqNo: 2722163						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	19.250	2.0	20.00	0	96.2	50	132	18.19	5.66	20	
1,2-Dibromoethane	19.370	1.0	20.00	0	96.9	80	121	18.77	3.15	20	
1,2-Dichlorobenzene	19.670	1.0	20.00	0	98.4	71	122	19.66	0.0509	20	
1,2-Dichloroethane	20.110	0.50	20.00	0	101	69	132	19.30	4.11	20	
1,2-Dichloropropane	21.360	1.0	20.00	0	107	75	125	20.40	4.60	20	
1,3,5-Trimethylbenzene	21.570	1.0	20.00	0	108	74	131	21.63	0.278	20	
1,3-Dichlorobenzene	19.820	1.0	20.00	0	99.1	75	124	19.38	2.24	20	
1,3-Dichloropropane	20.940	1.0	20.00	0	105	73	126	20.72	1.06	20	
1,4-Dichlorobenzene	19.090	1.0	20.00	0	95.4	74	123	18.88	1.11	20	
2,2-Dichloropropane	22.160	1.0	20.00	0	111	69	137	21.33	3.82	20	
2-Butanone	214.250	10	200.0	0	107	49	136	214.8	0.275	20	
2-Chlorotoluene	21.750	1.0	20.00	0	109	73	126	21.62	0.599	20	
4-Chlorotoluene	21.640	1.0	20.00	0	108	74	128	21.31	1.54	20	
4-Isopropyltoluene	20.000	1.0	20.00	0	100	73	130	19.80	1.01	20	
4-Methyl-2-pentanone	212.430	10	200.0	0	106	58	134	209.8	1.22	20	
Acetone	222.200	10	200.0	0	111	40	135	235.0	5.61	20	
Benzene	20.490	1.0	20.00	0	102	81	122	19.91	2.87	20	
Bromobenzene	19.600	1.0	20.00	0	98.0	76	124	18.89	3.69	20	
Bromochloromethane	20.010	1.0	20.00	0	100	65	129	19.42	2.99	20	
Bromodichloromethane	20.490	1.0	20.00	0	102	76	121	19.46	5.16	20	
Bromoform	16.880	1.0	20.00	0	84.4	69	128	16.88	0	20	
Bromomethane	18.770	1.0	20.00	0	93.8	53	141	17.87	4.91	20	
Carbon disulfide	16.380	1.0	20.00	0	81.9	75	125	16.02	2.22	20	
Carbon tetrachloride	20.260	0.50	20.00	0	101	66	138	20.04	1.09	20	
Chlorobenzene	19.830	1.0	20.00	0	99.2	81	122	19.73	0.506	20	
Chloroethane	19.850	1.0	20.00	0	99.2	58	133	18.84	5.22	20	
Chloroform	19.730	1.0	20.00	0	98.6	69	128	18.67	5.52	20	
Chloromethane	23.440	1.0	20.00	0	117	56	131	22.40	4.54	20	
cis-1,2-Dichloroethene	20.190	1.0	20.00	0	101	72	126	19.61	2.91	20	
cis-1,3-Dichloropropene	21.790	1.0	20.00	0	109	69	131	21.31	2.23	20	

Qualifiers:

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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170806LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116895						
Client ID: LCSS02	Batch ID: P17VW132	TestNo: EPA 8260B		Analysis Date: 8/6/2017	SeqNo: 2722163						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-isopropyl ether	23.000	1.0	20.00	0	115	70	130	21.81	5.31	20	
Dibromochloromethane	18.350	1.0	20.00	0	91.8	66	133	18.51	0.868	20	
Dibromomethane	19.170	1.0	20.00	0	95.9	76	125	18.89	1.47	20	
Dichlorodifluoromethane	20.150	1.0	20.00	0	101	53	153	20.62	2.31	20	
Ethyl tert-butyl ether	21.020	1.0	20.00	0	105	70	130	20.32	3.39	20	
Ethylbenzene	20.510	1.0	20.00	0	103	73	127	20.25	1.28	20	
Freon-113	16.070	1.0	20.00	0	80.4	75	125	16.18	0.682	20	
Hexachlorobutadiene	20.240	1.0	20.00	0	101	67	131	20.07	0.843	20	
Isopropylbenzene	18.370	1.0	20.00	0	91.9	75	127	18.46	0.489	20	
m,p-Xylene	41.400	1.0	40.00	0	104	76	128	41.16	0.581	20	
Methylene chloride	20.860	2.0	20.00	0	104	63	137	19.76	5.42	20	
MTBE	20.170	1.0	20.00	0	101	65	123	19.35	4.15	20	
n-Butylbenzene	21.970	1.0	20.00	0	110	69	137	22.02	0.227	20	
n-Propylbenzene	22.320	1.0	20.00	0	112	72	129	22.25	0.314	20	
Naphthalene	20.450	1.0	20.00	0	102	54	138	19.57	4.40	20	
o-Xylene	21.230	1.0	20.00	0	106	80	121	21.12	0.519	20	
sec-Butylbenzene	22.170	1.0	20.00	0	111	72	127	21.79	1.73	20	
Styrene	20.680	1.0	20.00	0	103	65	134	20.01	3.29	20	
Tert-amyl methyl ether	19.870	1.0	20.00	0	99.4	70	130	19.43	2.24	20	
Tert-Butanol	95.360	5.0	100.0	0	95.4	70	130	96.53	1.22	20	
tert-Butylbenzene	22.410	1.0	20.00	0	112	70	129	21.92	2.21	20	
Tetrachloroethene	19.450	1.0	20.00	0	97.3	66	128	19.58	0.666	20	
Toluene	19.960	2.0	20.00	0	99.8	77	122	19.13	4.25	20	
trans-1,2-Dichloroethene	21.380	1.0	20.00	0	107	63	137	20.30	5.18	20	
trans-1,3-Dichloropropene	20.400	1.0	20.00	0	102	59	135	19.80	2.99	20	
Trichloroethene	20.730	1.0	20.00	0	104	70	127	19.56	5.81	20	
Trichlorofluoromethane	19.230	1.0	20.00	0	96.2	57	129	18.99	1.26	20	
Vinyl chloride	19.840	0.50	20.00	0	99.2	50	134	19.59	1.27	20	
Xylenes, Total	62.630	2.0	60.00	0	104	75	125	62.28	0.560	20	
Surr: 1,2-Dichloroethane-d4	27.670		25.00		111	72	119		0		

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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CLIENT: CH2MHill
Work Order: N025325
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170806LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116895						
Client ID: LCSS02	Batch ID: P17VW132	TestNo: EPA 8260B		Analysis Date: 8/6/2017	SeqNo: 2722163						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	27.050		25.00		108	76	119		0		
Surr: Dibromofluoromethane	27.880		25.00		112	85	115		0		
Surr: Toluene-d8	26.490		25.00		106	81	120		0		

Sample ID: P170806MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116895						
Client ID: PBW	Batch ID: P17VW132	TestNo: EPA 8260B		Analysis Date: 8/6/2017	SeqNo: 2722166						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
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									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									

Qualifiers:

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CLIENT: CH2MHill
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Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170806MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116895						
Client ID: PBW	Batch ID: P17VW132	TestNo: EPA 8260B		Analysis Date: 8/6/2017	SeqNo: 2722166						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	6.080	10									J
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	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-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	1.210	2.0									J

Qualifiers:

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170806MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 116895						
Client ID: PBW	Batch ID: P17VW132	TestNo: EPA 8260B		Analysis Date: 8/6/2017	SeqNo: 2722166						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	0.220	1.0									J
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
tert-Butylbenzene	ND	1.0									
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									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	0.50									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	26.940		25.00		108	72	119				
Surr: 4-Bromofluorobenzene	25.940		25.00		104	76	119				
Surr: Dibromofluoromethane	27.470		25.00		110	85	115				
Surr: Toluene-d8	26.180		25.00		105	81	120				

Qualifiers:

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

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

Cooler Received/Opened On: 8/3/2017 Workorder: N025325
 Rep sample Temp (Deg C): 3.7 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 1043 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

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

Comments:

ASSET Laboratories

WORK ORDER Summary

07-Aug-17

WorkOrder: N025325

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 8/3/2017

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N025325-001A	INF-08-03	8/3/2017 1:00:00 PM	8/4/2017	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
			8/4/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N025325-001B			8/4/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/4/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/4/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025325-002A	POST_OWS-08-03	8/3/2017 12:50:00 PM	8/4/2017		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
			8/4/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N025325-002B			8/4/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/4/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/4/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025325-003A	MP1-08-03	8/3/2017 12:40:00 PM	8/4/2017		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
			8/4/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N025325-003B			8/4/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/4/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/4/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025325-004A	INF_FBRR-08-03	8/3/2017 12:30:00 PM	8/4/2017		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
			8/4/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N025325-004B			8/4/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

07-Aug-17

WorkOrder: N025325

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 8/3/2017

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N025325-004B	INF_FBRR-08-03	8/3/2017 12:30:00 PM	8/4/2017	Wastewater	EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/4/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025325-005A	EFF_FBRR1-08-03	8/3/2017 11:15:00 AM	8/4/2017		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
			8/4/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N025325-005B			8/4/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/4/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/4/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025325-006A	EFF_FBRR2-08-03	8/3/2017 11:10:00 AM	8/4/2017		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
			8/4/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N025325-006B			8/4/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/4/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/4/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025325-007A	EFF_POL1-08-03	8/3/2017 11:00:00 AM	8/4/2017		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
			8/4/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N025325-007B			8/4/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/4/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/4/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025325-008A	S2A-08-03	8/3/2017 11:20:00 AM	8/4/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N025325-009A	S2B-08-03		8/4/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV

ASSET Laboratories

WORK ORDER Summary

07-Aug-17

WorkOrder: N025325

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 8/3/2017

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N025325-010A	FOLDER	8/4/2017	8/4/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			8/4/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555 www.gso.com

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

Tracking #: 537111043

CPS



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

LVS
LAS VEGAS

A

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

C89102A

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



70384827

Print Date: 8/3/2017 5:49 PM

Package 1 of 2

LABEL INSTRUCTIONS:

3.70L

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

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

Marycel Mariano

From: Fernando Rivera [fernando@assetlaboratories.com]
Sent: Wednesday, September 13, 2017 11:29 AM
To: Marycel Mariano
Subject: Fwd: FW: Full VOC list for Inf-08-03 Sample
Attachments: N025325.pdf

----- Forwarded Message -----

Subject:FW: Full VOC list for Inf-08-03 Sample
Date:Wed, 13 Sep 2017 11:03:51 -0700
From:Marlon Cartin <marlon@assetlaboratories.com>
To:'Fernando Rivera' <fernando@assetlaboratories.com>

Forwarding.

Marlon Cartin

Project Manager - ASSET Laboratories

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

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

From: Carino, Vladimir/SCO [<mailto:Vladimir.Carino@CH2M.com>]
Sent: Wednesday, September 13, 2017 1:05 AM
To: Marlon B. Cartin
Subject: Full VOC list for Inf-08-03 Sample

Hi Marlon,

Can you revise the attached report to show the full VOC list for INF-08-03 sample ONLY?

Thanks.

Vladimir Carino
Environmental Engineer
D 1 714 435 6017
M 1 619 621 9406
F 1 714 424 2014

CH2M
6 Hutton Centre Dr
Suite 700
Santa Ana, CA 92707
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August 18, 2017

CH2M HILL
ATTN: Eric Davis
1000 Wilshire Blvd., Suite 2100
Los Angeles, CA 90017



LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: SFPP Norwalk
Lab Number: I080404-01/04

Enclosed are results for sample(s) received 8/04/17 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Eric Davis and Vladimir Carino 8/18/17.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink that reads "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

I 080404-01/04

Air Technology Laboratories, Inc.
18501 Gale Ave. #130
City of Industry, CA 91748
Tel: 626-964-4032
Joann De La Ossa (JoLaOssa@airtechlabs.com)

Section A Required Client Information:	Section B Required Project Information:	Section C Involved Information:	Section D Sampler Information:
Company: CH2M HILL Attention: Eric Davis Address: 1000 Wilshire Blvd, Suite 2100 Los Angeles, CA 90047 Email To: eric.davis@ch2m.com vcainfo@ch2m.com Phone: 404-323-1600 Fax:	Report To: Eric Davis (eric.davis@ch2m.com) Copy To: Vladimir Carino vcarino@ch2m.com Purchase Order No.: Project Name: SFPP Nonwalk	Attention: Eric Davis Company Name: CH2M Address: 1000 Wilshire Blvd, Suite 2100 Los Angeles, CA 90017 Project Manager: Joann De La Ossa	Sampler Name: James Dye Sampler Signature: Sample Date: 8/13/17

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G-GRAB C-COMP)	# OF CONTAINERS	CONTAINER TYPE	ANALYSIS TEST		COMMENTS
							TO-3 (Total VOCs as Hexane)	ASTM-D 1566 (Oz/Argon, CO2, CH4, N2)	
							DATE	TIME	
1	VEFF-08-03	Effluent (stack)	Vapor G	G	1		8/17/17	13:15	Individually Certified 6-Liter SUMMA
2	VEFF-08-03 D	Effluent (stack) (duplicate)	Vapor G	G	1		8/17/17	13:15	Individually Certified 6-Liter SUMMA
3	VPOST-08-03	Influent (post-dilution)	Vapor G	G	1		8/17/17	14:20	Individually Certified 1-Liter SUMMA
4	VINF-08-03	Influent (pre-dilution)	Vapor G	G	1		8/17/17	14:30	Batch Certified 1-Liter Summa
5									Target analytes includes historical VOCs and remaining ATU list per subcontract
6									
7									
8									
9									
10									
11									
12									

Section E Required Sample Information:	Section F Required Project Information:	Section G Required Client Information:	Section H Required Project Information:
Item #	DATE / TIME	DATE / TIME	DATE / TIME
1	8/13/17 15:30	8/13/17 15:30	8/13/17 15:30
2	8/13/17 15:30	8/13/17 15:30	8/13/17 15:30
3	8/13/17 15:30	8/13/17 15:30	8/13/17 15:30
4	8/13/17 15:30	8/13/17 15:30	8/13/17 15:30
5	8/13/17 15:30	8/13/17 15:30	8/13/17 15:30
6	8/13/17 15:30	8/13/17 15:30	8/13/17 15:30
7	8/13/17 15:30	8/13/17 15:30	8/13/17 15:30
8	8/13/17 15:30	8/13/17 15:30	8/13/17 15:30
9	8/13/17 15:30	8/13/17 15:30	8/13/17 15:30
10	8/13/17 15:30	8/13/17 15:30	8/13/17 15:30
11	8/13/17 15:30	8/13/17 15:30	8/13/17 15:30
12	8/13/17 15:30	8/13/17 15:30	8/13/17 15:30

Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 08/04/17
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	1080404-01			1080404-02			1080404-03			1080404-04		
Client Sample I.D.:	VEFF-08-03			VEFF-08-03D			VPOST-08-03			VINP-08-03		
Date/Time Sampled:	8/3/17 13:15			8/3/17 13:15			8/3/17 14:20			8/3/17 14:30		
Date/Time Analyzed:	8/14/17 14:53			8/14/17 14:13			8/14/17 16:54			8/14/17 16:13		
QC Batch No.:	170814MS2A1			170814MS2A1			170814MS2A1			170814MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.2			2.2			110			110		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Dichlorodifluoromethane (12)	ND	0.0022	0.00034	ND	0.0022	0.00034	ND	0.11	0.017	ND	0.11	0.017
Chloromethane	0.0017 J	0.0044	0.00048	0.013	0.0044	0.00048	ND	0.22	0.024	ND	0.22	0.024
1,2-CI-1,1,2,2-F ethane (114)	ND	0.0022	0.00044	ND	0.0022	0.00044	ND	0.11	0.022	ND	0.11	0.022
Vinyl Chloride	ND	0.0022	0.00036	ND	0.0022	0.00036	ND	0.11	0.018	ND	0.11	0.018
Bromomethane	ND	0.0022	0.00064	0.0013 J	0.0022	0.00064	ND	0.11	0.032	ND	0.11	0.032
Chloroethane	ND	0.0022	0.0018	ND	0.0022	0.0018	ND	0.11	0.092	ND	0.11	0.092
Trichlorofluoromethane (11)	ND	0.0022	0.00047	ND	0.0022	0.00047	ND	0.11	0.024	ND	0.11	0.024
1,1-Dichloroethene	ND	0.0022	0.00050	ND	0.0022	0.00050	ND	0.11	0.025	ND	0.11	0.025
Carbon Disulfide	0.15	0.011	0.00053	0.020	0.011	0.00053	0.43 J	0.55	0.026	0.16 J	0.55	0.026
1,1,2-CI 1,2,2-F ethane (113)	ND	0.0022	0.00059	ND	0.0022	0.00059	ND	0.11	0.030	ND	0.11	0.030
Acetone	0.051	0.011	0.00063	ND	0.011	0.00063	ND	0.55	0.032	ND	0.55	0.032
Methylene Chloride	ND	0.0022	0.00063	ND	0.0022	0.00063	ND	0.11	0.031	ND	0.11	0.031
t-1,2-Dichloroethene	ND	0.0022	0.00066	ND	0.0022	0.00066	ND	0.11	0.033	ND	0.11	0.033
1,1-Dichloroethane	ND	0.0022	0.00030	ND	0.0022	0.00030	ND	0.11	0.015	ND	0.11	0.015
c-1,2-Dichloroethene	ND	0.0022	0.00042	ND	0.0022	0.00042	ND	0.11	0.021	ND	0.11	0.021
2-Butanone	0.022	0.0022	0.0014	0.031	0.0022	0.0014	ND	0.11	0.068	ND	0.11	0.068
t-Butyl Methyl Ether (MTBE)	0.0041	0.0022	0.00049	ND	0.0022	0.00049	ND	0.11	0.025	ND	0.11	0.025
Chloroform	ND	0.0022	0.00031	ND	0.0022	0.00031	ND	0.11	0.015	ND	0.11	0.015
1,1,1-Trichloroethane	ND	0.0022	0.00022	ND	0.0022	0.00022	ND	0.11	0.011	ND	0.11	0.011
Carbon Tetrachloride	ND	0.0022	0.00038	ND	0.0022	0.00038	ND	0.11	0.019	ND	0.11	0.019
Benzene	0.026	0.0022	0.00021	0.026	0.0022	0.00021	5.1	0.11	0.011	4.2	0.11	0.011
1,2-Dichloroethane	ND	0.0022	0.00016	ND	0.0022	0.00016	0.014 J	0.11	0.0082	ND	0.11	0.0082
Trichloroethene	ND	0.0022	0.00031	ND	0.0022	0.00031	ND	0.11	0.016	ND	0.11	0.016
1,2-Dichloropropane	ND	0.0022	0.00040	ND	0.0022	0.00040	ND	0.11	0.020	ND	0.11	0.020
Bromodichloromethane	ND	0.0022	0.00013	0.00028 J	0.0022	0.00013	ND	0.11	0.0066	ND	0.11	0.0066
c-1,3-Dichloropropene	ND	0.0022	0.00026	ND	0.0022	0.00026	ND	0.11	0.013	ND	0.11	0.013
4-Methyl-2-Pentanone	ND	0.0022	0.00015	ND	0.0022	0.00015	ND	0.11	0.0074	ND	0.11	0.0074
Toluene	0.036	0.0022	0.00017	0.037	0.0022	0.00017	6.6	0.11	0.0087	5.6	0.11	0.0087
t-1,3-Dichloropropene	ND	0.0022	0.00023	ND	0.0022	0.00023	ND	0.11	0.011	ND	0.11	0.011
1,1,2-Trichloroethane	ND	0.0022	0.00036	ND	0.0022	0.00036	ND	0.11	0.018	ND	0.11	0.018
1,3-Dichloropropane	ND	0.0022	0.00011	ND	0.0022	0.00011	ND	0.11	0.0055	ND	0.11	0.0055
Tetrachloroethene	ND	0.0022	0.00026	ND	0.0022	0.00026	ND	0.11	0.013	ND	0.11	0.013
2-Hexanone	ND	0.0022	0.00045	0.00085 J	0.0022	0.00045	ND	0.11	0.023	ND	0.11	0.023
Dibromochloromethane	ND	0.0022	0.00040	ND	0.0022	0.00040	ND	0.11	0.020	ND	0.11	0.020
1,2-Dibromoethane	ND	0.0022	0.00020	ND	0.0022	0.00020	ND	0.11	0.010	ND	0.11	0.010
Chlorobenzene	ND	0.0022	0.00017	ND	0.0022	0.00017	ND	0.11	0.0086	0.020 J	0.11	0.0086
Ethylbenzene	0.0052	0.0022	0.00013	0.0053	0.0022	0.00013	0.85	0.11	0.0063	0.75	0.11	0.0063
p,&m-Xylene	0.035	0.0022	0.00025	0.036	0.0022	0.00025	5.4	0.11	0.012	5.0	0.11	0.012
o-Xylene	0.018	0.0022	0.00027	0.018	0.0022	0.00027	2.8	0.11	0.013	2.5	0.11	0.013



Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 08/04/17
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	1080404-01			1080404-02			1080404-03			1080404-04		
Client Sample I.D.:	VEFF-08-03			VEFF-08-03D			VPOST-08-03			VINP-08-03		
Date/Time Sampled:	8/3/17 13:15			8/3/17 13:15			8/3/17 14:20			8/3/17 14:30		
Date/Time Analyzed:	8/14/17 14:53			8/14/17 14:13			8/14/17 16:54			8/14/17 16:13		
QC Batch No.:	170814MS2A1			170814MS2A1			170814MS2A1			170814MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.2			2.2			110			110		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Styrene	0.0011 J	0.0022	0.00028	0.0021 J	0.0022	0.00028	0.11	0.11	0.014	0.096 J	0.11	0.014
Bromoform	ND	0.0022	0.00012	ND	0.0022	0.00012	ND	0.11	0.0061	ND	0.11	0.0061
Isopropyl benzene	0.00047 J	0.0022	0.00023	0.00046 J	0.0022	0.00023	0.069 J	0.11	0.011	0.065 J	0.11	0.011
1,1,2,2-Tetrachloroethane	ND	0.0044	0.00013	ND	0.0044	0.00013	ND	0.22	0.0067	ND	0.22	0.0067
Benzyl Chloride	ND	0.0022	0.00040	ND	0.0022	0.00040	ND	0.11	0.020	ND	0.11	0.020
1,2,3-Trichloropropane	ND	0.0022	0.00059	ND	0.0022	0.00059	ND	0.11	0.030	ND	0.11	0.030
n-Propyl Benzene	0.00098 J	0.0022	0.00013	0.00097 J	0.0022	0.00013	0.12	0.11	0.0064	0.12	0.11	0.0064
4-Ethyl Toluene	0.011	0.0022	0.00014	0.012	0.0022	0.00014	1.4	0.11	0.0069	1.4	0.11	0.0069
1,3,5-Trimethylbenzene	0.0059	0.0044	0.00038	0.0063	0.0044	0.00038	0.77	0.22	0.019	0.73	0.22	0.019
4-Chlorotoluene	ND	0.0022	0.00026	ND	0.0022	0.00026	ND	0.11	0.013	ND	0.11	0.013
tert-Butylbenzene	0.00098 J	0.0022	0.00020	ND	0.0022	0.00020	0.10 J	0.11	0.0100	0.10 J	0.11	0.0100
1,2,4-Trimethylbenzene	0.0074	0.0044	0.00025	0.0081	0.0044	0.00025	0.75	0.22	0.012	0.77	0.22	0.012
sec-Butylbenzene	ND	0.0022	0.00021	ND	0.0022	0.00021	0.018 J	0.11	0.011	0.017 J	0.11	0.011
p-Isopropyltoluene	0.0023	0.0022	0.00029	0.00087 J	0.0022	0.00029	0.021 J	0.11	0.014	0.054 J	0.11	0.014
1,3-Dichlorobenzene	ND	0.0022	0.00027	ND	0.0022	0.00027	ND	0.11	0.013	ND	0.11	0.013
1,4-Dichlorobenzene	ND	0.0022	0.00032	ND	0.0022	0.00032	ND	0.11	0.016	ND	0.11	0.016
n-Butylbenzene	ND	0.0022	0.00016	ND	0.0022	0.00016	ND	0.11	0.0080	ND	0.11	0.0080
1,2-Dichlorobenzene	ND	0.0022	0.00027	ND	0.0022	0.00027	ND	0.11	0.014	ND	0.11	0.014
1,2,4-Trichlorobenzene	ND	0.0044	0.00036	ND	0.0044	0.00036	ND	0.22	0.018	ND	0.22	0.018
Hexachlorobutadiene	ND	0.0022	0.00013	ND	0.0022	0.00013	ND	0.11	0.0065	ND	0.11	0.0065
t-Butanol	ND	0.011	0.00042	ND	0.011	0.00042	ND	0.55	0.021	ND	0.55	0.021
n-Hexane	0.064	0.011	0.00030	0.069	0.011	0.00030	17	0.55	0.015	13	0.55	0.015
Isopropyl ether	ND	0.011	0.00024	ND	0.011	0.00024	ND	0.55	0.012	ND	0.55	0.012
t-Butyl ethyl ether	ND	0.011	0.00044	ND	0.011	0.00044	ND	0.55	0.022	ND	0.55	0.022
2,2-Dichloropropane	ND	0.011	0.00021	ND	0.011	0.00021	ND	0.55	0.010	ND	0.55	0.010
t-Amyl methyl ether	ND	0.011	0.00016	ND	0.011	0.00016	ND	0.55	0.0078	ND	0.55	0.0078
1,4-Dioxane	ND	0.011	0.00038	ND	0.011	0.00038	ND	0.55	0.019	ND	0.55	0.019
Naphthalene	ND	0.011	0.00084	ND	0.011	0.00084	ND	0.55	0.042	ND	0.55	0.042
1,2,3-Trichlorobenzene (TIC)	ND	--	--	ND	--	--	ND	--	--	ND	--	--

MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 8/18/17

The cover letter is an integral part of this analytical report



Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 08/04/17
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	METHOD BLANK													
Client Sample I.D.:	-													
Date/Time Sampled:	-													
Date/Time Analyzed:	8/14/17 12:53													
QC Batch No.:	170814MS2A1													
Analyst Initials:	DT													
Dilution Factor:	0.20													
ANALYTE	Result ppmv	RL ppmv	MDL ppmv											
Dichlorodifluoromethane (12)	ND	0.00020	0.000031											
Chloromethane	ND	0.00040	0.000044											
1,2-CI-1,1,2,2-F ethane (114)	ND	0.00020	0.000040											
Vinyl Chloride	ND	0.00020	0.000032											
Bromomethane	ND	0.00020	0.000059											
Chloroethane	ND	0.00020	0.00017											
Trichlorofluoromethane (11)	ND	0.00020	0.000043											
1,1-Dichloroethene	ND	0.00020	0.000045											
Carbon Disulfide	0.000096 J	0.0010	0.000048											
1,1,2-CI 1,2,2-F ethane (113)	ND	0.00020	0.000054											
Acetone	ND	0.0010	0.000058											
Methylene Chloride	ND	0.00020	0.000057											
t-1,2-Dichloroethene	ND	0.00020	0.000060											
1,1-Dichloroethane	ND	0.00020	0.000027											
c-1,2-Dichloroethene	ND	0.00020	0.000039											
2-Butanone	ND	0.00020	0.00012											
t-Butyl Methyl Ether (MTBE)	ND	0.00020	0.000045											
Chloroform	ND	0.00020	0.000028											
1,1,1-Trichloroethane	ND	0.00020	0.000020											
Carbon Tetrachloride	ND	0.00020	0.000035											
Benzene	0.000069 J	0.00020	0.000019											
1,2-Dichloroethane	ND	0.00020	0.000015											
Trichloroethene	ND	0.00020	0.000028											
1,2-Dichloropropane	ND	0.00020	0.000036											
Bromodichloromethane	ND	0.00020	0.000012											
c-1,3-Dichloropropene	ND	0.00020	0.000024											
4-Methyl-2-Pentanone	ND	0.00020	0.000013											
Toluene	ND	0.00020	0.000016											
t-1,3-Dichloropropene	ND	0.00020	0.000021											
1,1,2-Trichloroethane	ND	0.00020	0.000032											
1,3-Dichloropropane	ND	0.00020	0.0000099											
Tetrachloroethene	ND	0.00020	0.000024											
2-Hexanone	ND	0.00020	0.000041											
Dibromochloromethane	ND	0.00020	0.000036											
1,2-Dibromoethane	ND	0.00020	0.000018											
Chlorobenzene	ND	0.00020	0.000016											
Ethylbenzene	ND	0.00020	0.000011											
p,&m-Xylene	ND	0.00020	0.000023											
o-Xylene	ND	0.00020	0.000024											
Styrene	ND	0.00020	0.000026											



Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 08/04/17
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	METHOD BLANK												
Client Sample I.D.:	-												
Date/Time Sampled:	-												
Date/Time Analyzed:	8/14/17 12:53												
QC Batch No.:	170814MS2A1												
Analyst Initials:	DT												
Dilution Factor:	0.20												
ANALYTE	Result ppmv	RL ppmv	MDL ppmv										
Bromoform	ND	0.00020	0.000011										
Isopropyl benzene	0.000022 J	0.00020	0.000021										
1,1,2,2-Tetrachloroethane	ND	0.00040	0.000012										
Benzyl Chloride	ND	0.00020	0.000037										
1,2,3-Trichloropropane	ND	0.00020	0.000054										
n-Propyl Benzene	ND	0.00020	0.000012										
4-Ethyl Toluene	ND	0.00020	0.000013										
1,3,5-Trimethylbenzene	ND	0.00040	0.000035										
4-Chlorotoluene	ND	0.00020	0.000024										
tert-Butylbenzene	ND	0.00020	0.000018										
1,2,4-Trimethylbenzene	ND	0.00040	0.000023										
sec-Butylbenzene	ND	0.00020	0.000019										
p-Isopropyltoluene	ND	0.00020	0.000026										
1,3-Dichlorobenzene	ND	0.00020	0.000024										
1,4-Dichlorobenzene	ND	0.00020	0.000029										
n-Butylbenzene	ND	0.00020	0.000015										
1,2-Dichlorobenzene	ND	0.00020	0.000025										
1,2,4-Trichlorobenzene	ND	0.00040	0.000033										
Hexachlorobutadiene	ND	0.00020	0.000012										
t-Butanol	ND	0.0010	0.000038										
n-Hexane	ND	0.0010	0.000027										
Isopropyl ether	ND	0.0010	0.000022										
t-Butyl ethyl ether	ND	0.0010	0.000040										
2,2-Dichloropropane	ND	0.0010	0.000019										
t-Amyl methyl ether	ND	0.0010	0.000014										
1,4-Dioxane	ND	0.0010	0.000035										
Naphthalene	ND	0.0010	0.000077										
1,2,3-Trichlorobenzene (TIC)	ND	-	-										

MDL = Method Detection Limit
 ND = Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 8/18/17

The cover letter is an integral part of this analytical report



LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 170814MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date/Time Analyzed:	8/14/17 12:53		8/14/17 11:32		8/14/17 12:12						
Data File ID:	14AUG006.D		14AUG004.D		14AUG005.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/Fail
1,1-Dichloroethene	0.0	10.0	10.2	102	10.5	105	2.7	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.3	103	11.2	112	8.1	70	130	30	Pass
Trichloroethene	0.0	10.0	10.8	108	10.6	106	1.9	70	130	30	Pass
Toluene	0.0	10.0	10.0	100	9.7	97	3.3	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.7	97	9.5	95	1.5	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 8/18/17

The cover letter is an integral part of this analytical report



Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 08/04/17
 Matrix: Air
 Reporting Units: ppmv

EPA METHOD TO3

Lab No.:	I080404-01	I080404-02	I080404-03	I080404-04								
Client Sample I.D.:	VEFF-08-03	VEFF-08-03D	VPOST-08-03	VINF-08-03								
Date/Time Sampled:	8/3/17 13:15	8/3/17 13:15	8/3/17 14:20	8/3/17 14:30								
Date/Time Analyzed:	8/8/17 13:34	8/8/17 13:57	8/8/17 15:58	8/8/17 16:21								
QC Batch No.:	170808GC11A1	170808GC11A1	170808GC11A1	170808GC11A1								
Analyst Initials:	VM	VM	VM	VM								
Dilution Factor:	2.2	2.2	6.6	6.6								
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
TVOC as Hexane	1.9 J	2.2	0.39	2.4	2.2	0.39	370	6.6	1.2	340	6.6	1.2

MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 8/18/17

The cover letter is an integral part of this analytical report



QC Batch No: 170808GC11A1

Matrix: Air

Reporting Units: ppmv

**EPA METHOD TO3
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK	LCS	LCSD								
Date Analyzed:	8/8/17 13:12	8/8/17 12:03	8/8/17 12:26								
Analyst Initials:	VM	VM	VM								
Dilution Factor:	1.0	1.0	1.0								
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	% Rec.	Result ppmv	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
TVOC as Hexane	ND	1.0	0.18	4.58	92	4.60	92	0.4	70	130	25

MDL = Method Detection Limit

ND= Not Detected (below MDL)

RL = Reporting Limit

J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: _____

Mark Johnson
Mark Johnson
Operations Manager

Date _____

8/18/17

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Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 08/04/17
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	I080404-04													
Client Sample I.D.:	VINF-08-03													
Date/Time Sampled:	8/3/17 14:30													
Date/Time Analyzed:	8/9/17 20:27													
QC Batch No.:	170809GC8A3													
Analyst Initials:	AS													
Dilution Factor:	2.2													
ANALYTE	Result % v/v	RL % v/v	MDL % v/v											
Carbon Dioxide	0.85	0.022	0.00093											
Oxygen/Argon	21	1.1	0.081											
Nitrogen	78	2.2	0.32											
Methane	0.013	0.0022	0.00010											

Results normalized including non-methane hydrocarbons
 MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 8/16/17

The cover letter is an integral part of this analytical report



September 20, 2017

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

TEL:

FAX:

Workorder No.: N025868

RE: SFPP Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on September 12, 2017 by ASSET Laboratories .
The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in
accordance with the applicable laboratory certifications.

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

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

Sincerely,



Puri Romualdo

Laboratory Director

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ORELAP/NELAP Cert 4046

CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N025868
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N025868-001A	INF-09-12	Wastewater	9/12/2017 2:30:00 PM	9/12/2017	9/20/2017
N025868-001B	INF-09-12	Wastewater	9/12/2017 2:30:00 PM	9/12/2017	9/20/2017



CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N025868

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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

Analytical Comment 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 8260B:

Matrix Spike Duplicate (MSD) is outside recovery criteria for some analytes in QC sample N025867-001AMSD possibly due to non-homogeneity of sample. The associated Laboratory Control Sample (LCS) recovery was acceptable.

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for some analytes in QC samples N025867-001AMS and N025867-001AMSD possibly due to non-homogeneity of sample; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 20-Sep-17

CLIENT: CH2MHill
Lab Order: N025868
Project: SFPP Norwalk
Lab ID: N025868-001

Client Sample ID: INF-09-12
Collection Date: 9/12/2017 2:30:00 PM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: NV00922-MS5_170913A	QC Batch: P17VW152	PrepDate:			Analyst: QBM	
1,1,1,2-Tetrachloroethane	ND	0.089	1.0	ug/L	1	9/13/2017 05:17 PM
1,1,1-Trichloroethane	ND	0.15	1.0	ug/L	1	9/13/2017 05:17 PM
1,1,2,2-Tetrachloroethane	ND	0.14	1.0	ug/L	1	9/13/2017 05:17 PM
1,1,2-Trichloroethane	ND	0.15	1.0	ug/L	1	9/13/2017 05:17 PM
1,1-Dichloroethane	ND	0.13	0.50	ug/L	1	9/13/2017 05:17 PM
1,1-Dichloroethene	ND	0.15	1.0	ug/L	1	9/13/2017 05:17 PM
1,1-Dichloropropene	ND	0.12	1.0	ug/L	1	9/13/2017 05:17 PM
1,2,3-Trichlorobenzene	ND	0.16	1.0	ug/L	1	9/13/2017 05:17 PM
1,2,3-Trichloropropane	ND	0.097	1.0	ug/L	1	9/13/2017 05:17 PM
1,2,4-Trichlorobenzene	ND	0.13	1.0	ug/L	1	9/13/2017 05:17 PM
1,2,4-Trimethylbenzene	2.6	0.094	1.0	ug/L	1	9/13/2017 05:17 PM
1,2-Dibromo-3-chloropropane	ND	0.36	2.0	ug/L	1	9/13/2017 05:17 PM
1,2-Dibromoethane	ND	0.18	1.0	ug/L	1	9/13/2017 05:17 PM
1,2-Dichlorobenzene	ND	0.14	1.0	ug/L	1	9/13/2017 05:17 PM
1,2-Dichloroethane	0.17	0.13	0.50	J ug/L	1	9/13/2017 05:17 PM
1,2-Dichloropropane	ND	0.14	1.0	ug/L	1	9/13/2017 05:17 PM
1,3,5-Trimethylbenzene	6.0	0.11	1.0	ug/L	1	9/13/2017 05:17 PM
1,3-Dichlorobenzene	ND	0.11	1.0	ug/L	1	9/13/2017 05:17 PM
1,3-Dichloropropane	ND	0.13	1.0	ug/L	1	9/13/2017 05:17 PM
1,4-Dichlorobenzene	ND	0.13	1.0	ug/L	1	9/13/2017 05:17 PM
2,2-Dichloropropane	ND	0.16	1.0	ug/L	1	9/13/2017 05:17 PM
2-Butanone	ND	1.9	10	ug/L	1	9/13/2017 05:17 PM
2-Chlorotoluene	ND	0.14	1.0	ug/L	1	9/13/2017 05:17 PM
4-Chlorotoluene	ND	0.14	1.0	ug/L	1	9/13/2017 05:17 PM
4-Isopropyltoluene	0.54	0.13	1.0	J ug/L	1	9/13/2017 05:17 PM
4-Methyl-2-pentanone	ND	1.4	10	ug/L	1	9/13/2017 05:17 PM
Acetone	ND	4.3	10	ug/L	1	9/13/2017 05:17 PM
Benzene	ND	0.14	1.0	ug/L	1	9/13/2017 05:17 PM
Bromobenzene	ND	0.13	1.0	ug/L	1	9/13/2017 05:17 PM
Bromochloromethane	ND	0.15	1.0	ug/L	1	9/13/2017 05:17 PM
Bromodichloromethane	ND	0.10	1.0	ug/L	1	9/13/2017 05:17 PM
Bromoform	1.8	0.34	1.0	ug/L	1	9/13/2017 05:17 PM
Bromomethane	ND	0.12	1.0	ug/L	1	9/13/2017 05:17 PM
Carbon disulfide	ND	0.14	1.0	ug/L	1	9/13/2017 05:17 PM
Carbon tetrachloride	ND	0.13	0.50	ug/L	1	9/13/2017 05:17 PM
Chlorobenzene	ND	0.13	1.0	ug/L	1	9/13/2017 05:17 PM

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



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ANALYTICAL RESULTS

Print Date: 20-Sep-17

CLIENT: CH2MHill
Lab Order: N025868
Project: SFPP Norwalk
Lab ID: N025868-001

Client Sample ID: INF-09-12
Collection Date: 9/12/2017 2:30:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID: NV00922-MS5_170913A	QC Batch: P17VW152	PrepDate:			Analyst: QBM	
Chloroethane	ND	0.19	1.0	ug/L	1	9/13/2017 05:17 PM
Chloroform	ND	0.18	1.0	ug/L	1	9/13/2017 05:17 PM
Chloromethane	ND	0.22	1.0	ug/L	1	9/13/2017 05:17 PM
cis-1,2-Dichloroethene	ND	0.20	1.0	ug/L	1	9/13/2017 05:17 PM
cis-1,3-Dichloropropene	ND	0.14	1.0	ug/L	1	9/13/2017 05:17 PM
Di-isopropyl ether	0.70	0.18	1.0	J ug/L	1	9/13/2017 05:17 PM
Dibromochloromethane	ND	0.12	1.0	ug/L	1	9/13/2017 05:17 PM
Dibromomethane	ND	0.12	1.0	ug/L	1	9/13/2017 05:17 PM
Dichlorodifluoromethane	ND	0.17	1.0	ug/L	1	9/13/2017 05:17 PM
Ethyl tert-butyl ether	ND	0.15	1.0	ug/L	1	9/13/2017 05:17 PM
Ethylbenzene	0.15	0.14	1.0	J ug/L	1	9/13/2017 05:17 PM
Freon-113	ND	0.19	1.0	ug/L	1	9/13/2017 05:17 PM
Hexachlorobutadiene	ND	0.15	1.0	ug/L	1	9/13/2017 05:17 PM
Isopropylbenzene	ND	0.11	1.0	ug/L	1	9/13/2017 05:17 PM
m,p-Xylene	2.3	0.23	1.0	ug/L	1	9/13/2017 05:17 PM
Methylene chloride	0.67	0.26	2.0	J ug/L	1	9/13/2017 05:17 PM
MTBE	0.59	0.13	1.0	J ug/L	1	9/13/2017 05:17 PM
n-Butylbenzene	ND	0.15	1.0	ug/L	1	9/13/2017 05:17 PM
n-Propylbenzene	ND	0.16	1.0	ug/L	1	9/13/2017 05:17 PM
Naphthalene	1.0	0.094	1.0	ug/L	1	9/13/2017 05:17 PM
o-Xylene	2.1	0.13	1.0	ug/L	1	9/13/2017 05:17 PM
sec-Butylbenzene	0.22	0.12	1.0	J ug/L	1	9/13/2017 05:17 PM
Styrene	ND	0.14	1.0	ug/L	1	9/13/2017 05:17 PM
Tert-amyl methyl ether	ND	0.12	1.0	ug/L	1	9/13/2017 05:17 PM
Tert-Butanol	5.4	1.8	5.0	ug/L	1	9/13/2017 05:17 PM
tert-Butylbenzene	ND	0.11	1.0	ug/L	1	9/13/2017 05:17 PM
Tetrachloroethene	ND	0.13	1.0	ug/L	1	9/13/2017 05:17 PM
Toluene	0.17	0.14	2.0	J ug/L	1	9/13/2017 05:17 PM
trans-1,2-Dichloroethene	ND	0.20	1.0	ug/L	1	9/13/2017 05:17 PM
trans-1,3-Dichloropropene	ND	0.13	1.0	ug/L	1	9/13/2017 05:17 PM
Trichloroethene	ND	0.14	1.0	ug/L	1	9/13/2017 05:17 PM
Trichlorofluoromethane	ND	0.13	1.0	ug/L	1	9/13/2017 05:17 PM
Vinyl chloride	ND	0.15	0.50	ug/L	1	9/13/2017 05:17 PM
Xylenes, Total	4.4	1.5	2.0	ug/L	1	9/13/2017 05:17 PM
Surr: 1,2-Dichloroethane-d4	88.2	0	72-119	%REC	1	9/13/2017 05:17 PM
Surr: 4-Bromofluorobenzene	101	0	76-119	%REC	1	9/13/2017 05:17 PM

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



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ANALYTICAL RESULTS

Print Date: 20-Sep-17

CLIENT: CH2MHill
Lab Order: N025868
Project: SFPP Norwalk
Lab ID: N025868-001

Client Sample ID: INF-09-12
Collection Date: 9/12/2017 2:30:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID: NV00922-MS5_170913A	QC Batch: P17VW152				PrepDate:		Analyst: QBM
Surr: Dibromofluoromethane	96.4	0	85-115	%REC	1	9/13/2017 05:17 PM	
Surr: Toluene-d8	102	0	81-120	%REC	1	9/13/2017 05:17 PM	

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: NV00922-GC3_170914A	QC Batch: 63774				PrepDate: 9/14/2017		Analyst: MDM
TPH-Diesel (C13-C22)	2400	16	26	ug/L	1	9/14/2017 03:38 PM	
TPH-Oil (C23-C36)	1300	14	26	ug/L	1	9/14/2017 03:38 PM	
Surr: Octacosane	81.3	0	26-152	%REC	1	9/14/2017 03:38 PM	
Surr: p-Terphenyl	83.2	0	57-132	%REC	1	9/14/2017 03:38 PM	

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: NV00922-GC4_170913A	QC Batch: E17VW087				PrepDate:		Analyst: QBM
TPH-Gasoline (C4-C12)	940	16	50	ug/L	1	9/13/2017 05:03 PM	
Surr: Chlorobenzene - d5	99.9	0	74-138	%REC	1	9/13/2017 05:03 PM	

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_170914A	QC Batch: R117871				PrepDate:		Analyst: MDM
Total TPH	4600	16	50	ug/L	1	9/14/2017	

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



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CLIENT: CH2MHill
Work Order: N025868
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-63774	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 9/14/2017	RunNo: 117871						
Client ID: PBW	Batch ID: 63774	TestNo: EPA 8015B EPA 3510C		Analysis Date: 9/14/2017	SeqNo: 2764607						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	16.059	25									J
Surr: Octacosane	79.283		80.00		99.1	26	152				
Surr: p-Terphenyl	78.975		80.00		98.7	57	132				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N025868
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPTOT

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

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N025868
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

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

Sample ID: E170913MB1	SampType: MBLK	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 117849						
Client ID: PBW	Batch ID: E17VW087	TestNo: EPA 8015B	Analysis Date: 9/13/2017	SeqNo: 2763137							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	50									
Surr: Chlorobenzene - d5	60962.000		50000		122	74	138				

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

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

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N025868
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170913LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850						
Client ID: LCSW	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.240	1.0	20.00	0	101	81	129				
1,1,1-Trichloroethane	19.790	1.0	20.00	0	99.0	67	132				
1,1,2,2-Tetrachloroethane	18.000	1.0	20.00	0	90.0	63	128				
1,1,2-Trichloroethane	18.440	1.0	20.00	0	92.2	75	125				
1,1-Dichloroethane	19.890	0.50	20.00	0	99.4	69	133				
1,1-Dichloroethene	19.360	1.0	20.00	0	96.8	68	130				
1,1-Dichloropropene	20.800	1.0	20.00	0	104	73	132				
1,2,3-Trichlorobenzene	19.310	1.0	20.00	0	96.6	67	137				
1,2,3-Trichloropropane	18.940	1.0	20.00	0	94.7	73	124				
1,2,4-Trichlorobenzene	19.820	1.0	20.00	0	99.1	66	134				
1,2,4-Trimethylbenzene	21.260	1.0	20.00	0	106	74	132				
1,2-Dibromo-3-chloropropane	17.960	2.0	20.00	0	89.8	50	132				
1,2-Dibromoethane	17.190	1.0	20.00	0	86.0	80	121				
1,2-Dichlorobenzene	19.710	1.0	20.00	0	98.6	71	122				
1,2-Dichloroethane	17.760	0.50	20.00	0	88.8	69	132				
1,2-Dichloropropane	19.700	1.0	20.00	0	98.5	75	125				
1,3,5-Trimethylbenzene	21.510	1.0	20.00	0	108	74	131				
1,3-Dichlorobenzene	20.620	1.0	20.00	0	103	75	124				
1,3-Dichloropropane	18.770	1.0	20.00	0	93.8	73	126				
1,4-Dichlorobenzene	19.890	1.0	20.00	0	99.4	74	123				
2,2-Dichloropropane	20.120	1.0	20.00	0	101	69	137				
2-Butanone	157.820	10	200.0	0	78.9	49	136				
2-Chlorotoluene	21.010	1.0	20.00	0	105	73	126				
4-Chlorotoluene	20.890	1.0	20.00	0	104	74	128				
4-Isopropyltoluene	21.750	1.0	20.00	0	109	73	130				
4-Methyl-2-pentanone	170.780	10	200.0	0	85.4	58	134				
Acetone	173.560	10	200.0	0	86.8	40	135				
Benzene	19.890	1.0	20.00	0	99.4	81	122				
Bromobenzene	19.950	1.0	20.00	0	99.8	76	124				
Bromochloromethane	19.830	1.0	20.00	0	99.2	65	129				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N025868
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170913LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850						
Client ID: LCSW	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	19.900	1.0	20.00	0	99.5	76	121				
Bromoform	17.730	1.0	20.00	0	88.6	69	128				
Bromomethane	21.750	1.0	20.00	0	109	53	141				
Carbon disulfide	19.610	1.0	20.00	0	98.0	75	125				
Carbon tetrachloride	21.070	0.50	20.00	0	105	66	138				
Chlorobenzene	19.930	1.0	20.00	0	99.7	81	122				
Chloroethane	20.060	1.0	20.00	0	100	58	133				
Chloroform	18.250	1.0	20.00	0	91.2	69	128				
Chloromethane	19.650	1.0	20.00	0	98.2	56	131				
cis-1,2-Dichloroethene	18.850	1.0	20.00	0	94.3	72	126				
cis-1,3-Dichloropropene	19.750	1.0	20.00	0	98.8	69	131				
Di-isopropyl ether	18.980	1.0	20.00	0	94.9	70	130				
Dibromochloromethane	18.190	1.0	20.00	0	91.0	66	133				
Dibromomethane	17.890	1.0	20.00	0	89.4	76	125				
Dichlorodifluoromethane	19.560	1.0	20.00	0	97.8	53	153				
Ethyl tert-butyl ether	17.930	1.0	20.00	0	89.7	70	130				
Ethylbenzene	20.270	1.0	20.00	0	101	73	127				
Freon-113	19.110	1.0	20.00	0	95.6	75	125				
Hexachlorobutadiene	21.200	1.0	20.00	0	106	67	131				
Isopropylbenzene	21.490	1.0	20.00	0	107	75	127				
m,p-Xylene	41.400	1.0	40.00	0	104	76	128				
Methylene chloride	19.430	2.0	20.00	0	97.2	63	137				
MTBE	16.610	1.0	20.00	0	83.0	65	123				
n-Butylbenzene	21.300	1.0	20.00	0	106	69	137				
n-Propylbenzene	21.690	1.0	20.00	0	108	72	129				
Naphthalene	16.740	1.0	20.00	0	83.7	54	138				
o-Xylene	20.320	1.0	20.00	0	102	80	121				
sec-Butylbenzene	22.020	1.0	20.00	0	110	72	127				
Styrene	20.160	1.0	20.00	0	101	65	134				
Tert-amyl methyl ether	17.080	1.0	20.00	0	85.4	70	130				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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CLIENT: CH2MHill
Work Order: N025868
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170913LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850						
Client ID: LCSW	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	71.030	5.0	100.0	0	71.0	70	130				
tert-Butylbenzene	21.040	1.0	20.00	0	105	70	129				
Tetrachloroethene	20.870	1.0	20.00	0	104	66	128				
Toluene	19.840	2.0	20.00	0	99.2	77	122				
trans-1,2-Dichloroethene	19.700	1.0	20.00	0	98.5	63	137				
trans-1,3-Dichloropropene	19.410	1.0	20.00	0	97.0	59	135				
Trichloroethene	20.290	1.0	20.00	0	101	70	127				
Trichlorofluoromethane	19.720	1.0	20.00	0	98.6	57	129				
Vinyl chloride	19.430	0.50	20.00	0	97.2	50	134				
Xylenes, Total	61.720	2.0	60.00	0	103	75	125				
Surr: 1,2-Dichloroethane-d4	23.140		25.00		92.6	72	119				
Surr: 4-Bromofluorobenzene	25.580		25.00		102	76	119				
Surr: Dibromofluoromethane	25.210		25.00		101	85	115				
Surr: Toluene-d8	24.780		25.00		99.1	81	120				

Sample ID: P170913MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850						
Client ID: PBW	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
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									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	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 |



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

CLIENT: CH2MHill
Work Order: N025868
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170913MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850						
Client ID: PBW	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	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-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	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 |



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CLIENT: CH2MHill
Work Order: N025868
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170913MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850						
Client ID: PBW	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	2.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	0.140	1.0									J
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
tert-Butylbenzene	ND	1.0									
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									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	0.50									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	23.000		25.00		92.0	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 |



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CLIENT: CH2MHill
Work Order: N025868
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

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

Sample ID: N025867-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850						
Client ID: ZZZZZ	Batch ID: P17VW152	TestNo: EPA 8260B	Analysis Date: 9/13/2017	SeqNo: 2763152							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	21.200	1.0	20.00	0	106	81	129				
1,1,1-Trichloroethane	22.440	1.0	20.00	0	112	67	132				
1,1,2,2-Tetrachloroethane	19.090	1.0	20.00	0	95.4	63	128				
1,1,2-Trichloroethane	19.090	1.0	20.00	0	95.4	75	125				
1,1-Dichloroethane	21.390	0.50	20.00	0	107	69	133				
1,1-Dichloroethene	21.060	1.0	20.00	0	105	68	130				
1,1-Dichloropropene	22.470	1.0	20.00	0	112	73	132				
1,2,3-Trichlorobenzene	18.740	1.0	20.00	0	93.7	67	137				
1,2,3-Trichloropropane	18.770	1.0	20.00	0	93.8	73	124				
1,2,4-Trichlorobenzene	19.370	1.0	20.00	0	96.9	66	134				
1,2,4-Trimethylbenzene	20.580	1.0	20.00	0	103	74	132				
1,2-Dibromo-3-chloropropane	17.260	2.0	20.00	0	86.3	50	132				
1,2-Dibromoethane	18.550	1.0	20.00	0	92.8	80	121				
1,2-Dichlorobenzene	19.930	1.0	20.00	0	99.7	71	122				
1,2-Dichloroethane	18.700	0.50	20.00	0	93.5	69	132				
1,2-Dichloropropane	20.850	1.0	20.00	0	104	75	125				
1,3,5-Trimethylbenzene	21.970	1.0	20.00	0	110	74	131				
1,3-Dichlorobenzene	21.430	1.0	20.00	0	107	75	124				
1,3-Dichloropropane	19.910	1.0	20.00	0	99.6	73	126				
1,4-Dichlorobenzene	20.600	1.0	20.00	0	103	74	123				
2,2-Dichloropropane	23.090	1.0	20.00	0	115	69	137				
2-Butanone	164.630	10	200.0	0	82.3	49	136				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N025868
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N025867-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850
Client ID: ZZZZZ	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763152

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorotoluene	21.670	1.0	20.00	0	108	73	126				
4-Chlorotoluene	21.820	1.0	20.00	0	109	74	128				
4-Isopropyltoluene	22.700	1.0	20.00	0	114	73	130				
4-Methyl-2-pentanone	176.140	10	200.0	0	88.1	58	134				
Acetone	179.540	10	200.0	0	89.8	40	135				
Benzene	21.510	1.0	20.00	0	108	81	122				
Bromobenzene	20.540	1.0	20.00	0	103	76	124				
Bromochloromethane	20.680	1.0	20.00	0	103	65	129				
Bromodichloromethane	21.120	1.0	20.00	0	106	76	121				
Bromoform	17.620	1.0	20.00	0	88.1	69	128				
Bromomethane	24.050	1.0	20.00	0	120	53	141				
Carbon disulfide	21.520	1.0	20.00	0	108	75	125				
Carbon tetrachloride	23.370	0.50	20.00	0	117	66	138				
Chlorobenzene	20.900	1.0	20.00	0	104	81	122				
Chloroethane	21.310	1.0	20.00	0	107	58	133				
Chloroform	19.340	1.0	20.00	0	96.7	69	128				
Chloromethane	20.730	1.0	20.00	0	104	56	131				
cis-1,2-Dichloroethene	19.970	1.0	20.00	0	99.8	72	126				
cis-1,3-Dichloropropene	20.650	1.0	20.00	0	103	69	131				
Di-isopropyl ether	20.360	1.0	20.00	0	102	70	130				
Dibromochloromethane	19.330	1.0	20.00	0	96.7	66	133				
Dibromomethane	18.510	1.0	20.00	0	92.6	76	125				
Dichlorodifluoromethane	21.230	1.0	20.00	0	106	53	153				
Ethyl tert-butyl ether	19.150	1.0	20.00	0	95.8	70	130				
Ethylbenzene	21.640	1.0	20.00	0	108	73	127				
Freon-113	21.490	1.0	20.00	0	107	75	125				
Hexachlorobutadiene	21.800	1.0	20.00	0	109	67	131				
Isopropylbenzene	22.490	1.0	20.00	0	112	75	127				
m,p-Xylene	43.980	1.0	40.00	0	110	76	128				
Methylene chloride	21.260	2.0	20.00	0	106	63	137				

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: N025868
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N025867-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850
Client ID: ZZZZZ	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763152

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	17.680	1.0	20.00	0	88.4	65	123				
n-Butylbenzene	22.430	1.0	20.00	0	112	69	137				
n-Propylbenzene	22.780	1.0	20.00	0	114	72	129				
Naphthalene	14.730	1.0	20.00	0	73.6	54	138				
o-Xylene	21.530	1.0	20.00	0	108	80	121				
sec-Butylbenzene	23.380	1.0	20.00	0	117	72	127				
Styrene	17.990	1.0	20.00	0	90.0	65	134				
Tert-amyl methyl ether	18.130	1.0	20.00	0	90.7	70	130				
Tert-Butanol	70.450	5.0	100.0	0	70.4	70	130				
tert-Butylbenzene	22.340	1.0	20.00	0	112	70	129				
Tetrachloroethene	22.820	1.0	20.00	0	114	66	128				
Toluene	21.260	2.0	20.00	0	106	77	122				
trans-1,2-Dichloroethene	21.160	1.0	20.00	0	106	63	137				
trans-1,3-Dichloropropene	19.940	1.0	20.00	0	99.7	59	135				
Trichloroethene	21.810	1.0	20.00	0	109	70	127				
Trichlorofluoromethane	21.990	1.0	20.00	0	110	57	129				
Vinyl chloride	20.920	0.50	20.00	0	105	50	134				
Xylenes, Total	65.510	2.0	60.00	0	109	75	125				
Surr: 1,2-Dichloroethane-d4	23.890		25.00		95.6	72	119				
Surr: 4-Bromofluorobenzene	25.020		25.00		100	76	119				
Surr: Dibromofluoromethane	26.010		25.00		104	85	115				
Surr: Toluene-d8	25.340		25.00		101	81	120				

Sample ID: N025867-001AMS	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850
Client ID: ZZZZZ	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763153

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	21.290	1.0	20.00	0	106	81	129	21.20	0.424	20	
1,1,1-Trichloroethane	21.480	1.0	20.00	0	107	67	132	22.44	4.37	20	
1,1,2,2-Tetrachloroethane	19.300	1.0	20.00	0	96.5	63	128	19.09	1.09	20	

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N025868
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N025867-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850						
Client ID: ZZZZZ	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763153						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	19.390	1.0	20.00	0	97.0	75	125	19.09	1.56	20	
1,1-Dichloroethane	21.500	0.50	20.00	0	108	69	133	21.39	0.513	20	
1,1-Dichloroethene	18.070	1.0	20.00	0	90.4	68	130	21.06	15.3	20	
1,1-Dichloropropene	22.100	1.0	20.00	0	110	73	132	22.47	1.66	20	
1,2,3-Trichlorobenzene	20.350	1.0	20.00	0	102	67	137	18.74	8.24	20	
1,2,3-Trichloropropane	18.600	1.0	20.00	0	93.0	73	124	18.77	0.910	20	
1,2,4-Trichlorobenzene	20.550	1.0	20.00	0	103	66	134	19.37	5.91	20	
1,2,4-Trimethylbenzene	7.010	1.0	20.00	0	35.0	74	132	20.58	98.4	20	SR
1,2-Dibromo-3-chloropropane	17.350	2.0	20.00	0	86.8	50	132	17.26	0.520	20	
1,2-Dibromoethane	18.340	1.0	20.00	0	91.7	80	121	18.55	1.14	20	
1,2-Dichlorobenzene	20.750	1.0	20.00	0	104	71	122	19.93	4.03	20	
1,2-Dichloroethane	18.980	0.50	20.00	0	94.9	69	132	18.70	1.49	20	
1,2-Dichloropropane	20.600	1.0	20.00	0	103	75	125	20.85	1.21	20	
1,3,5-Trimethylbenzene	17.160	1.0	20.00	0	85.8	74	131	21.97	24.6	20	R
1,3-Dichlorobenzene	21.240	1.0	20.00	0	106	75	124	21.43	0.891	20	
1,3-Dichloropropane	19.580	1.0	20.00	0	97.9	73	126	19.91	1.67	20	
1,4-Dichlorobenzene	20.690	1.0	20.00	0	103	74	123	20.60	0.436	20	
2,2-Dichloropropane	21.870	1.0	20.00	0	109	69	137	23.09	5.43	20	
2-Butanone	160.100	10	200.0	0	80.0	49	136	164.6	2.79	20	
2-Chlorotoluene	21.160	1.0	20.00	0	106	73	126	21.67	2.38	20	
4-Chlorotoluene	21.800	1.0	20.00	0	109	74	128	21.82	0.0917	20	
4-Isopropyltoluene	19.670	1.0	20.00	0	98.4	73	130	22.70	14.3	20	
4-Methyl-2-pentanone	174.800	10	200.0	0	87.4	58	134	176.1	0.764	20	
Acetone	182.750	10	200.0	0	91.4	40	135	179.5	1.77	20	
Benzene	21.750	1.0	20.00	0	109	81	122	21.51	1.11	20	
Bromobenzene	21.220	1.0	20.00	0	106	76	124	20.54	3.26	20	
Bromochloromethane	21.300	1.0	20.00	0	106	65	129	20.68	2.95	20	
Bromodichloromethane	21.460	1.0	20.00	0	107	76	121	21.12	1.60	20	
Bromoform	18.210	1.0	20.00	0	91.1	69	128	17.62	3.29	20	
Bromomethane	23.240	1.0	20.00	0	116	53	141	24.05	3.43	20	

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N025868
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N025867-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850						
Client ID: ZZZZZ	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763153						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	21.550	1.0	20.00	0	108	75	125	21.52	0.139	20	
Carbon tetrachloride	22.700	0.50	20.00	0	114	66	138	23.37	2.91	20	
Chlorobenzene	20.700	1.0	20.00	0	104	81	122	20.90	0.962	20	
Chloroethane	22.330	1.0	20.00	0	112	58	133	21.31	4.67	20	
Chloroform	19.430	1.0	20.00	0	97.2	69	128	19.34	0.464	20	
Chloromethane	21.430	1.0	20.00	0	107	56	131	20.73	3.32	20	
cis-1,2-Dichloroethene	22.350	1.0	20.00	0	112	72	126	19.97	11.2	20	
cis-1,3-Dichloropropene	21.160	1.0	20.00	0	106	69	131	20.65	2.44	20	
Di-isopropyl ether	20.660	1.0	20.00	0	103	70	130	20.36	1.46	20	
Dibromochloromethane	19.730	1.0	20.00	0	98.6	66	133	19.33	2.05	20	
Dibromomethane	19.290	1.0	20.00	0	96.5	76	125	18.51	4.13	20	
Dichlorodifluoromethane	21.110	1.0	20.00	0	106	53	153	21.23	0.567	20	
Ethyl tert-butyl ether	18.640	1.0	20.00	0	93.2	70	130	19.15	2.70	20	
Ethylbenzene	21.170	1.0	20.00	0	106	73	127	21.64	2.20	20	
Freon-113	20.880	1.0	20.00	0	104	75	125	21.49	2.88	20	
Hexachlorobutadiene	22.790	1.0	20.00	0	114	67	131	21.80	4.44	20	
Isopropylbenzene	22.240	1.0	20.00	0	111	75	127	22.49	1.12	20	
m,p-Xylene	39.220	1.0	40.00	0	98.0	76	128	43.98	11.4	20	
Methylene chloride	22.220	2.0	20.00	0	111	63	137	21.26	4.42	20	
MTBE	17.370	1.0	20.00	0	86.9	65	123	17.68	1.77	20	
n-Butylbenzene	22.310	1.0	20.00	0	112	69	137	22.43	0.536	20	
n-Propylbenzene	22.680	1.0	20.00	0	113	72	129	22.78	0.440	20	
Naphthalene	8.340	1.0	20.00	0	41.7	54	138	14.73	55.4	20	SR
o-Xylene	20.870	1.0	20.00	0	104	80	121	21.53	3.11	20	
sec-Butylbenzene	22.910	1.0	20.00	0	115	72	127	23.38	2.03	20	
Styrene	2.160	1.0	20.00	0	10.8	65	134	17.99	157	20	SR
Tert-amyl methyl ether	18.110	1.0	20.00	0	90.6	70	130	18.13	0.110	20	
Tert-Butanol	72.130	5.0	100.0	0	72.1	70	130	70.45	2.36	20	
tert-Butylbenzene	22.390	1.0	20.00	0	112	70	129	22.34	0.224	20	
Tetrachloroethene	22.780	1.0	20.00	0	114	66	128	22.82	0.175	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 |



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

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

CLIENT: CH2MHill
Work Order: N025868
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N025867-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 117850						
Client ID: ZZZZZ	Batch ID: P17VW152	TestNo: EPA 8260B		Analysis Date: 9/13/2017	SeqNo: 2763153						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	21.560	2.0	20.00	0	108	77	122	21.26	1.40	20	
trans-1,2-Dichloroethene	19.680	1.0	20.00	0	98.4	63	137	21.16	7.25	20	
trans-1,3-Dichloropropene	19.700	1.0	20.00	0	98.5	59	135	19.94	1.21	20	
Trichloroethene	21.690	1.0	20.00	0	108	70	127	21.81	0.552	20	
Trichlorofluoromethane	21.050	1.0	20.00	0	105	57	129	21.99	4.37	20	
Vinyl chloride	20.940	0.50	20.00	0	105	50	134	20.92	0.0956	20	
Xylenes, Total	60.090	2.0	60.00	0	100	75	125	65.51	8.63	20	
Surr: 1,2-Dichloroethane-d4	23.340		25.00		93.4	72	119		0		
Surr: 4-Bromofluorobenzene	24.910		25.00		99.6	76	119		0		
Surr: Dibromofluoromethane	25.660		25.00		103	85	115		0		
Surr: Toluene-d8	25.640		25.00		103	81	120		0		

Qualifiers:

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



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"Serving Clients with Passion and Professionalism"

ASSET Laboratories

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

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

Cooler Received/Opened On: 9/12/2017 Workorder: N025868
 Rep sample Temp (Deg C): 2.9 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 9475 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

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

Comments:

Checklist Completed By: YR YR 9/18/2017

Reviewed By: HS 9/18/2017

ASSET Laboratories

WORK ORDER Summary

12-Sep-17

WorkOrder: N025868

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 9/12/2017

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N025868-001A	INF-09-12	9/12/2017 2:30:00 PM	9/19/2017	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			9/19/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N025868-001B			9/19/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/19/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/19/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N025868-002A	FOLDER	9/19/2017	9/19/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			9/19/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555
www.gso.com

Ship From

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

Tracking #: 537579475

CPS



Ship To

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

LVS
LAS VEGAS

A

COD: \$0.00

Weight: 0 lb(s)

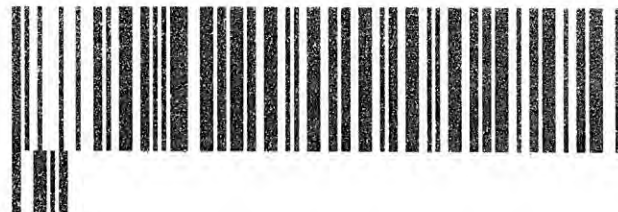
Reference:

C89102A

Delivery Instructions:

HOLD FOR PICK-UP

Signature Type: NOT REQUIRED



72122155

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

LABEL INSTRUCTIONS:

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

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

Step 2: Fold this page in half.

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

TERMS AND CONDITIONS:

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

2-9-17
1R42



September 22, 2017

CH2M HILL
ATTN: Eric Davis
1000 Wilshire Blvd., Suite 2100
Los Angeles, CA 90017



LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175
TX Cert T104704450-14-6
EPA Methods TO14A, TO15
UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: SFPP Norwalk
Lab Number: I091307-01/04

Enclosed are results for sample(s) received 9/13/17 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Eric Davis and Vladimir Carino 9/22/17.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink that reads "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 09/13/17
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	I091307-01			I091307-02			I091307-03			I091307-04		
Client Sample I.D.:	VEFF-09-12			VEFF-09-12D			VPOST-09-12			VINP-09-12		
Date/Time Sampled:	9/12/17 11:30			9/12/17 11:30			9/12/17 11:45			9/12/17 12:00		
Date/Time Analyzed:	9/18/17 21:51			9/18/17 22:33			9/18/17 19:02			9/18/17 19:44		
QC Batch No.:	170918MS2A1			170918MS2A1			170918MS2A1			170918MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.1			110			84		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Dichlorodifluoromethane (12)	ND	0.0021	0.00032	ND	0.0021	0.00032	ND	0.11	0.016	ND	0.084	0.013
Chloromethane	ND	0.0042	0.00046	ND	0.0042	0.00046	ND	0.21	0.023	ND	0.17	0.019
1,2-CI-1,1,2,2-F ethane (114)	ND	0.0021	0.00042	ND	0.0021	0.00042	ND	0.11	0.021	ND	0.084	0.017
Vinyl Chloride	ND	0.0021	0.00034	ND	0.0021	0.00034	ND	0.11	0.017	ND	0.084	0.014
Bromomethane	ND	0.0021	0.00062	ND	0.0021	0.00062	ND	0.11	0.031	ND	0.084	0.025
Chloroethane	ND	0.0021	0.0018	ND	0.0021	0.0018	ND	0.11	0.088	ND	0.084	0.071
Trichlorofluoromethane (11)	ND	0.0021	0.00045	ND	0.0021	0.00045	ND	0.11	0.023	ND	0.084	0.018
1,1-Dichloroethene	ND	0.0021	0.00048	ND	0.0021	0.00048	ND	0.11	0.024	ND	0.084	0.019
Carbon Disulfide	0.21	0.011	0.00050	0.20	0.011	0.00050	0.050 J	0.53	0.025	0.043 J	0.42	0.020
1,1,2-CI 1,2,2-F ethane (113)	ND	0.0021	0.00057	ND	0.0021	0.00057	ND	0.11	0.028	ND	0.084	0.023
Acetone	0.015	0.011	0.00061	0.021	0.011	0.00061	ND	0.53	0.030	ND	0.42	0.024
Methylene Chloride	ND	0.0021	0.00060	ND	0.0021	0.00060	ND	0.11	0.030	ND	0.084	0.024
t-1,2-Dichloroethene	ND	0.0021	0.00063	ND	0.0021	0.00063	ND	0.11	0.031	ND	0.084	0.025
1,1-Dichloroethane	ND	0.0021	0.00029	ND	0.0021	0.00029	ND	0.11	0.014	ND	0.084	0.011
c-1,2-Dichloroethene	ND	0.0021	0.00041	ND	0.0021	0.00041	ND	0.11	0.020	ND	0.084	0.016
2-Butanone	0.0066	0.0021	0.0013	0.0090	0.0021	0.0013	ND	0.11	0.065	ND	0.084	0.052
t-Butyl Methyl Ether (MTBE)	0.0016 J	0.0021	0.00047	0.0016 J	0.0021	0.00047	0.54	0.11	0.024	0.51	0.084	0.019
Chloroform	ND	0.0021	0.00029	ND	0.0021	0.00029	ND	0.11	0.015	ND	0.084	0.012
1,1,1-Trichloroethane	ND	0.0021	0.00021	ND	0.0021	0.00021	ND	0.11	0.011	ND	0.084	0.0084
Carbon Tetrachloride	ND	0.0021	0.00037	ND	0.0021	0.00037	ND	0.11	0.018	ND	0.084	0.015
Benzene	0.014	0.0021	0.00020	0.014	0.0021	0.00020	3.1	0.11	0.010	3.0	0.084	0.0081
1,2-Dichloroethane	ND	0.0021	0.00016	ND	0.0021	0.00016	ND	0.11	0.0078	ND	0.084	0.0063
Trichloroethene	ND	0.0021	0.00030	ND	0.0021	0.00030	ND	0.11	0.015	ND	0.084	0.012
1,2-Dichloropropane	ND	0.0021	0.00038	ND	0.0021	0.00038	ND	0.11	0.019	ND	0.084	0.015
Bromodichloromethane	ND	0.0021	0.00013	ND	0.0021	0.00013	ND	0.11	0.0063	ND	0.084	0.0051
c-1,3-Dichloropropene	ND	0.0021	0.00025	ND	0.0021	0.00025	ND	0.11	0.013	ND	0.084	0.010
4-Methyl-2-Pentanone	ND	0.0021	0.00014	ND	0.0021	0.00014	ND	0.11	0.0071	ND	0.084	0.0057
Toluene	0.021	0.0021	0.00017	0.022	0.0021	0.00017	4.8	0.11	0.0084	4.6	0.084	0.0067
t-1,3-Dichloropropene	ND	0.0021	0.00022	ND	0.0021	0.00022	ND	0.11	0.011	ND	0.084	0.0087
1,1,2-Trichloroethane	ND	0.0021	0.00034	ND	0.0021	0.00034	ND	0.11	0.017	ND	0.084	0.014
1,3-Dichloropropane	ND	0.0021	0.00010	ND	0.0021	0.00010	ND	0.11	0.0052	ND	0.084	0.0042
Tetrachloroethene	ND	0.0021	0.00025	ND	0.0021	0.00025	ND	0.11	0.013	ND	0.084	0.010
2-Hexanone	ND	0.0021	0.00043	ND	0.0021	0.00043	ND	0.11	0.022	ND	0.084	0.017
Dibromochloromethane	ND	0.0021	0.00038	ND	0.0021	0.00038	ND	0.11	0.019	ND	0.084	0.015
1,2-Dibromoethane	ND	0.0021	0.00019	ND	0.0021	0.00019	ND	0.11	0.0096	ND	0.084	0.0077
Chlorobenzene	ND	0.0021	0.00016	ND	0.0021	0.00016	ND	0.11	0.0082	ND	0.084	0.0066
Ethylbenzene	0.0027	0.0021	0.00012	0.0029	0.0021	0.00012	0.54	0.11	0.0061	0.53	0.084	0.0048
p.&m-Xylene	0.019	0.0021	0.00024	0.020	0.0021	0.00024	3.8	0.11	0.012	3.6	0.084	0.0095
o-Xylene	0.010	0.0021	0.00026	0.010	0.0021	0.00026	2.0	0.11	0.013	1.9	0.084	0.010



Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 09/13/17
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	I091307-01			I091307-02			I091307-03			I091307-04		
Client Sample I.D.:	VEFF-09-12			VEFF-09-12D			VPOST-09-12			VINP-09-12		
Date/Time Sampled:	9/12/17 11:30			9/12/17 11:30			9/12/17 11:45			9/12/17 12:00		
Date/Time Analyzed:	9/18/17 21:51			9/18/17 22:33			9/18/17 19:02			9/18/17 19:44		
QC Batch No.:	170918MS2A1			170918MS2A1			170918MS2A1			170918MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.1			110			84		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Styrene	0.00056 J	0.0021	0.00027	0.0011 J	0.0021	0.00027	0.080 J	0.11	0.014	0.078 J	0.084	0.011
Bromoform	ND	0.0021	0.00012	ND	0.0021	0.00012	ND	0.11	0.0059	ND	0.084	0.0047
Isopropyl benzene	0.0015 J	0.0021	0.00022	0.00035 J	0.0021	0.00022	0.058 J	0.11	0.011	0.056 J	0.084	0.0088
1,1,2,2-Tetrachloroethane	ND	0.0042	0.00013	ND	0.0042	0.00013	ND	0.21	0.0064	ND	0.17	0.0052
Benzyl Chloride	ND	0.0021	0.00039	ND	0.0021	0.00039	ND	0.11	0.019	ND	0.084	0.015
1,2,3-Trichloropropane	ND	0.0021	0.00057	ND	0.0021	0.00057	ND	0.11	0.028	ND	0.084	0.023
n-Propyl Benzene	0.00052 J	0.0021	0.00012	0.00065 J	0.0021	0.00012	0.089 J	0.11	0.0061	0.086	0.084	0.0049
4-Ethyl Toluene	0.0068	0.0021	0.00013	0.0072	0.0021	0.00013	1.1	0.11	0.0067	1.1	0.084	0.0053
1,3,5-Trimethylbenzene	0.0041 J	0.0042	0.00036	0.0043	0.0042	0.00036	0.66	0.21	0.018	0.67	0.17	0.015
4-Chlorotoluene	ND	0.0021	0.00025	ND	0.0021	0.00025	ND	0.11	0.013	ND	0.084	0.010
tert-Butylbenzene	ND	0.0021	0.00019	ND	0.0021	0.00019	ND	0.11	0.0095	ND	0.084	0.0076
1,2,4-Trimethylbenzene	0.0048	0.0042	0.00024	0.0054	0.0042	0.00024	0.65	0.21	0.012	0.68	0.17	0.0096
sec-Butylbenzene	ND	0.0021	0.00020	ND	0.0021	0.00020	0.019 J	0.11	0.010	0.017 J	0.084	0.0082
p-Isopropyltoluene	0.00060 J	0.0021	0.00027	0.0032	0.0021	0.00027	0.017 J	0.11	0.014	0.018 J	0.084	0.011
1,3-Dichlorobenzene	ND	0.0021	0.00026	ND	0.0021	0.00026	ND	0.11	0.013	ND	0.084	0.010
1,4-Dichlorobenzene	ND	0.0021	0.00031	ND	0.0021	0.00031	ND	0.11	0.015	ND	0.084	0.012
n-Butylbenzene	ND	0.0021	0.00015	ND	0.0021	0.00015	ND	0.11	0.0077	ND	0.084	0.0062
1,2-Dichlorobenzene	ND	0.0021	0.00026	ND	0.0021	0.00026	ND	0.11	0.013	ND	0.084	0.010
1,2,4-Trichlorobenzene	ND	0.0042	0.00035	ND	0.0042	0.00035	ND	0.21	0.017	ND	0.17	0.014
Hexachlorobutadiene	ND	0.0021	0.00012	ND	0.0021	0.00012	ND	0.11	0.0062	ND	0.084	0.0049
t-Butanol	ND	0.011	0.00040	ND	0.011	0.00040	ND	0.53	0.020	ND	0.42	0.016
n-Hexane	0.033	0.011	0.00028	0.034	0.011	0.00028	11	0.53	0.014	9.9	0.42	0.011
Isopropyl ether	ND	0.011	0.00023	ND	0.011	0.00023	ND	0.53	0.012	ND	0.42	0.0094
t-Butyl ethyl ether	ND	0.011	0.00042	ND	0.011	0.00042	ND	0.53	0.021	ND	0.42	0.017
2,2-Dichloropropane	ND	0.011	0.00020	ND	0.011	0.00020	ND	0.53	0.010	ND	0.42	0.0080
t-Amyl methyl ether	ND	0.011	0.00015	ND	0.011	0.00015	ND	0.53	0.0074	ND	0.42	0.0059
1,4-Dioxane	ND	0.011	0.00037	ND	0.011	0.00037	ND	0.53	0.018	ND	0.42	0.015
Naphthalene	ND	0.011	0.00081	ND	0.011	0.00081	ND	0.53	0.040	ND	0.42	0.032
1,2,3-Trichlorobenzene (TIC)	ND	--	--	ND	--	--	ND	--	--	ND	--	--

MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 9/22/17

The cover letter is an integral part of this analytical report



Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 09/13/17
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	METHOD BLANK														
Client Sample I.D.:	-														
Date/Time Sampled:	-														
Date/Time Analyzed:	9/18/17 15:12														
QC Batch No.:	170918MS2A1														
Analyst Initials:	DT														
Dilution Factor:	0.20														
ANALYTE	Result ppmv	RL ppmv	MDL ppmv												
Dichlorodifluoromethane (12)	ND	0.00020	0.000031												
Chloromethane	ND	0.00040	0.000044												
1,2-CI-1,1,2,2-F ethane (114)	ND	0.00020	0.000040												
Vinyl Chloride	ND	0.00020	0.000032												
Bromomethane	ND	0.00020	0.000059												
Chloroethane	ND	0.00020	0.00017												
Trichlorofluoromethane (11)	ND	0.00020	0.000043												
1,1-Dichloroethene	ND	0.00020	0.000045												
Carbon Disulfide	ND	0.0010	0.000048												
1,1,2-CI 1,2,2-F ethane (113)	ND	0.00020	0.000054												
Acetone	ND	0.0010	0.000058												
Methylene Chloride	ND	0.00020	0.000057												
t-1,2-Dichloroethene	ND	0.00020	0.000060												
1,1-Dichloroethane	ND	0.00020	0.000027												
c-1,2-Dichloroethene	ND	0.00020	0.000039												
2-Butanone	ND	0.00020	0.00012												
t-Butyl Methyl Ether (MTBE)	ND	0.00020	0.000045												
Chloroform	ND	0.00020	0.000028												
1,1,1-Trichloroethane	ND	0.00020	0.000020												
Carbon Tetrachloride	ND	0.00020	0.000035												
Benzene	ND	0.00020	0.000019												
1,2-Dichloroethane	ND	0.00020	0.000015												
Trichloroethene	ND	0.00020	0.000028												
1,2-Dichloropropane	ND	0.00020	0.000036												
Bromodichloromethane	ND	0.00020	0.000012												
c-1,3-Dichloropropene	ND	0.00020	0.000024												
4-Methyl-2-Pentanone	ND	0.00020	0.000013												
Toluene	ND	0.00020	0.000016												
t-1,3-Dichloropropene	ND	0.00020	0.000021												
1,1,2-Trichloroethane	ND	0.00020	0.000032												
1,3-Dichloropropane	ND	0.00020	0.0000099												
Tetrachloroethene	ND	0.00020	0.000024												
2-Hexanone	ND	0.00020	0.000041												
Dibromochloromethane	ND	0.00020	0.000036												
1,2-Dibromoethane	ND	0.00020	0.000018												
Chlorobenzene	ND	0.00020	0.000016												
Ethylbenzene	ND	0.00020	0.000011												
p,&m-Xylene	ND	0.00020	0.000023												
o-Xylene	ND	0.00020	0.000024												



Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 09/13/17
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	METHOD BLANK												
Client Sample I.D.:	-												
Date/Time Sampled:	-												
Date/Time Analyzed:	9/18/17 15:12												
QC Batch No.:	170918MS2A1												
Analyst Initials:	DT												
Dilution Factor:	0.20												
ANALYTE	Result ppmv	RL ppmv	MDL ppmv										
Styrene	ND	0.00020	0.000026										
Bromoform	ND	0.00020	0.000011										
Isopropyl benzene	0.00013 J	0.00020	0.000021										
1,1,2,2-Tetrachloroethane	ND	0.00040	0.000012										
Benzyl Chloride	ND	0.00020	0.000037										
1,2,3-Trichloropropane	ND	0.00020	0.000054										
n-Propyl Benzene	ND	0.00020	0.000012										
4-Ethyl Toluene	ND	0.00020	0.000013										
1,3,5-Trimethylbenzene	ND	0.00040	0.000035										
4-Chlorotoluene	ND	0.00020	0.000024										
tert-Butylbenzene	ND	0.00020	0.000018										
1,2,4-Trimethylbenzene	ND	0.00040	0.000023										
sec-Butylbenzene	ND	0.00020	0.000019										
p-Isopropyltoluene	ND	0.00020	0.000026										
1,3-Dichlorobenzene	ND	0.00020	0.000024										
1,4-Dichlorobenzene	ND	0.00020	0.000029										
n-Butylbenzene	ND	0.00020	0.000015										
1,2-Dichlorobenzene	ND	0.00020	0.000025										
1,2,4-Trichlorobenzene	ND	0.00040	0.000033										
Hexachlorobutadiene	ND	0.00020	0.000012										
t-Butanol	ND	0.0010	0.000038										
n-Hexane	ND	0.0010	0.000027										
Isopropyl ether	ND	0.0010	0.000022										
t-Butyl ethyl ether	ND	0.0010	0.000040										
2,2-Dichloropropane	ND	0.0010	0.000019										
t-Amyl methyl ether	ND	0.0010	0.000014										
1,4-Dioxane	ND	0.0010	0.000035										
Naphthalene	ND	0.0010	0.000077										
1,2,3-Trichlorobenzene (TIC)	ND	-	-										

MDL = Method Detection Limit
 ND = Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 9/22/17

The cover letter is an integral part of this analytical report



Client: CH2M Hill
 Attn: Eric Davis
 Project Name: SFPP Norwalk
 Project No.: NA
 Date Received: 09/13/17
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	I091307-04												
Client Sample I.D.:	VINP-09-12												
Date/Time Sampled:	9/12/17 12:00												
Date/Time Analyzed:	9/15/17 13:08												
QC Batch No.:	170915GC8A1												
Analyst Initials:	AS												
Dilution Factor:	2.1												
ANALYTE	Result % v/v	RL % v/v	MDL % v/v										
Carbon Dioxide	0.89	0.021	0.00089										
Oxygen/Argon	21	1.1	0.077										
Nitrogen	78	2.1	0.31										
Methane	0.0079	0.0021	0.000096										

Results normalized including non-methane hydrocarbons
 MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 9/22/17

The cover letter is an integral part of this analytical report.



