
Final

**Fourth Quarter 2013
Remediation Progress Report and
Annual 2013 Summary
SFPP Norwalk Pump Station
Norwalk, California**

Prepared for
Kinder Morgan Energy Partners, L.P.

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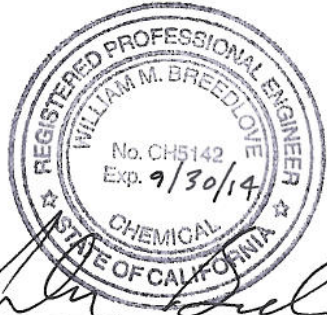
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The material and data presented in this report were prepared consistent with current and generally accepted consulting principles and practices. This work was supervised by the following CH2M HILL licensed professional.



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Acronyms and Abbreviations

µg/L	micrograms per liter
1,2-DCA	1,2-dichloroethane
ASTM	ASTM International (formerly American Society for Testing and Materials)
ATL	Advanced Technology Laboratories
EPA	United States Environmental Protection Agency
FBBR	fluidized bed bioreactor
Geomatrix	Geomatrix Consultants, Inc.
GWE	groundwater extraction
KMEP	Kinder Morgan Energy Partners, L.P.
LGAC	liquid-phase granular activated carbon
MTBE	methyl tertiary butyl ether
NPDES	National Pollutant Discharge Elimination System
O&M	operations and maintenance
OWS	oil-water separator
PID	photoionization detector
ppmv	parts per million by volume
RBCA	Risk-Based Corrective Action
RWQCB	California Regional Water Quality Control Board, Los Angeles Region
SCAQMD	South Coast Air Quality Management District
Second Addendum	Second Addendum to the Remedial Action Plan (Geomatrix, 2006)
SFPP	SFPP, L.P.
SVE	soil vapor extraction
TBA	tertiary butyl alcohol
TFE	total fluids extraction
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

1. Introduction

CH2M HILL has prepared this report on behalf of SFPP, L.P. (SFPP), an operating partnership of Kinder Morgan Energy Partners, L.P. (KMEP), to summarize remediation activities performed at the former SFPP Norwalk Pump Station, located within the Defense Fuel Support Point, at 15306 Norwalk Boulevard, Norwalk, California (the site; Figure 1) during the fourth quarter 2013 reporting period. This report also summarizes remediation activities described in previously submitted, first, second, and third quarter 2013 progress reports, thereby providing a combined fourth quarter 2013 and annual 2013 progress report.

This progress report is submitted pursuant to a request from the California Regional Water Quality Control Board, Los Angeles Region (RWQCB) in its letter dated October 25, 2006 (RWQCB, 2006), and in accordance with the *Second Addendum to the Remedial Action Plan Defense Fuel Support Point* (Second Addendum) dated November 30, 2006 (Geomatrix Consultants, Inc. [Geomatrix], 2006). Implementation of the Second Addendum was approved by the RWQCB on April 2, 2007. Additional background information can be found in the Second Addendum and in previously submitted semiannual groundwater monitoring reports for the site.

This report summarizes the remediation systems present at the site and describes implementation of the Second Addendum for the period of October through December 2013 with documentation of the following tasks:

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

The remediation activities performed during October through December 2013 and the progress achieved through those activities are summarized in the following sections.

2. Remediation Systems

SFPP currently 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 two specific areas at and near the site: the south-central area and the southeastern area. Operation of the West Side Barrier (WSB) GWE system (WSB system) for remediation of the western offsite area was discontinued in August 2008.

Remediation in the south-central and southeastern areas consists of SVE and TFE (GWE is also performed at one well location in the southeastern area). At several well locations, SVE is coupled with TFE (or GWE at two locations) in a process referred to as dual-phase extraction. SVE is performed using a blower to remove soil vapors from the south-central and southeastern areas. The extracted vapors are conveyed to a knock-out tank that separates entrained moisture from the soil vapors. Accumulated moisture in the knock-out tank is treated by the main groundwater treatment system described below. The soil vapors are then preheated in a heat exchanger and treated in a catalytic oxidizer where volatile organic compounds (VOCs) are converted to carbon dioxide and water prior to being discharged to the atmosphere. Operation of the SVE and treatment system is conducted in accordance with Permit to Operate No. F13759 issued by the South Coast Air Quality Management District (SCAQMD).

The main groundwater treatment system handles free product and groundwater recovered from the south-central and southeastern parts of the site. Free product and groundwater recovered by pneumatically operated top-loading total fluids pumps and bottom-loading groundwater pumps are piped to an oil-water separator (OWS). Free product, if any, from the OWS is collected in a storage tank and recycled at an offsite location. Water from the OWS is treated using liquid-phase granular activated carbon (LGAC). Treated water is routed through an onsite 3,000-gallon equalization tank. Two fluidized bed bioreactors (FBBRs) installed downstream of the equalization tank treat fuel oxygenates such as tertiary butyl alcohol (TBA) and methyl tertiary butyl ether (MTBE). The treated groundwater then passes through polishing LGAC units prior to discharge in accordance with a National Pollutant Discharge Elimination System (NPDES) permit (NPDES No. CA0063509, CI No. 7497).

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 fourth quarter 2013. The remediation system layout is presented in Figure 2.

3. Operations and Maintenance

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

- Performed weekly maintenance and monitoring of the south-central and southeastern SVE and TFE/GWE wells, and the SVE and TFE/GWE treatment systems (collectively referred to as remediation systems).
- Replaced the SVE system extraction blower motor.
- Removed, inspected, and made repairs to the TFE/GWE pumps and associated discharge lines.
- Installed TFE/GWE pumps and associated discharge lines in GMW-10 and GMW-O-15.
- Installed a backwash tank and recirculation pump upstream of the bag filter housings on the TFE/GWE system. The backwash tank and pump assembly will allow clean (filtered and treated) water to be used for backwashing. This addition to the treatment system is anticipated to extend the life of the bag filters and granular activated carbon, and reduce the frequency of system shutdowns.
- Drained condensate from offsite SVE conveyance lines on a bi-weekly basis.
- Measured individual well vapor concentrations.
- Collected and analyzed system influent vapor and groundwater samples.
- Performed routine cleanout of the OWS, sump, equalization tank, and transfer tank.
- Performed LGAC changeout for spare and lead carbon vessels of the TFE system.

In addition, system effluent vapor and water samples were collected and analyzed for compliance with the SCAQMD and NPDES permits. The effluent water sampling results were in compliance for the fourth quarter 2013 and will be provided under separate cover in the NPDES effluent monitoring report.

During this reporting period, remediation system inspections were performed on a weekly basis. For these inspections, vapor flow rate, vacuum, volumes of extracted groundwater, hours of operation, and other system parameters were recorded during system operation. Remediation system operation activities for the fourth quarter 2013 are summarized in Tables 2 and 3. The remediation systems operated during the fourth quarter 2013 with the following exceptions:

- The SVE and TFE systems were offline from September 30 to October 8, 2013, to allow groundwater levels to be measured under static conditions for the second semiannual groundwater monitoring event.

- The TFE/GWE system was turned off on October 26, 2013, due to a high transfer tank alarm. Bag filter changeout and LGAC backwash were conducted prior to restarting the TFE/GWE system.
- The TFE/GWE system was turned off on November 5, 2013, to install the backwash tank and recirculation pump upstream of the bag filter housings.
- The TFE/GWE system was turned off on November 21, 2013, for LGAC carbon changeout. The system was restarted the same day.
- The SVE system was down from December 2 to 3, 2013, due to mechanical issues with the SVE system extraction blower motor. A replacement motor was installed on December 3, 2013.
- The SVE system was turned off for 1 to 2 hours on a bi-weekly basis during the fourth quarter 2013 to drain the water from the SVE manifold. The system was restarted on the same day.

A summary of system shutdowns that occurred in each quarter of 2013 is provided in Appendix A.

Overall during the fourth quarter 2013, the SVE system operated 72 percent of the time, while the TFE/GWE system operated approximately 80 percent of the time. Excluding the planned shutdowns of the SVE and TFE/GWE systems, the SVE system operated approximately 85 percent of the time and the TFE/GWE system operated approximately 94 percent of the time during the fourth quarter 2013.

Vapor samples from the SVE system influent and water samples from TFE/GWE system influent were collected during the fourth quarter 2013 when the systems were operating. Influent vapor samples were collected on October 15, November 12, and December 10, 2013. Influent water samples were collected on October 15, November 12, and December 13, 2013. The vapor and water samples were delivered to Advanced Technology Laboratories (ATL) for analysis. ATL is a laboratory certified by the California Department of Public Health Environmental Laboratory Accreditation Program.

ATL analyzed the vapor samples for the following:

- Fixed gases (methane, carbon dioxide, oxygen, and argon) using ASTM International (ASTM) D-1946
- Total petroleum hydrocarbons quantified as gasoline (TPH-g) using United States Environmental Protection Agency (EPA) Method TO-3
- VOCs using EPA Method TO-15

ATL analyzed the water samples for the following:

- TPH-g, TPH quantified as diesel (TPH-d), and TPH quantified as oil (TPH-o) (collectively referred to as TPH-total) using EPA Method 8015(M)
- VOCs using EPA Method 8260B

Analytical results for the influent vapor and water samples are summarized in Tables 4 and 5, respectively. The laboratory analytical reports and chain-of-custody documents for these samples are included in Appendix B.

VOC concentrations in vapors extracted from individual SVE wells were measured in the field using a photoionization detector (PID) calibrated using 50 parts per million by volume (ppmv) of hexane. The individual well vapor readings are summarized in Table 6.

Depths to product and groundwater in the TFE/GWE and SVE wells were measured during the fourth quarter 2013 to the nearest 0.01 foot from the top of the well casing using an interface probe in selected wells. The gauging results are summarized in Table 7.

4. 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 approximately 57,611 pounds during the fourth quarter 2013, for a cumulative mass removal of approximately 148,530 pounds since implementing the Second Addendum system upgrades, and over 3 million pounds since the SVE system began operation in 1995 (Table 2). The cumulative mass removed by SVE does not include the mass removed by biodegradation.

Approximately 1,514,205 gallons of groundwater was extracted during the fourth quarter 2013 (Table 3). No water was extracted from the WSB area during the fourth quarter 2013.

Groundwater extraction 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. Detected concentrations of MTBE and 1,2-DCA in wells west of the site have been below the conservative, site-specific Risk-Based Corrective Action (RBCA) goals (Geomatrix, 1999) since August 2005. The lower (more conservative) RBCA goals for MTBE and 1,2-DCA are 40 micrograms per liter ($\mu\text{g}/\text{L}$) and 70 $\mu\text{g}/\text{L}$, respectively. 1,2-DCA, MTBE, and TBA concentrations in the western area continue to be monitored; other wells in the WSB system will be restarted if necessary.

Removal of free product using TFE continued during the fourth quarter 2013. Because the amount of free product removed by TFE was significantly less than the volume of groundwater extracted, free product was emulsified in the relatively larger volume of groundwater extracted and was not observed to accumulate in the product holding tank of the groundwater treatment system. Therefore, the amount of free product removed by TFE was not estimated.

Based on the TPH-g results for influent water samples and total groundwater extracted, the mass of TPH-g removed by TFE and GWE in the south-central and southeastern areas was approximately 85 pounds during the fourth quarter 2013, for a cumulative mass removed from these areas of approximately 2,121 pounds since implementing the system upgrades described in the Second Addendum (Table 3). During the fourth quarter 2013, the influent water sample was also analyzed for TPH-d and TPH-o. Previous mass removal estimates were underestimated since TPH-d and TPH-o concentrations were not used in the calculation. Based on the TPH-total results (TPH-g, TPH-d, and TPH-o) for the influent water samples and total groundwater extracted from October 1 through December 31, 2013, the mass of TPH-total removed by TFE and GWE in the south-central and southeastern areas was approximately 158 pounds.

5. System Evaluation and Optimization

During the first through fourth quarters of 2013, vapor-phase VOC concentrations for the SVE treatment system were measured in individual wells using a PID, as shown in Table 6. The operational status of the SVE wells for 2013 is also shown in Table 1. PID readings recorded during the second half of 2013 indicated VOC concentrations have significantly increased through clearing condensate in the pipes of the offsite wells. The majority of the individual SVE well PID readings are close to, or higher than, 100 ppmv. The SVE system will be operated until influent VOC concentrations reach low asymptotic levels.

Groundwater monitoring in the WSB region during the second quarter 2013 supports the continued shutdown of GWE in the region. 1,2-DCA, MTBE, and TBA concentrations in the western area will continue to be monitored. The WSB system will be restarted if necessary.

As shown in Table 7, measurable free product was observed in 18 remediation wells during the second semiannual groundwater monitoring event (October and November 2013). This included 16 wells in the south-central area (GMW-9, GMW-10, GMW-22, GMW-24, GMW-25, GMW-O-11, GMW-O-12, GMW-O-20, GMW-O-23, GWR-3, MW-SF-1, MW-SF-2, MW-SF-13, MW-SF-14, MW-SF-15, and MW-SF-16) and two remediation well in the southeastern area (GMW-36 and GMW-O-15). The product thicknesses for these wells ranged from 0.03 foot in GMW-36 and MW-SF-15 to 5.42 feet in MW-SF-1. It is believed that increased product thicknesses observed during the fourth quarter 2013 are indicative of continued declining water levels across the site (Figure 3).

The current low water levels have allowed residual product to drain from pore spaces within the smear zone and collect in certain wells, or increase in thickness in wells with measureable product already present. The water table elevation is related to annual rainfall and the cumulative rainfall over time. The annual average precipitation is approximately 14 inches. As shown in Figure 3, groundwater elevations in the Exposition aquifer were at a historical maximum in 1998 following the 1997/1998 El Niño winter when 31 inches fell, then declined approximately 10 feet through 2004, increased approximately 5 feet after the 2005/2006 El Niño winter when 38 inches fell, and then declined approximately 5 feet to the current low water levels across the site. A similar declining trend in groundwater elevations was observed in the Uppermost aquifer during this timeframe. Continued TFE extraction will remove the product that has accumulated due to these low water levels. The TFE/GWE systems currently consist of 21 wells operated for product recovery and hydraulic control in the south-central part of the site, and 5 wells equipped with TFE pumps operated for product recovery and hydraulic control in the southeastern part of the site (Table 1). At the end of the fourth quarter 2013, there were six TFE wells online from the south-central area (GMW-10, MW-SF-3, MW-SF-6, MW-SF-14, MW-SF-15, and MW-SF-16) and one well from the southeastern area (GMW-SF-9).

6. Planned First Quarter 2014 Activities

During the first quarter 2014, SFPP plans to continue to focus remedial efforts on the south-central and southeastern areas. The following maintenance activities are planned for the first quarter 2014:

- Continue weekly maintenance and monitoring of the south-central and southeastern SVE and TFE/GWE treatment systems.
- Remove, inspect, and repair TFE/GWE pumps and associated discharge lines.
- Measure individual well vapor concentrations.
- Collect and analyze system influent vapor and groundwater samples.
- Install up to two horizontal biosparge wells and ancillary equipment at the site. Pilot testing activities will subsequently commence as outlined in the work plan submitted to the RWQCB on November 18, 2013 (CH2M HILL, 2013).

Concentrations of 1,2-DCA, MTBE, and TBA in the western area will continue to be monitored; the WSB system will be restarted if necessary. 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 first quarter 2014 will be described in the First Quarter 2014 Remediation Progress Report to be submitted by April 15, 2014.

7. References

California Regional Water Quality Control Board, Los Angeles Region (RWQCB). 2006. Letter to Mr. Kola Olowu, Defense Energy Support Center, Los Angeles, and Mr. Michael Pitta, Kinder Morgan Energy Partners; Conditional Approval of Revised Remedial Action Plan and Second Addendum to Remedial Action Plan for the Defense Fuel Support Point Norwalk, 15306 Norwalk Boulevard, Norwalk (SLIC No. 0286A, DOD No. 16638). October 25.

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Geomatrix Consultants, Inc. (Geomatrix). 1999. *Risk-Based Corrective Action, Western 1,2-DCA and MTBE Plumes*. February.

Geomatrix Consultants, Inc. (Geomatrix). 2006. *Second Addendum to the Remedial Action Plan, Defense Fuel Support Point Norwalk, Norwalk, California*. November 30.

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 (ft msl)	Well Screen Interval (ft bgs)	Remediation Well Function	Well Operation Status at End of First Quarter 2013 ¹		Well Operation Status at End of Second Quarter 2013 ¹		Well Operation Status at End of Third Quarter 2013 ¹		Well Operation Status at End of Fourth Quarter 2013 ¹	
						SVE	TFE/GWE	SVE	TFE/GWE	SVE	TFE/GWE	SVE	TFE/GWE
South-Central	MW-SF-1	6/18/1990	78.93	25 - 40	SVE	OFF	--	ON	--	ON	--	ON	--
	MW-SF-2	6/18/1990	78.53	25 - 40	SVE; TFE	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
	MW-SF-3	6/18/1990	78.12	25 - 40	SVE; TFE	ON	ON	ON	ON	ON	OFF	ON	ON
	MW-SF-4	6/19/1990	79.38	25 - 40	SVE	OFF	--	OFF	--	OFF	--	ON	--
	MW-SF-5	9/19/1990	79.74	23 - 38	SVE	OFF	--	OFF	--	OFF	--	ON	--
	MW-SF-6	9/19/1990	76.80	25 - 40	SVE; TFE	ON	OFF	ON	OFF	ON	OFF	ON	ON
	MW-SF-9	6/15/1995	74.10	--	SVE	ON	--	ON	--	ON	--	ON	--
	MW-SF-10	9/23/2003	76.53	10 - 30	SVE	OFF	--	OFF	--	ON	--	ON	--
	MW-SF-11	6/19/2007	78.56	20 - 40	SVE; TFE	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
	MW-SF-12	6/18/2007	78.07	20 - 40	SVE; TFE	ON	OFF	ON	OFF	ON	OFF	ON	OFF
	MW-SF-13	6/19/2007	73.40	20 - 40	SVE; TFE	ON	OFF	ON	OFF	ON	OFF	ON	OFF
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	ON	OFF	ON	ON	ON	ON	ON	ON
	MW-SF-15	6/21/2007	78.27	20 - 40	SVE; TFE	OFF	ON	ON	ON	ON	ON	ON	ON
	MW-SF-16	6/20/2007	78.21	20 - 40	SVE; TFE	ON	ON	ON	ON	ON	ON	OFF	ON
	GMW-9	7/8/1991	77.16	20 - 50	SVE; TFE	OFF	OFF	ON	OFF	ON	OFF	ON	OFF
	GMW-10	7/8/1991	N/A	25 - 50	SVE; TFE	ON	--	ON	--	ON	--	ON	ON
	GMW-22	8/2/1991	77.24	25 - 60	SVE; TFE	ON	OFF	ON	OFF	ON	OFF	ON	OFF
	GMW-24	8/5/1991	77.48	25 - 60	SVE; TFE	ON	OFF	ON	OFF	ON	OFF	ON	OFF
	GMW-25	1/10/1992	78.14	20 - 50	SVE; GWE	ON	OFF	ON	OFF	ON	OFF	ON	OFF
	GWR-3	1/10/1992	77.60	20 - 50	SVE; GWE	OFF	OFF	ON	OFF	ON	OFF	ON	OFF
	VEW-1	--	--	--	SVE	OFF	--	OFF	--	OFF	--	OFF	--
	VEW-2	--	--	--	SVE	OFF	--	OFF	--	OFF	--	OFF	--
	MW-O-1	1/22/1991	75.48	25 - 40	SVE; TFE	ON	OFF	ON	OFF	ON	OFF	ON	OFF
MW-O-2	1/23/1991	71.90	25 - 40	SVE; TFE	ON	OFF	ON	OFF	ON	OFF	ON	OFF	
GMW-O-11	5/20/1992	74.17	20 - 50	SVE; TFE	ON	OFF	ON	OFF	ON	OFF	ON	OFF	
GMW-O-12	5/21/1992	73.49	20 - 50	SVE	ON	--	ON	--	ON	--	ON	--	
GMW-O-20	6/15/1995	73.32	--	SVE; TFE	ON	OFF	ON	OFF	ON	OFF	ON	OFF	
GMW-O-21	10/1/1997	71.43	26 - 46	TFE	--	ON	--	OFF	--	OFF	--	OFF	
GMW-O-23	6/25/2007	73.63	20 - 40	SVE; TFE	ON	OFF	ON	OFF	ON	OFF	ON	OFF	
MW-18 (MID)	6/10/1991	75.67	50 - 60	SVE	ON	--	ON	--	ON	--	ON	--	
HW-1	09/06/92	--	--	SVE	--	--	--	--	--	--	--	--	
HW-2	09/06/92	--	--	SVE	ON	--	ON	--	ON	--	ON	--	
Southeastern	GMW-O-15	4/19/1994	74.23	20 - 50	SVE; TFE	ON	ON	ON	ON	ON	OFF	ON	OFF
	GMW-O-18	7/25/1994	74.36	21 - 40	SVE; TFE	ON	ON	ON	ON	ON	ON	ON	OFF
	GMW-36	4/11/1994	76.66	20 - 50	SVE; TFE	ON	ON	ON	ON	ON	ON	ON	OFF
	GMW-SF-9	4/1/2003	73.05	37 - 46	GWE	--	ON	--	ON	--	ON	--	ON
GMW-SF-10	4/2/2003	75.77	37 - 46	GWE	--	OFF	--	OFF	--	OFF	--	OFF	
West Side Barrier	BW-2	5/20/1996	73.57	27 - 47	GWE	NA	OFF	NA	OFF	NA	OFF	NA	OFF
	BW-3	5/17/1996	74.16	31 - 50	GWE	NA	OFF	NA	OFF	NA	OFF	NA	OFF
	BW-4	5/20/1996	74.61	28 - 47	GWE	NA	OFF	NA	OFF	NA	OFF	NA	OFF
	BW-5	5/23/1996	73.59	27 - 46	GWE	NA	OFF	NA	OFF	NA	OFF	NA	OFF
	BW-6	5/22/1996	73.48	28 - 47	GWE	NA	OFF	NA	OFF	NA	OFF	NA	OFF
	BW-7	5/22/1996	74.65	27 - 46	GWE	NA	OFF	NA	OFF	NA	OFF	NA	OFF
	BW-8	5/21/1996	75.08	27 - 46	GWE	NA	OFF	NA	OFF	NA	OFF	NA	OFF
BW-9	5/21/1996	76.19	27 - 46	GWE	NA	OFF	NA	OFF	NA	OFF	NA	OFF	

Notes

1. Based on information provided by SFPP, L.P.

Abbreviations

- NA = not applicable
- = information not available
- ft msl = feet above mean sea level based on the National Geodetic Vertical Datum of 1929.
- ft bgs = feet below ground surface
- 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 TPH-g Concentration (ppmv) ¹	Influent PID Reading (ppmv as hexane)	System Flow (scfm)	Header Vacuum (inches H ₂ O)	Mass Removed (pounds) ²
2007 Totals³	58,319	2,058	--	--	--	--	3,742
2008 Totals	64,233	5,915	--	--	--	--	5,878
2009 Totals	68,858	4,625	--	--	--	--	9,387
2010 Totals	72,369	3,511	--	--	--	--	1,501
2011 Totals	77,489	5,120	--	--	--	--	14,664
2012 Totals	84,173	6,684	--	--	--	--	22,260
First Quarter 2013 Totals	85,917	1,744	--	--	--	--	10,048
Second Quarter 2013 Totals	87,884	1,967	--	--	--	--	9,824
Third Quarter 2013 Totals	88,643	759	--	--	--	--	13,615
10/4/13	88,643	0	--	--	--	--	0
10/8/13	88,643	0	--	1,330	1560	30	0
10/11/13	88,713	70	--	--	1756	30	2,460
10/15/13	88,808	95	410	734	1907	20	1,987
10/18/13	88,882	74	--	--	1345	50	1,101
10/22/13	88,976	93	--	788	1404	55	1,547
10/25/13	89,049	73	--	--	1453	40	1,258
10/29/13	89,143	94	--	725	1357	55	1,394
11/4/13	89,311	168	--	--	1470	50	2,688
11/5/13	89,311	0	--	710	1369	50	2,083
11/6/13	89,337	25	--	--	1314	50	354
11/8/13	89,384	47	--	--	1357	50	679
11/12/13	89,477	94	430	692	1279	55	1,243
11/15/13	89,546	69	--	--	1334	48	954
11/18/13	89,639	93	--	715	1730	25	1,730
11/22/13	89,710	70	--	--	1748	28	1,320
11/26/13	89,804	94	--	720	1551	35	1,582
12/3/13	89,843	39	--	--	--	--	653
12/6/13	89,846	3	--	3,834	1,733	40	319
12/10/13	89,941	95	910	3,780	1,557	50	8,372
12/13/13	90,008	67	--	--	1,620	--	6,129
12/17/13	90,108	100	--	2,082	1,803	25	5,621
12/20/13	90,179	71	--	--	--	--	3,994
12/24/13	90,273	94	--	1,879	1,661	35	4,402
12/27/13	90,346	74	--	--	--	--	3,447
12/31/13	90,439	93	--	1,605	1,022	30	2,294
Fourth Quarter 2013 Totals	90,439	1,796	--	--	--	--	57,611
Cumulative Mass Removed Since Implementation of RAP Upgrades⁴							148,530

Notes

- The TPH-g concentration reflects analytical results for vapor samples collected from the influent of the vapor remediation system. Refer to Table 4 for a summary of analytical results for influent vapor samples.
- The total mass removed is based on influent FID or PID readings, hours of operation, and flow rate.
- The 2007 total includes only operation after upgrades were made to the south-central system.
- Upgrades to the south-central system are described in the Second Addendum to the Remedial Action Plan (RAP) (Geomatrix, 2006).

Data reported based on information provided by SFPP, L.P.

Abbreviations

TPH-g = total petroleum hydrocarbons quantified as gasoline (C4-C12)
 ppmv = parts per million by volume
 PID = photoionization detector
 FID = flame ionization detector
 scfm = standard cubic feet per minute
 inches H₂O = inches of water
 -- = not applicable or not available

TABLE 3

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-g Concentration (µg/L) ¹	TPH-g Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ²	Influent TPH-total (TPH-g, TPH-d, TPH-o) Concentration (µg/L) ¹	TPH-total Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ²	Product Recovery (gallons)
2007 Totals³	2,610,173	630,877	3,241,050	--	395	--	--	--
2008 Totals	6,092,742	405,954⁴	6,498,696	--	311	--	--	--
2009 Totals	8,815,705	0	8,815,705	--	161	--	--	--
2010 Totals	5,724,835	2,244	5,727,079	--	334	--	--	--
2011 Totals	9,050,541	0	9,050,541	--	398	--	--	--
2012 Totals	7,173,856	0	7,173,856	--	260	--	171	--
First Quarter 2013 Totals	1,771,016	0	1,771,016	--	80	--	208	--
Second Quarter 2013 Totals	1,649,993	0	1,649,993	--	39	--	55	--
Third Quarter 2013 Totals	1,517,182	0	1,517,182	--	58	--	148	42⁶
10/1/2013	10,900	0	10,900	3300	0.30	4,070	0.37	--
10/2/2013	11	0	11	3300	0.00	4,070	0.00	--
10/3/2013	24	0	24	3300	0.00	4,070	0.00	--
10/4/2013	5	0	5	3300	0.00	4,070	0.00	--
10/5/2013	3	0	3	3300	0.00	4,070	0.00	--
10/6/2013	0	0	0	3300	0.00	4,070	0.00	--
10/7/2013	0	0	0	3300	0.00	4,070	0.00	--
10/8/2013	6,528	0	6,528	3300	0.18	4,070	0.22	--
10/9/2013	0	0	0	3300	0.00	4,070	0.00	--
10/10/2013	16,532	0	16,532	3300	0.45	4,070	0.56	--
10/11/2013	18,091	0	18,091	3300	0.50	4,070	0.61	--
10/12/2013	17,407	0	17,407	3300	0.48	4,070	0.59	--
10/13/2013	17,562	0	17,562	3300	0.48	4,070	0.60	--
10/14/2013	17,067	0	17,067	3300	0.47	4,070	0.58	--
10/15/2013	14,617	0	14,617	3300	0.40	4,070	0.50	--
10/16/2013	13,707	0	13,707	3300	0.38	4,070	0.46	--
10/17/2013	14,908	0	14,908	3300	0.41	4,070	0.51	--
10/18/2013	21,998	0	21,998	3300	0.60	4,070	0.75	--
10/19/2013	22,465	0	22,465	3300	0.62	4,070	0.76	--
10/20/2013	25,312	0	25,312	3300	0.69	4,070	0.86	--
10/21/2013	25,425	0	25,425	3300	0.70	4,070	0.86	--
10/22/2013	25,215	0	25,215	3300	0.69	4,070	0.85	--
10/23/2013	23,341	0	23,341	3300	0.64	4,070	0.79	--
10/24/2013	24,801	0	24,801	3300	0.68	4,070	0.84	--
10/25/2013	24,352	0	24,352	3300	0.67	4,070	0.83	--
10/26/2013	25,389	0	25,389	3300	0.70	4,070	0.86	--
10/27/2013	17,867	0	17,867	3300	0.49	4,070	0.61	--
10/28/2013	15,412	0	15,412	3300	0.42	4,070	0.52	--
10/29/2013	27,307	0	27,307	3300	0.75	4,070	0.93	--
10/30/2013	27,421	0	27,421	3300	0.75	4,070	0.93	--
10/31/2013	27,851	0	27,851	3300	0.76	4,070	0.94	--
11/1/2013	26,139	0	26,139	5600	1.22	9,290	2.02	--
11/2/2013	18,915	0	18,915	5600	0.88	9,290	1.46	--
11/3/2013	17,969	0	17,969	5600	0.84	9,290	1.39	--
11/4/2013	19,994	0	19,994	5600	0.93	9,290	1.55	--
11/5/2013	20,865	0	20,865	5600	0.97	9,290	1.61	--

TABLE 3

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-g Concentration (µg/L) ¹	TPH-g Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ²	Influent TPH-total (TPH-g, TPH-d, TPH-o) Concentration (µg/L) ¹	TPH-total Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ²	Product Recovery (gallons)
11/6/2013	10,107	0	10,107	5600	0.47	9,290	0.78	--
11/7/2013	9,370	0	9,370	5600	0.44	9,290	0.73	--
11/8/2013	26,168	0	26,168	5600	1.22	9,290	2.03	--
11/9/2013	23,058	0	23,058	5600	1.07	9,290	1.78	--
11/10/2013	19,653	0	19,653	5600	0.92	9,290	1.52	--
11/11/2013	23,749	0	23,749	5600	1.11	9,290	1.84	--
11/12/2013	23,584	0	23,584	5600	1.10	9,290	1.83	--
11/13/2013	16,021	0	16,021	5600	0.75	9,290	1.24	--
11/14/2013	1,908	0	1,908	5600	0.09	9,290	0.15	--
11/15/2013	174	0	174	5600	0.01	9,290	0.01	--
11/16/2013	18,058	0	18,058	5600	0.84	9,290	1.40	--
11/17/2013	37,417	0	37,417	5600	1.74	9,290	2.90	--
11/18/2013	36,936	0	36,936	5600	1.72	9,290	2.86	--
11/19/2013	30,116	0	30,116	5600	1.40	9,290	2.33	--
11/20/2013	22,743	0	22,743	5600	1.06	9,290	1.76	--
11/21/2013	31,354	0	31,354	5600	1.46	9,290	2.43	--
11/22/2013	29,800	0	29,800	5600	1.39	9,290	2.31	--
11/23/2013	22,641	0	22,641	5600	1.05	9,290	1.75	--
11/24/2013	17,410	0	17,410	5600	0.81	9,290	1.35	--
11/25/2013	17,257	0	17,257	5600	0.80	9,290	1.34	--
11/26/2013	16,536	0	16,536	5600	0.77	9,290	1.28	--
11/27/2013	17,916	0	17,916	5600	0.83	9,290	1.39	--
11/28/2013	23,727	0	23,727	5600	1.10	9,290	1.84	--
11/29/2013	16,868	0	16,868	5600	0.79	9,290	1.31	--
11/30/2013	15,169	0	15,169	5600	0.71	9,290	1.17	--
12/1/2013	16,015	0	16,015	12500	1.66	26,900	3.59	--
12/2/2013	12,735	0	12,735	12500	1.32	26,900	2.85	--
12/3/2013	12,491	0	12,491	12500	1.30	26,900	2.80	--
12/4/2013	5,558	0	5,558	12500	0.58	26,900	1.25	--
12/5/2013	21,812	0	21,812	12500	2.27	26,900	4.89	--
12/6/2013	13,010	0	13,010	12500	1.35	26,900	2.92	--
12/7/2013	11,868	0	11,868	12500	1.23	26,900	2.66	--
12/8/2013	10,638	0	10,638	12500	1.11	26,900	2.38	--
12/9/2013	9,691	0	9,691	12500	1.01	26,900	2.17	--
12/10/2013	9,789	0	9,789	12500	1.02	26,900	2.19	--
12/11/2013	10,299	0	10,299	12500	1.07	26,900	2.31	--
12/12/2013	14,939	0	14,939	12500	1.55	26,900	3.35	--
12/13/2013	19,594	0	19,594	12500	2.04	26,900	4.39	--
12/14/2013	20,771	0	20,771	12500	2.16	26,900	4.65	--
12/15/2013	18,244	0	18,244	12500	1.90	26,900	4.09	--
12/16/2013	17,958	0	17,958	12500	1.87	26,900	4.02	--
12/17/2013	16,070	0	16,070	12500	1.67	26,900	3.60	--
12/18/2013	12,018	0	12,018	12500	1.25	26,900	2.69	--
12/19/2013	7,569	0	7,569	12500	0.79	26,900	1.70	--
12/20/2013	7,416	0	7,416	12500	0.77	26,900	1.66	--

TABLE 3

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-g Concentration (µg/L) ¹	TPH-g Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ²	Influent TPH-total (TPH-g, TPH-d, TPH-o) Concentration (µg/L) ¹	TPH-total Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ²	Product Recovery (gallons)
12/21/2013	10,176	0	10,176	12500	1.06	26,900	2.28	--
12/22/2013	13,927	0	13,927	12500	1.45	26,900	3.12	--
12/23/2013	12,988	0	12,988	12500	1.35	26,900	2.91	--
12/24/2013	11,828	0	11,828	12500	1.23	26,900	2.65	--
12/25/2013	13,462	0	13,462	12500	1.40	26,900	3.02	--
12/26/2013	15,815	0	15,815	12500	1.64	26,900	3.54	--
12/27/2013	15,245	0	15,245	12500	1.58	26,900	3.42	--
12/28/2013	15,009	0	15,009	12500	1.56	26,900	3.36	--
12/29/2013	15,355	0	15,355	12500	1.60	26,900	3.44	--
12/30/2013	15,024	0	15,024	12500	1.56	26,900	3.37	--
12/31/2013	13,751	0	13,751	12500	1.43	26,900	3.08	--
Fourth Quarter 2013 Totals	1,514,205	0	1,514,205	--	85	--	158	--
Cumulative TPH-g Removed Since Implementation of RAP Upgrades⁵					2,121		741	--

Notes

- The TPH-g and TPH-total concentration reflects analytical results for samples collected from the influent of the total fluids extraction (TFE) system that extracts groundwater from the south-central, southeastern, and West Side Barrier areas. Refer to Table 5 for a summary of analytical results for the groundwater samples. For a given period, the most recent analytical result available is used to calculate TPH-g and TPH-total removed.
- Mass of TPH-g and TPH-total removed (pounds) is based on concentrations of dissolved TPH-g or TPH-total in the most recent TFE system influent samples and the volume of groundwater extracted by TFE.
- The 2007 total includes only operation after upgrades were made to the south-central system.
- Groundwater removal in the West Side Barrier area was discontinued in August 2008. 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.
- Upgrades to the south-central remediation system are described in the Second Addendum to the Remedial Action Plan (RAP) (Geomatrix, 2006).
- Estimated quantity; includes 20 gallons removed during well rehabilitation activities at GMW-10, plus 22 gallons accumulated in the product recovery tank.

Data reported based on information provided by SFPP, L.P.

Abbreviations

TPH-g = total petroleum hydrocarbons quantified as gasoline (C4-C12)
 TPH-d = total petroleum hydrocarbons quantified as diesel (C13-C22)
 TPH-o = total petroleum hydrocarbons quantified as oil (C23-C36)
 TPH-total = total petroleum hydrocarbons quantified as gas, diesel, and oil (C4-C36)
 µg/L = micrograms per liter

TABLE 4

Extracted Vapor Analytical Results¹
 SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	Total Fluids Extraction System Status	ASTM D-1946			EPA TO-3	EPA TO-15 (VOCs) ²				
		Methane (%v)	Carbon Dioxide (%v)	Oxygen and Argon (%v)	TPH-g (ppmv)	Benzene (ppbv)	Ethylbenzene (ppbv)	Toluene (ppbv)	Xylenes (ppbv)	MTBE (ppbv)
8/3/2007	ON	<0.5	<0.5	22.0	63	650	220	1,100	1,420	55
9/5/2007	OFF	<0.5	<0.5	22.0	9	32	48	140	320	18
10/2/2007	ON	<0.5	<0.5	21.9	27	250	75	430	610	20
11/2/2007	ON	<0.5	<0.5	22.1	5	40	10	74	95	7
2/1/2008	ON	<0.5	<0.5	21.8	100	830	260	2,200	1,850	<50
3/4/2008	ON	<0.5	<0.5	21.7	50	380	98	570	1,250	36
4/8/2008	OFF	<0.5	<0.5	22.2	69	290	110	480	1,040	41
5/23/2008	OFF	<0.5	<0.5	21.8	14	180	24	190	280	23
6/3/2008	OFF	<0.5	<0.5	21.7	30	380	42	400	330	70
7/2/2008	ON	<0.5	<0.5	21.4	49	32	6	34	45	10
8/19/2008	ON	<0.5	1.7	20.8	50	390	63	230	450	40
9/5/2008	ON	<0.5	2.0	21.2	22	130	39	130	340	42
10/7/2008	ON	<0.5	1.43	21.4	10	41	15	54	181	6.8
11/4/2008	ON	<0.5	2.08	21.1	7.5	31	47	190	242	<2.0
3/6/2009	ON	<0.5	<0.5	22.0	83	1,900	180	990	770	240
4/17/2009	ON	<0.5	<0.5	22.2	3.1	140	8	37	68	26
5/29/2009	ON	<0.5	1.08	21.0	130	1,700	640	3,700	3,100	100
8/18/2009	ON	<0.5	0.78	21.7	28	380	37	290	310	33
8/25/2009	ON	<0.5	0.87	20.6	37	500	44	320	293	20
9/18/2009	ON	<0.5	0.37	21.6	11	75	11	39	107	3
10/29/2009	ON	<0.5	1.80	18.2	77	350	45	250	440	4
11/25/2009	ON	<0.5	<0.5	21.1	14	110	12	110	164	11
12/15/2009	OFF	<0.5	<0.5	21.7	7	28	3	20	47	<3.2
2/26/2010	ON	<0.5	0.4	21.2	20	300	18	220	260	21
3/26/2010	ON	<0.5	1.0	20.2	18	380	20	110	90	5
5/4/2010	ON	<0.5	0.4	21.4	13	100	42	170	222	3
6/29/2010	ON	<0.5	0.4	21.3	9	74	13	66	82	<5.0
8/3/2010	ON	<0.5	0.6	20.4	29	210	13	64	85	9
8/31/2010	ON	0.0039 ³	<0.5	21.4	11	72	12	66	87	8
9/14/2010	ON	<0.5	<0.5	21.6	6	63	15	57	84	<3.2
11/2/2010	ON	--	--	--	11	140	<10	31	28	<10
11/17/2010	ON	0.00075	0.4	22.0	--	--	--	--	--	--
12/28/2010	ON	0.0052	0.27	22.0	16	160	37	230	324	4.5
1/14/2011	ON	0.016	0.20	22.0	68	340	34	89	183	<10
2/8/2011	ON	0.026	0.24	21.0	210	3,000	1,700	11,000	7,400	110
3/29/2011	ON	0.013	0.13	20.0	5	170	15	18	41.5	<2.5
4/26/2011	ON	0.0011	0.079	20.0	1.9	16	2.4	8.8	7.7	<1.2
5/17/2011	ON	0.021	0.65	22.0	90	2,600	140	2,200	1,100	220
6/17/2011	ON	0.001	0.20	22.0	3	59	8.1	31	56	<0.25
7/19/2011	ON	0.0056	0.49	22.0	80	1,800	130	2,200	1,000	<31
8/16/2011	ON	0.0026	0.31	22.0	140	3,000	600	4,000	2,330	490
9/20/2011	ON	--	--	--	100	2,100	740.0	2,700	2,040	660.0
11/22/2011	ON	0.070	0.70	20.0	11	150	12.0	67	35	<5.0
12/20/2011	ON	0.020	0.34	22.0	0	110	<25	260	216	<25
1/10/2012	ON	0.010	0.66	20.0	11	150	14	86	160	<12
2/28/2012	ON	0.0067	0.90	20.0	27	140	42	140	224	<25
3/13/2012	ON	0.0044	0.71	20.0	27	440	38	450	241	<25
4/27/2012	ON	0.0290	0.22	21.0	39	540	42	630	299	<25
5/22/2012	ON	0.0100	0.31	20.0	65	590	350	770	2,070	<12
6/19/2012	ON	0.0028	0.41	21.0	17	130	26	150	162	<12
7/27/2012	ON	0.0059	0.40	21.0	13	46	<5	33	78	<5
8/30/2012	ON	0.0049	0.56	21.0	69	150	<25	66	194	<25
9/25/2012	ON	0.0073	0.80	21.0	57	190	19	120	283	<2.5
10/30/2012	ON	0.0099	0.96	21.0	50	380	<50	230	130	<50
12/11/2012	ON	0.0074	0.84	21.0	53	130	17	110	173	<5.0
1/29/2013	ON	0.0028	0.29	22.0	1.4	8.7	<1.2	9.4	9.6	<1.2
2/12/2013	ON	0.0057	0.88	21.0	60	500	<50	440	400	<50
3/19/2013	ON	0.0058	0.80	21.0	77	560	66	490	520	<40
4/16/2013	ON	0.0079	0.74	21.0	53	430	29	240	193	<25
5/14/2013	ON	0.017	1.6	19	280	1700	190	1800	840	<12
6/28/2013	ON	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	ON	0.014	1	21	590	4200	520	3600	2830	<40
10/15/2013	ON	0.011	0.68	21	410	3500	360	2800	1970	<20
11/12/2013	ON	0.012	0.66	21	430	2900	440	2600	1930	<15
12/10/2013	ON	0.013	0.92	21	910	8400	920	7200	5500	<50

Notes

- Influent vapor samples were collected from the manifold conveying soil vapors extracted from the south-central and southeastern areas.
- Other detected VOCs are included in the laboratory analytical reports in Appendix B.
- Method used is South Coast Air Quality Management District (SCAQMD) 25.1M.

Abbreviations

ASTM = ASTM International (formerly American Society for Testing and Materials)
 EPA = United States Environmental Protection Agency
 VOC = volatile organic compound
 %v = percent by volume
 TPH-g = total petroleum hydrocarbons quantified as gasoline (C4-C12)
 ppmv = parts per million by volume
 ppbv = parts per billion by volume
 MTBE = methyl tertiary butyl ether
 <0.5 = not detected at or above the laboratory reporting limit shown

TABLE 5

Extracted Groundwater Analytical Results¹
 SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ²								
	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)
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 ³	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	--	--	--	--
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

TABLE 5

Extracted Groundwater Analytical Results¹
 SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ²									
	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)	
7/27/2011	14,000	10,000	44J	--	-- ⁴	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	
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	

Notes

- Influent samples were collected from the manifold conveying groundwater extracted from the south-central, southeastern, and West Side Barrier areas.
- Other detected VOCs are included in the laboratory analytical reports in Appendix B.
- TPH-fp result from influent extracted groundwater sample collected on July 10, 2008.
- July 27, 2011, sample and samples after July 20, 2012, were analyzed for TPH-g, TPH-d, and TPH-o.

Abbreviations

TPH-g = total petroleum hydrocarbons quantified as gasoline (C4-C12)
 TPH-fp = total petroleum hydrocarbons quantified as fuel products (C7-C28)
 TPH-d = total petroleum hydrocarbons quantified as diesel (C13-C22)
 TPH-o = total petroleum hydrocarbons quantified as oil (C23-C36)
 TPH-total = total petroleum hydrocarbons quantified as gas, diesel, and oil (C4-C36)
 MTBE = methyl tertiary butyl ether
 µg/L = micrograms per liter
 -- = not analyzed
 <500 = Not detected at or above the laboratory reporting limit (RL) shown
 J = Analyte was detected above the laboratory method detection limit and below the laboratory RL

TBA = tertiary butyl alcohol
 DIPE = di-isopropyl ether
 ETBE = ethyl tertiary butyl ether
 TAME = tertiary amyl methyl ether

TABLE 6
Remediation Well Vapor Concentrations
SFPP Norwalk Pump Station, Norwalk, California

Remediation Area	Remediation Well ID	Remediation Well Function	1/18/2013 (ppmv as Hexane) ¹	3/12/2013 (ppmv as Hexane) ¹	4/18/2013 (ppmv as Hexane) ¹	5/22/13 (ppmv as Hexane) ¹	6/20/13 (ppmv as Hexane) ¹	July and August 2013 SVE Under Repair	9/17/13 (ppmv as Hexane) ¹	10/21/13 (ppmv as Hexane) ¹	12/31/13 (ppmv as Hexane) ³
South-Central	MW-SF-1	SVE	20	16	0.6	14.3	204	--	330	298	227
	MW-SF-2	SVE; TFE	0	20	1.1	2.75	24	--	42	294	193
	MW-SF-3	SVE; TFE	318	222	67.5	368.3	604	--	588	970	1,711
	MW-SF-4	SVE	0	16	5.4	15.75	12	--	36	188	78
	MW-SF-5	SVE	4	12	0.4	5.3	0	--	0	16	61
	MW-SF-6	SVE; TFE	154	92	27.3	4.8	444	--	1056	2830	7,920
	MW-SF-9	SVE	54	78	14.2	49.55	54	--	146	41.1	223
	MW-SF-10	SVE	12	12	3	40.1	0	--	96	116	33
	MW-SF-11	SVE; TFE	-- ³	-- ³	-- ²	460	28	--	88	1078	16
	MW-SF-12	SVE; TFE	-- ³	4,758	92.4	4378	1548	--	>5000	>5000	10,000
	MW-SF-13	SVE; TFE	-- ³	96	10.3	102.1	226	--	658	1212	110
	MW-SF-14	SVE; TFE	-- ³	108	10	35.55	158	--	600	1380	116
	MW-SF-15	SVE; TFE	46	58	12.4	677.5	902	--	1352	792	104
	MW-SF-16	SVE; TFE	188	368	73.6	884.2	600	--	1536	2570	1,828
	GMW-9	SVE; TFE	4	22	20.5	--	642	--	1646	1726	3,459
	GMW-10	SVE	242	844	86.8	--	536	--	966	1108	1,667
	GMW-22	SVE; TFE	4	22	--	--	642	--	1646	1726	3,459
	GMW-24	SVE; TFE	226	532 ³	200	1025	1096	--	2422	2712	10,000
	GMW-25	SVE; GWE	226	532 ³	200	793.2	1096	--	2422	2712	10,000
	GWR-3	SVE; GWE	-- ³	42 ³	320	6400	1968	--	3590	2734	Water
	VEW-1	SVE	-- ³	16	0.1	1.15	0	--	12	28	25
	VEW-2	SVE	8	20	1.4	13.7	0	--	0	62	38
	MW-O-1	SVE; TFE	-- ³	134	-- ²	50.9	88	--	974	760	1,477
	MW-O-2	SVE; TFE	8	54	2.4	--	36	--	280	306	393
	GMW-O-11	SVE; TFE	364	12	0.2	--	16	--	84	96	21
	GMW-O-12	SVE	12	20	0.2	--	0	--	24	650	59
GMW-O-20	SVE; TFE	116	16	0.6	--	12	--	92	4132	4,929	
GMW-O-23	SVE; TFE	-- ³	100	2.4	--	856	--	2258	>5000	185	
MW-18 (MID)	SVE	-- ³	50	3.1	50.2	100	--	96	150	397	
HW-1	SVE	--	--	--	--	196	--	746	340	1,040	
HW-2	SVE	108	130	111.3	932.6	322	--	1578	1050	1,039	
Southeastern	GMW-36	SVE; TFE	-- ³	66	--	--	32	--	28	410	323
	GMW-O-15	SVE; TFE	-- ³	66	1	4.95	32	--	28	410	323
	GMW-O-18	SVE; TFE	-- ³	66	1	917.8	32	--	28	410	323

Notes

- Vapor readings measured in the field with an Eagle 2 photoionization detector (PID) calibrated using 50 ppmv of hexane.
 - Condensate was in the conveyance pipe when PID readings were collected.
 - Vapor readings measured in the field with an Ultra Rae 3000 PID Serial No. 596901221 calibrated using 50 ppmv of hexane.
- = does not apply or was not measured

Data reported based on information provided by SFPP, L.P.

Abbreviations

- SVE = soil vapor extraction
- TFE = total fluids extraction
- GWE = groundwater extraction
- ppmv = parts per million by volume

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 (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
GMW-9	8/8/2008	74.44	28.01	27.96	0.05	---	Envent
	10/16/2008	74.44	28.36	28.35	0.01	---	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
	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
	10/10/2011	74.44	28.91	---	---	45.53	Blaine Tech
	4/16/2012	77.16	31.15	---	---	46.01	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	45.26	Blaine Tech	
GMW-10	04/30/2007	74.67	---	25.9	---	48.77	Secor
	11/12/2007	74.67	25.02	25.82	0.83	---	Secor
	04/14/2008	74.67	25.38	25.44	0.06	---	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	27.2	---	---	47.47	Blaine Tech
	5/24/2010	74.67	26.72	---	---	47.95	Blaine Tech
	5/28/2010	74.67	26.7	---	---	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	---	---	46.2	Blaine Tech
	10/15/2012	74.67	29.15	29.02	0.13	---	Blaine Tech
4/8/2013	74.67	33.64	28.12	5.52	45.67	Blaine Tech	
9/26/2013	N/A	36.15	29.25	6.9	---	CH2M HILL	
10/7/2013	N/A	31.85	29.32	2.53	---	Blaine Tech	
GMW-22	11/12/2007	74.17	26.45	25.91	0.54	---	Stantec
	8/12/2008	74.17	26.70	---	---	47.47	Envent
	10/31/2008	74.17	28.25	27.04	1.21	---	Envent
	11/4/2008	74.17	26.97	---	---	47.20	Envent
	12/17/2008	74.17	26.65	---	---	47.52	Envent
	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	---	Envent
	7/21/2009	74.17	27.70	---	---	46.47	Envent
	11/6/2009	74.17	28.12	---	---	46.05	Kinder Morgan
	9/3/2010	74.17	28.36	25.10	3.26	---	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	77.24	31.15	---	---	46.09	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	45.17	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 (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
GMW-24	11/12/2007	74.04	27.50	27.46	0.04	---	Stantec
	8/19/2008	74.04	29.34	28.24	1.10	---	Envent
	10/17/2008	74.04	30.88	29.90	0.98	---	Envent
	10/21/2008	74.04	29.64	28.30	1.34	---	Envent
	12/18/2008	74.04	29.04	---	---	45.00	Envent
	1/15/2009	74.04	30.56	29.80	0.76	---	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
	2/4/2010	74.04	29.67	29.40	0.27	---	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	77.48	30.49	30.31	0.18	---	Blaine Tech
10/15/2012	77.48	31.34	---	---	46.14	Blaine Tech	
6/14/2013	77.48	33.35	32.40	0.95	44.13	Blaine Tech	
10/7/2013	77.48	35.42	31.61	3.81	45.26	Blaine Tech	
GMW-25	11/12/2007	74.29	27.30	27.25	0.05	---	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	78.14	30.31	---	---	47.83	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	45.02	Blaine Tech	
GMW-36	8/28/2007	74.53	24.31	---	---	50.22	Stantec
	11/12/2007	74.53	24.86	24.85	0.01	---	Stantec
	2/19/2008	74.53	25.50	---	---	49.27	Stantec
	4/14/2008	74.53	24.61	---	---	50.16	Stantec
	8/8/2008	74.53	26.20	26.14	0.06	---	Envent
	10/16/2008	74.53	26.11	26.09	0.02	---	Envent
	12/18/2008	74.53	28.70	28.65	0.05	---	Envent
	1/15/2009	74.53	27.73	27.45	0.28	---	Envent
	2/20/2009	74.53	26.39	26.35	0.04	---	Envent
	2/23/2009	74.53	26.13	25.80	0.33	---	Blaine Tech
	3/24/2009	74.53	29.83	---	---	44.70	Envent
	4/20/2009	74.53	25.63	25.59	0.04	---	Blaine Tech
	7/17/2009	74.53	27.40	---	---	47.13	Envent
	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	---	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 (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	2/4/2010	74.53	26.93	26.80	0.13	---	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	---	Blaine Tech
	5/28/2010	74.53	25.94	25.88	0.06	---	Blaine Tech
	6/22/2010	74.53	25.94	25.91	0.03	---	Blaine Tech
	10/24/2010	74.53	26.90	---	---	47.63	Blaine Tech
	11/23/2010	74.53	27.35	27.10	0.25	---	Blaine Tech
	12/22/2010	74.53	28.35	26.84	1.51	---	Blaine Tech
	1/10/2011	74.53	29.10	27.70	1.40	--	Blaine Tech
	4/12/2011	74.53	26.98	25.05	1.93	--	Blaine Tech
	10/10/2011	74.53	25.96	---	---	48.57	Blaine Tech
	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
	4/16/2012	74.53	27.34	---	---	47.19	Blaine Tech
	6/15/2012	76.66	33.27	---	---	43.39	Blaine Tech
	7/9/2012	76.66	33.71	---	---	42.95	Blaine Tech
	10/15/2012	76.66	32.11	---	---	44.55	Blaine Tech
	11/29/2012	76.66	33.93	31.68 ¹	2.25 ¹	---	Blaine Tech
	12/26/2012	76.66	34.86	30.36 ¹	4.5 ¹	---	Blaine Tech
	1/14/2013	76.66	34.12	30.42 ¹	3.7 ¹	---	Blaine Tech
	4/10/2013	76.66	32.42	29.75	2.67	44.24	Blaine Tech
	10/7/2013	76.66	34.65	30.72	3.93	45.31	Blaine Tech
GMW-O-11	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	---	Envent
	2/24/2009	74.17	24.31	24.21	0.10	---	Envent
	3/27/2009	74.17	31.08	---	---	43.09	Envent
	4/21/2009	74.17	25.36	25.34	0.02	---	Envent
	7/21/2009	74.17	26.18	---	---	47.99	Envent
	11/6/2009	74.17	26.33	26.18	0.15	---	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
	10/15/2012	74.17	28.12	---	---	46.05	Blaine Tech
	9/24/2013	74.17	31.25	28.15	3.10	---	CH2M HILL
	10/7/2013	74.17	31.19	27.69	3.5	45.92	
GMW-O-12	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	---	Blaine Tech
	1/10/2011	73.49	26.42	26.32	0.10	---	Blaine Tech
	4/11/2011	73.49	24.04	---	---	49.45	Blaine Tech
	10/10/2011	73.49	24.68	---	---	48.81	Blaine Tech
	1/9/2012	73.49	25.12	---	---	48.37	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 (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	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	---	Blaine Tech
	4/8/2013	73.49	26.60	26.51	0.09	46.89	Blaine Tech
	9/24/2013	73.49	27.90	27.74	0.16	---	CH2M HILL
	10/7/2013	73.49	27.34	27.28	0.06	46.20	Blaine Tech
GMW-O-15	11/12/2007	74.23	23.95	23.85	0.10	---	Stantec
	4/14/2008	74.23	23.64	---	---	50.59	Stantec
	8/8/2008	74.23	24.60	---	---	50.59	Envent
	8/11/2008	74.23	24.40	24.34	0.06	---	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
	2/23/2009	74.23	24.76	24.74	0.02	---	Blaine Tech
	3/24/2009	74.23	25.55	---	---	48.68	Envent
	4/20/2009	74.23	24.66	24.61	0.05	---	Blaine Tech
	7/17/2009	74.23	25.01	---	---	49.22	Envent
	7/22/2009	74.23	24.99	24.94	0.05	---	Blaine Tech
	10/19/2009	74.23	25.55	25.43	0.12	---	Blaine Tech
	2/4/2010	74.23	25.50	25.48	0.02	---	Kinder Morgan
	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
	10/4/2010	74.23	25.85	25.80	0.05	---	Blaine Tech
	11/23/2010	74.23	53.17	---	---	21.06	Blaine Tech
	12/22/2010	74.23	26.31	---	---	47.92	Blaine Tech
	1/10/2011	74.23	25.97	---	---	48.26	Blaine Tech
	4/12/2011	74.23	22.55	22.53	0.02	---	Blaine Tech
	10/10/2011	74.23	23.79	23.22	0.57	---	Blaine Tech
	12/2/2011	74.23	23.92	23.86	0.06	---	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	31.18	---	---	43.05	Blaine Tech
	3/28/2012	74.23	30.30	---	---	43.93	Blaine Tech
	4/16/2012	74.23	26.56	26.51	0.05	---	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
	9/26/2012	74.23	30.64	---	---	43.59	Blaine Tech
	10/15/2012	74.23	31.82	---	---	42.41	Blaine Tech
	12/26/2012	74.23	27.41	---	---	46.82	Blaine Tech
	1/14/2013	74.23	27.62	---	---	46.61	Blaine Tech
	4/26/2013	74.23	27.90	---	---	46.33	Kinder Morgan
	10/7/2013	74.23	29.03	28.26	0.77	45.85	Blaine Tech
GMW-O-18	04/30/2007	74.36	24.21	---	---	50.15	Secor
	11/12/2007	74.36	22.46	---	---	51.90	Secor
	04/14/2008	74.36	24.5	---	---	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

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 (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	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
	10/4/2010	74.36	29.95	---	---	44.41	Blaine Tech
	4/12/2011	74.36	22.88	---	---	51.48	Blaine Tech
	10/10/2011	74.36	23.68	---	---	50.68	Blaine Tech
	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
	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
	9/26/2012	74.36	30.83	---	---	43.53	Blaine Tech
	10/15/2012	74.36	29.73	---	---	44.63	Blaine Tech
	12/26/2012	74.36	28.87	---	---	45.49	Blaine Tech
	1/14/2013	74.36	28.92	---	---	45.44	Blaine Tech
	4/10/2013	74.36	28.1	---	---	46.26	Blaine Tech
	10/7/2013	74.36	26.67	---	---	47.69	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	---	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
	11/9/2009	73.32	25.60	25.40	0.20	---	Kinder Morgan
	6/22/2010	73.32	24.76	24.66	0.10	---	Blaine Tech
	10/4/2010	73.32	31.20	31.10	0.10	---	Blaine Tech
	1/10/2011	73.32	26.62	26.48	0.14	---	Blaine Tech
	4/11/2011	73.32	23.82	---	---	49.50	Blaine Tech
	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	---	Blaine Tech
	1/14/2013	73.32	32.98	32.93	0.05	---	Blaine Tech
	4/8/2013	73.32	29.63	26.46	3.17	43.69	Blaine Tech
	9/24/2013	73.32	31.10	27.20	3.90	---	CH2M HILL
	10/7/2013	73.32	32.09	27.06	5.03	45.46	Blaine Tech
GMW-O-21	12/28/2007	71.43	27.67	---	---	43.76	Geomatrix
	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
	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

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 (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	10/15/2012	71.43	32.50	---	---	38.93	Blaine Tech
	9/25/2013	71.43	29.25	---	---	42.18	CH2M HILL
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
	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
	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
	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	43.82	Blaine Tech	
9/23/2013	73.63	29.90	---	---	43.73	CH2M HILL	
10/7/2013	73.63	32.86	28.3	4.56	44.60	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
	10/10/2011	73.00	24.70	---	---	48.30	Blaine Tech
	4/16/2012	73.05	26.99	---	---	46.06	Blaine Tech
	10/15/2012	73.05	34.21	---	---	38.84	Blaine Tech
4/10/2013	73.05	27.37	---	---	45.68	Blaine Tech	
GMW-SF-10	4/21/2009	75.77	27.1	---	---	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
	10/15/2012	75.77	29.88	---	---	45.89	Blaine Tech
4/8/2013	75.77	Dry	---	---	---	Blaine Tech	
GWR-3	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	---	Envent
	3/27/2009	74.93	27.18	---	---	47.75	Envent
	4/21/2009	74.93	29.97	---	---	44.96	Envent

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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 (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	7/21/2009	74.93	28.77	---	---	46.16	Envent
	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	77.60	29.56	---	---	48.04	Blaine Tech
	10/15/2012	77.60	31.21	---	---	46.39	Blaine Tech
	4/8/2013	77.60	29.21	29.18	0.03	48.39	Blaine Tech
	10/7/2013	77.60	36.2	31.67	4.53	45.21	Blaine Tech
MW-18 (MID)	04/30/2007	75.67	29.77	---	---	45.9	Secor
	11/12/2007	75.67	30.23	---	---	45.44	Secor
	04/14/2008	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
	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
MW-O-1	8/14/2007	75.48	25.31	23.78	1.53	---	Geomatrix
	8/21/2007	75.48	23.84	23.58	0.26	---	Geomatrix
	8/28/2007	75.48	23.07	23.06	0.01	---	Stantec
	9/11/2007	75.48	23.86	23.48	0.38	---	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	---	Stantec
	12/28/2007	75.48	25.54	25.51	0.03	---	Geomatrix
	8/19/2008	75.48	25.18	25.13	0.05	---	Envent
	10/17/2008	75.48	25.30	---	---	50.18	Envent
	12/19/2008	75.48	26.31	---	---	49.17	Envent
	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
	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
MW-O-2	11/12/2007	71.90	23.10	---	---	48.80	Stantec
	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
	7/21/2009	71.90	23.63	---	---	48.27	Envent
	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	71.90	23.31	---	---	48.59	Blaine Tech
	10/10/2011	71.90	27.53	---	---	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 (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	1/9/2012	71.90	28.13	--	--	43.77	Blaine Tech
	7/9/2012	71.90	26.53	---	---	45.37	Blaine Tech
	10/15/2012	71.90	26.89	---	---	45.01	Blaine Tech
	1/14/2013	71.90	26.93	---	---	44.97	Blaine Tech
	6/6/2013	71.90	28.99	---	---	42.91	Blaine Tech
	10/7/2013	71.9	29.06	---	---	42.84	Blaine Tech
MW-SF-1	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
	7/22/2009	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	46.34	Blaine Tech
MW-SF-2	11/12/2007	78.53	29.18	28.71	0.47	---	Stantec
	8/12/2008	78.53	31.11	---	---	47.42	Envent
	10/17/2008	78.53	31.55	31.50	0.05	---	Envent
	12/18/2008	78.53	32.75	32.55	0.20	---	Envent
	1/15/2009	78.53	30.84	30.57	0.27	---	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
	12/9/2009	78.53	31.45	---	---	47.08	Kinder Morgan
	10/4/2010	78.53	30.96	30.75	0.21	---	Blaine Tech
	1/10/2011	78.53	32.62	32.50	0.12	---	Blaine Tech
	4/11/2011	78.53	29.83	---	---	48.70	Blaine Tech
	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	1.5	45.21	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 (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
MW-SF-3	11/12/2007	78.12	29.34	28.28	1.06	---	Stantec
	8/12/2008	78.12	30.30	29.05	1.25	---	Envent
	10/17/2008	78.12	29.45	---	---	48.67	Envent
	12/18/2008	78.12	31.08	30.82	0.26	---	Envent
	1/15/2009	78.12	29.96	29.94	0.02	---	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	---	Envent
	7/21/2009	78.12	30.07	---	---	48.05	Envent
	11/6/2009	78.12	30.37	30.35	0.02	---	Kinder Morgan
	12/9/2009	78.12	30.53	---	---	48.05	Kinder Morgan
	9/3/2010	78.12	30.97	30.42	0.55	---	Kinder Morgan
	10/4/2010	78.12	30.88	30.30	0.58	---	Blaine Tech
	4/12/2011	78.12	29.44	---	---	48.68	Blaine Tech
	10/10/2011	78.12	30.75	---	---	47.37	Blaine Tech
	10/15/2012	78.12	32.47	---	---	45.65	Blaine Tech
	5/24/2013	78.12	33.35	32.51	0.84	44.77	Blaine Tech
9/25/2013	78.12	34.40	---	---	43.72	CH2M HILL	
11/14/2013	78.12	33.26	---	---	44.86	CH2M HILL	
MW-SF-4	8/14/2007	79.38	30.34	28.38	1.96	---	Geomatrix
	8/28/2007	79.38	29.95	28.30	1.65	---	Stantec
	9/11/2007	79.38	29.98	28.43	1.55	---	Geomatrix
	10/5/2007	79.38	30.68	28.85	1.83	---	Geomatrix
	10/12/2007	79.38	30.27	29.96	0.31	---	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	---	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	---	Blaine Tech
	4/28/2009	79.38	30.78	---	---	48.60	Envent
	7/17/2009	79.38	31.85	---	---	47.53	Envent
	7/22/2009	79.38	31.65	31.61	0.04	---	Blaine Tech
	10/19/2009	79.38	31.93	31.90	0.03	---	Blaine Tech
	3/15/2010	79.38	31.95	31.91	0.04	---	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	
1/9/2012	79.38	32.07	---	---	47.31	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 (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	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	---	---	---	Blaine Tech
	10/7/2013	79.38	dry	---	---	---	Blaine Tech
MW-SF-5	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
	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
	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
MW-SF-6	11/12/2007	76.80	27.14	---	---	49.66	Stantec
	8/12/2008	76.80	29.82	---	---	46.98	Envent
	10/17/2008	76.80	29.75	---	---	47.05	Envent
	12/18/2008	76.80	30.73	---	---	46.07	Envent
	1/15/2009	76.80	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
	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
	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	46.59	Blaine Tech
	11/14/2013	76.8	31.9	---	---	44.90	Blaine Tech
MW-SF-9	8/14/2007	74.10	28.73	28.61	0.12	---	Geomatrix
	8/28/2007	74.10	20.55	---	---	53.55	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 (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	8/21/2007	74.10	26.55	---	---	47.55	Geomatrix
	9/11/2007	74.10	19.40	---	---	54.70	Geomatrix
	10/5/2007	74.10	26.84	---	---	47.26	Geomatrix
	11/2/2007	74.10	22.76	---	---	51.34	Geomatrix
	11/12/2007	74.10	22.96	---	---	51.14	Stantec
	12/21/2007	74.10	24.05	---	---	50.05	Geomatrix
	4/14/2008	74.10	24.23	---	---	49.87	Stantec
	10/13/2008	74.10	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
	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	
4/8/2013	74.10	28.53	---	---	45.57	Blaine Tech	
10/7/2013	74.1	28.95	---	---	45.15	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	28.5	28.36	0.14	---	Blaine Tech
	4/11/2011	76.53	27.41	27.37	0.04	---	Blaine Tech
	10/10/2011	76.53	27.6	---	---	48.93	Blaine Tech
	4/16/2012	76.53	28.81	---	---	47.72	Blaine Tech
	10/15/2012	76.53	29.27	---	---	47.26	Blaine Tech
	4/8/2013	76.53	Dry	---	---	---	Blaine Tech
10/7/2013	76.53	dry	---	---	---	Blaine Tech	
MW-SF-11	8/14/2007	78.56	28.58	28.30	0.28	---	Geomatrix
	8/21/2007	78.56	28.76	28.63	0.13	---	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	---	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
	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	
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	

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 (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
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
	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
10/10/2011	78.07	26.60	---	---	51.47	Blaine Tech	
4/16/2012	78.07	31.40	---	---	46.67	Blaine Tech	
10/15/2012	78.07	32.12	---	---	45.95	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	---	Geomatrix
	11/12/2007	73.40	23.70	---	---	49.70	Stantec
	12/21/2007	73.40	24.45	24.42	0.03	---	Geomatrix
	8/15/2008	73.40	27.38	24.11	3.27	---	Envent
	10/17/2008	73.40	27.28	24.33	2.95	---	Envent
	10/21/2008	73.40	27.14	24.26	2.88	---	Envent
	9/3/2010	73.40	27.40	25.71	1.69	---	Kinder Morgan
	12/17/2008	73.40	26.21	24.70	1.51	---	Envent
	1/15/2009	73.40	26.90	24.80	2.10	---	Envent
	3/27/2009	73.40	26.46	25.49	0.97	---	Envent
	4/21/2009	73.40	24.86	24.78	0.08	---	Envent
	7/21/2009	73.40	25.72	25.48	0.24	---	Envent
	11/6/2009	73.40	25.72	---	---	47.68	Kinder Morgan
	2/4/2010	73.40	25.43	25.30	0.13	---	Kinder Morgan
	10/4/2010	73.40	26.95	25.92	1.03	---	Blaine Tech
4/12/2011	73.40	24.79	24.78	0.01	---	Blaine Tech	
10/10/2011	73.40	26.00	---	---	47.40	Blaine Tech	
4/16/2012	73.40	27.19	---	---	46.21	Blaine Tech	
10/15/2012	73.40	27.01	---	---	46.39	Blaine Tech	
4/8/2013	73.40	27.90	---	---	45.50	Blaine Tech	
11/14/2013	73.4	29.95	28.25	1.7	44.88	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

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 (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	8/15/2008	78.16	29.77	29.24	0.53	---	Envent
	10/17/2008	78.16	29.52	29.50	0.02	---	Envent
	12/18/2008	78.16	30.62	---	---	47.54	Envent
	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
	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
	10/15/2012	78.16	30.02	---	---	48.14	Blaine Tech
	4/8/2013	78.16	32.75	---	---	45.41	Blaine Tech
	9/26/2013	78.16	34.50	34.25	0.25	---	CH2M HILL
	11/14/2013	78.16	33.57	33.19	0.38	44.91	Blaine Tech
MW-SF-15	8/14/2007	78.27	27.78	27.75	0.03	---	Geomatrix
	8/21/2007	78.27	27.69	27.65	0.04	---	Geomatrix
	8/28/2007	78.27	27.65	27.61	0.04	---	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	---	Geomatrix
	11/12/2007	78.27	28.75	---	---	49.52	Stantec
	8/15/2008	78.27	30.12	29.35	0.77	---	Envent
	10/17/2008	78.27	30.80	29.44	1.36	---	Envent
	10/21/2008	78.27	30.80	29.31	1.49	---	Envent
	12/18/2008	78.27	32.11	30.56	1.55	---	Envent
	1/15/2009	78.27	31.75	29.70	2.05	---	Envent
	3/24/2009	78.27	30.32	29.93	0.39	---	Envent
	4/21/2009	78.27	29.96	29.60	0.36	---	Envent
	7/21/2009	78.27	30.45	---	---	47.82	Envent
	11/4/2009	78.27	31.10	30.45	0.36	---	Kinder Morgan
	12/9/2009	78.27	30.87	---	---	47.40	Kinder Morgan
	10/4/2010	78.27	30.66	30.65	0.01	---	Blaine Tech
	4/12/2011	78.27	30.50	29.40	1.1	---	Blaine Tech
	10/10/2011	78.27	29.60	---	---	48.67	Blaine Tech
	12/2/2011	78.27	31.40	30.05	1.4	---	Blaine Tech
	4/16/2012	78.27	32.48	32.39	0.1	---	Blaine Tech
	10/15/2012	78.27	33.15	---	---	45.12	Blaine Tech
	4/8/2013	78.27	33.90	---	---	44.37	Blaine Tech
	11/14/2013	78.27	33.41	33.38	0.03	44.89	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	---	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 (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	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
	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
	10/15/2012	78.21	32.47	---	---	45.74	Blaine Tech
	4/8/2013	78.21	32.97	32.73	0.24	45.24	Blaine Tech
	11/14/2013	78.21	33.8	33.21	0.59	44.91	Blaine Tech

Abbreviations

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

ft btoc = feet below top of casing

--- = not detected or not applicable

Figures

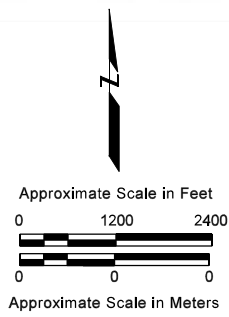
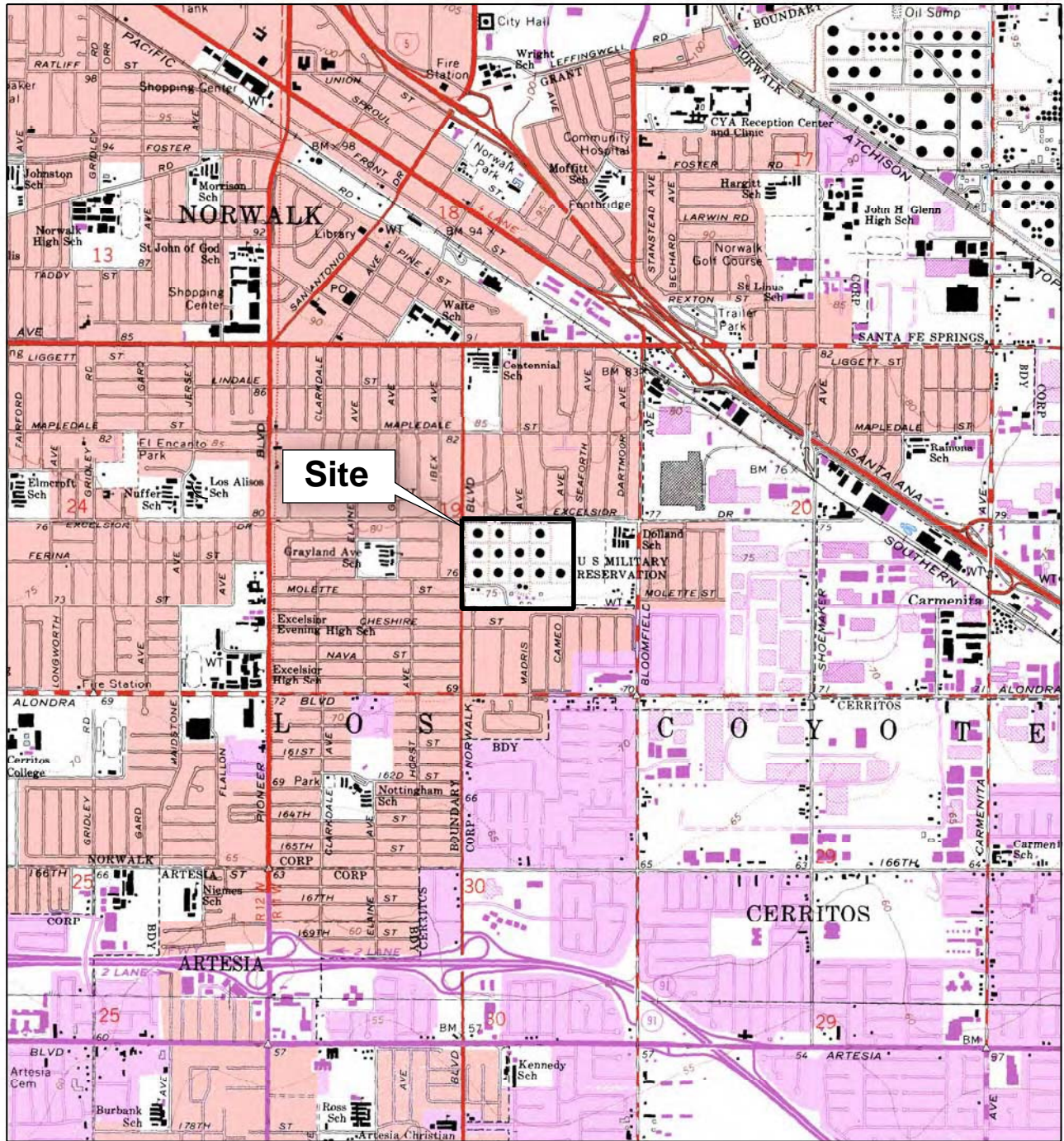


FIGURE 1
 Site Location Map
 SFPD Norwalk Pump Station
 Norwalk, California

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.



Explanation

- GMW-5 ● Existing Groundwater Monitoring Well
- VE-1 † Existing Remediation Well
- KMEP Remediation Piping Layout (above ground and below ground)
- - - Horizontal Vapor Extraction Well Piping

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

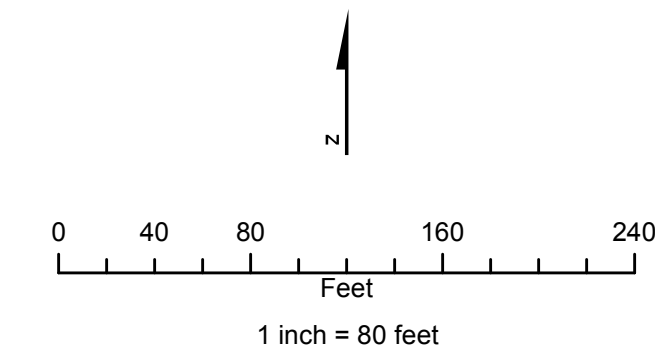


Figure 2
Remediation System Layout
 SFPP Norwalk Pump Station
 Norwalk, California

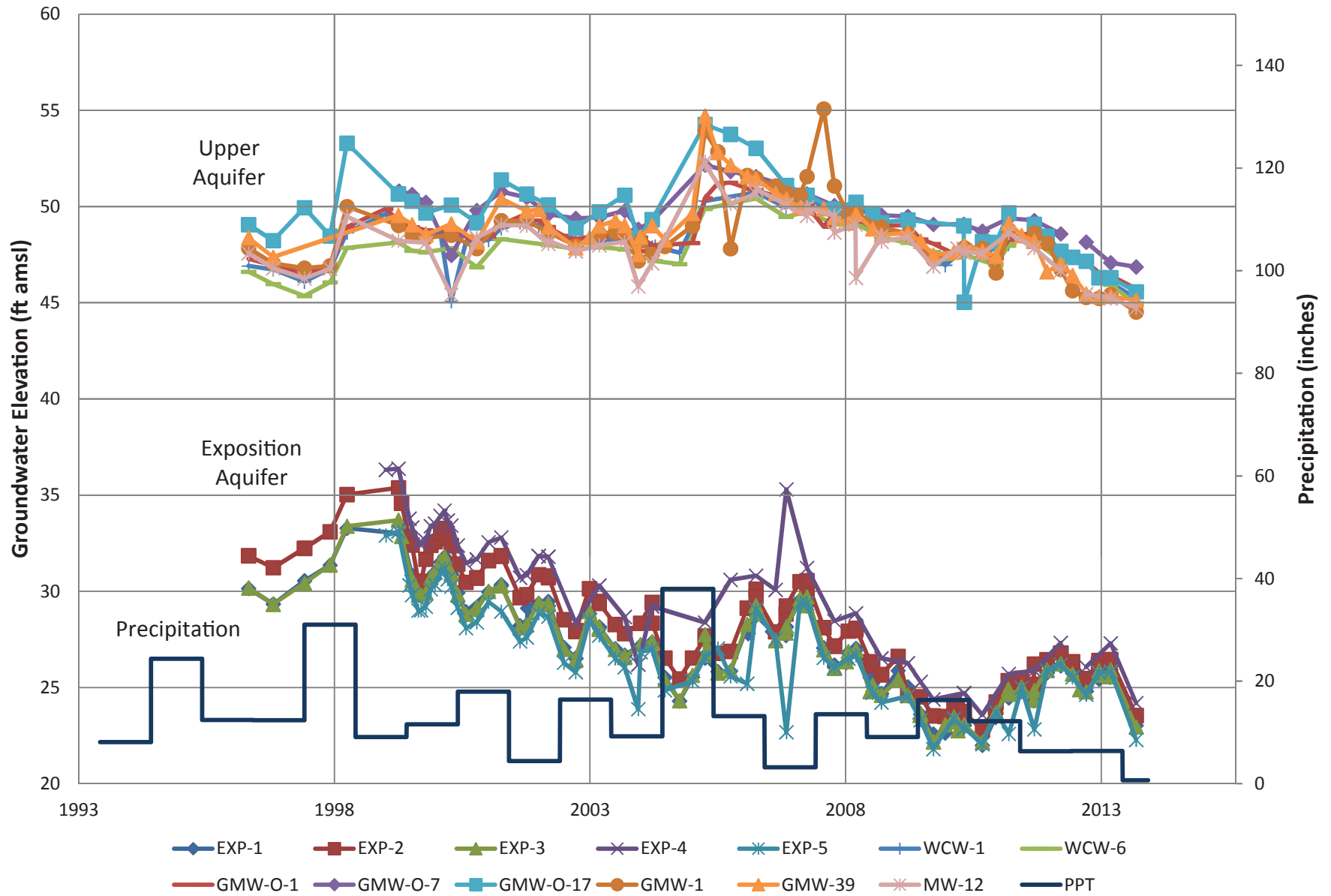


FIGURE 3
 Hydrographs for Select Groundwater Monitoring Wells
 SFPP Norwalk Pump Station
 Norwalk, California

Appendix A

Summary of System Shutdowns in 2013

Appendix A

Summary of System Shutdowns in 2013

The remediation systems operated continuously during 2013 with some exceptions as described below and in previously submitted quarterly progress reports for 2013.

First Quarter 2013

- The SVE system was off on arrival on January 2, 4, and 29, 2013. The system was restarted on the same day. The shutdowns on January 2 and 29 were due to high temperature limit and flame off alarm. The reason for the shutdown on January 4 was unknown; as a result of the shutdown, the manifold was cleaned.
- The TFE/GWE system shut down on January 4, 8, 11, 15, 18, 21, and 25, 2013, due to clogged bag filters and a high water level in the transfer tank. The bag filters were changed out, the lead LGAC vessels were backwashed, and the system was restarted the same day. Two backwash tanks and a recirculation pump will be added to the upstream system to reduce the amount of fines that are plugging up the bag filters.
- The TFE/GWE systems were turned off on January 17, 2013, to clean out the OWS, sump, equalization tank, and transfer tank. The system was restarted the same day.
- The SVE and the TFE/GWE systems were off on arrival on January 21, 2013, due to a sitewide power outage. The system was restarted the same day.
- The SVE system was down on February 26, 2013, to upgrade the control panel. The blower air pressure, knockout pot high level, low gas pressure, high gas pressure, and high temperature alarms were wired into the control panel. The TFE system was shut down to change out the carbon from the lead LGAC vessel. Both systems were restarted the same day.
- The TFE system was shut down on March 19, 2013, to replace one of the FBBR pumps. The system was restarted on the same day.

Second Quarter 2013

- The TFE/GWE system was turned off on April 26, 2013, to clean out the OWS and sump. The system was restarted the same day.
- The SVE system was off on May 23 and 29, 2013, for baildown testing activities. The system was restarted the same day.
- The SVE system was off during the first week of June 2013 for baildown testing activities. The system was restarted on June 6, 2013.
- The TFE/GWE system shut down on April 22, May 3, May 8, and June 25, 2013, due to clogged bag filters and a high water level in the transfer tank. The bag filters were

changed out, the lead LGAC vessels were backwashed, and the system was restarted the same day. A backwash tank and a recirculation pump will be added to the upstream system to reduce the amount of fines that are plugging up the bag filters.

- The SVE and TFE/GWE systems were off on arrival on June 28, 2013, due to a sitewide power outage. The system was restarted the same day.

Third Quarter 2013

- The SVE system was offline from July 16 to September 17, 2013, due to mechanical issues with the SVE system blower. A replacement blower was installed on September 17, 2013.
- The TFE/GWE system was turned off on July 16, 2013, for LGAC carbon changeout. The system was restarted the same day.
- The SVE and TFE/GWE systems were turned off on September 30, 2013, in preparation for the second semiannual groundwater monitoring event.

Fourth Quarter 2013

- The SVE and TFE systems were offline from September 30 to October 8, 2013, to allow groundwater levels to be collected under static conditions for the second semiannual groundwater monitoring event.
- The TFE/GWE system was turned off on October 26, 2013, due to a high transfer tank alarm. A bag filter changeout and LGAC backwash were conducted prior to restarting the TFE/GWE system.
- The TFE/GWE system was turned off on November 5, 2013, to install the backwash tank and recirculation pump upstream of the bag filter housings.
- The TFE/GWE system was turned off on November 21, 2013, for LGAC carbon changeout. The system was restarted the same day.
- The SVE system was down from December 2 to 3, 2013, due to mechanical issues with the SVE system motor. A replacement motor was installed on December 3, 2013.
- The SVE system was turned off for 1 to 2 hours on a bi-weekly basis during the fourth quarter 2013 to drain the water from the SVE manifold. The system was restarted on the same day.

Appendix B

Laboratory Analytical Reports

October 30, 2013

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.:2676
NV Cert. No.:NV-009222007A

Workorder No.: N011292

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on October 16, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The attached report is the final hard copy pertaining to the subcontracted tests for the above project.

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

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

Sincerely,

for 

Jose Tenorio Jr.
Laboratory Director

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



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N011292
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N011292-001A	VINF-10-15	Air	10/15/2013 1:00:00 PM	10/15/2013	10/30/2013
N011292-001B	VINF-10-15	Air	10/15/2013 1:00:00 PM	10/15/2013	10/30/2013



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N011292

CASE NARRATIVE

Subcontracted Analyses:

Samples were subcontracted to ATL Air Labs - City of Industry,CA.



CHAIN OF CUSTODY RECORD

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

DATE: 10/15/13
 PAGE: 1 OF 1

LABORATORY CLIENT:		CLIENT PROJECT NAME / NUMBER:																																														
Kinder Morgan Energy Partners, Attn: Steve Defibaugh		SFPP - Norwalk Site																																														
ADDRESS: 1100 Town & Country Road		PROJECT CONTACT: James Dye																																														
CITY: Orange, CA 92868		SAMPLER(S): (SIGNATURE)																																														
TEL: 714-560-4802	FAX: 714-560-4601	<input type="checkbox"/> LAB USE ONLY <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																																														
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWOCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL / /																																																
E-MAIL james.dye@kimerge.com		REQUESTED ANALYSIS																																														
SPECIAL INSTRUCTIONS Report to D. Jablonski/CH2M HILL, cc: KMEP Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">LAB USE ONLY</th> <th rowspan="2">SAMPLE ID</th> <th rowspan="2">LOCATION / DESCRIPTION</th> <th colspan="3">SAMPLING</th> <th rowspan="2">NO. OF CONT.</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th>MAT- RIX</th> </tr> </thead> <tbody> <tr> <td></td> <td>VINF- 10-15</td> <td>Influent Vapor (from header)</td> <td>10/15</td> <td>13:50</td> <td>Air</td> <td>4</td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>				LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING			NO. OF CONT.	DATE	TIME	MAT- RIX		VINF- 10-15	Influent Vapor (from header)	10/15	13:50	Air	4																												
							LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION		SAMPLING			NO. OF CONT.																																		
DATE	TIME			MAT- RIX																																												
	VINF- 10-15			Influent Vapor (from header)	10/15	13:50	Air	4																																								
		TO-15	X		ASTM-1946 (O2/Argon, CO2, CH4)	Monthly sample																																										
		TO-3 (PH-g)	X																																													

Relinquished by: (Signature)
 Received by: (Signature)
 Relinquished by: (Signature)
 Received by: (Signature)

Date: 10-15-13 Time: 15:36
 Date: 10/15/13 Time: 1600

Revised: 04/27/2011

Advanced Technology Laboratories, Inc.

WORK ORDER Summary

16-Oct-13

WorkOrder: N011292

Client ID: CH2HI01

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 10/15/2013

Comments: Report to D. Jablonski/CH2M HILL, cc:KMEP.

Direct Bill KMEP/SFPP-Steve Defibaugh-ref.AFE# 81195. "J" Flags r

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N011292-001A	VINF-10-15	10/15/2013 1:00:00 PM	10/22/2013	Air	EPA TO15	SIM Mode	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
			10/22/2013		EPA TO3	VOCs by GCMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N011292-001B			10/22/2013		ASTM D1946	VOCs by GCMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N011292-002A	FOLDER		10/22/2013		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SUB



Advanced Technology Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

ATL-Industry

TEL:

Field Sampler: James Dye

FAX:

City of Industry, CA

Acct #:

16-Oct-13

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				ASTM D1946	EPA TO15	EPA TO3
N011292-001A / VINP-10-15	Air	10/15/2013 1:00:00 PM	BAG		1	1
N011292-001B / VINP-10-15	Air	10/15/2013 1:00:00 PM	BAG	1		
N011292-002A / FOLDER						

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N011292 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by regular TAT. SFPP Norwalk monthly samples.

Relinquished by: _____	Date/Time: 2013-10-16	Received by: _____	Date/Time: _____
Relinquished by: _____	_____	Received by: _____	_____



Advanced Technology Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691



Advanced Technology Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

ATL-Industry

TEL:

Field Sampler: James Dye

FAX:

City of Industry, CA

Acct #:

16-Oct-13

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				Folder		
N011292-001A / VINP-10-15	Air	10/15/2013 1:00:00 PM	BAG			
N011292-001B / VINP-10-15	Air	10/15/2013 1:00:00 PM	BAG			
N011292-002A / FOLDER				1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N011292 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by regular TAT. SFPP Norwalk monthly samples.

	Date/Time		Date/Time
Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____	



October 30, 2013

Advanced Technology Labs, Inc.
ATTN: Marlon Cartin
3151-3153 W. Post Rd.
Las Vegas, NV 89118



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



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

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: N011292
Lab Number: E101503-01

Enclosed are results for sample(s) received 10/15/13 by Air Technology Laboratories. 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).

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,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

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

E101503-01

Advanced Technology Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:
ATL-Industry

TEL:
FAX:
Acct #:

Field Sampler: James Dye

City of Industry, CA

16-Oct-13



Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				ASTM D1946	EPA TO15
N011292-001A / VINP-10-15	Air	10/15/2013 1:00:00 PM	BAG		1
N011292-001B / VINP-10-15	Air	10/15/2013 1:00:00 PM	BAG	1	
N011292-002A / FOLDER					

01

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N011292
regular TAT. SFPP Norwalk monthly samples.

For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by

Relinquished by:	Date/Time	Received by:	Date/Time
	2013-10-16		10/15/13 1000
Relinquished by:		Received by:	

Advanced Technology Laboratories, Inc.
3151 W Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691



Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N011292
Date Received: 10/15/13
Matrix: Air
Reporting Units: ppbv

EPA Method TO15							
Lab No.:	E101503-01						
Client Sample I.D.:	N011292-001A / VINF-10-15						
Date Sampled:	10/15/13						
Date Analyzed:	10/16/13						
QC Batch No.:	131015MS2A1						
Analyst Initials:	DT						
Dilution Factor:	20						
ANALYTE	Result ppbv	RL ppbv					
Dichlorodifluoromethane (12)	ND	20					
Chloromethane	ND	40					
1,2-CI-1,1,2,2-F ethane (114)	ND	20					
Vinyl Chloride	ND	20					
Bromomethane	ND	20					
Chloroethane	ND	20					
Trichlorofluoromethane (11)	ND	20					
1,1-Dichloroethene	ND	20					
Carbon Disulfide	ND	100					
1,1,2-CI 1,2,2-F ethane (113)	ND	20					
Acetone	ND	100					
Methylene Chloride	ND	20					
t-1,2-Dichloroethene	ND	20					
1,1-Dichloroethane	ND	20					
Vinyl Acetate	ND	100					
c-1,2-Dichloroethene	ND	20					
2-Butanone	64	20					
t-Butyl Methyl Ether (MTBE)	ND	20					
Chloroform	ND	20					
1,1,1-Trichloroethane	ND	20					
Carbon Tetrachloride	ND	20					
Benzene	3,500	20					
1,2-Dichloroethane	ND	20					
Trichloroethene	ND	20					
1,2-Dichloropropane	ND	20					
Bromodichloromethane	ND	20					
c-1,3-Dichloropropene	ND	20					
4-Methyl-2-Pentanone	ND	20					
Toluene	2,800	20					
t-1,3-Dichloropropene	ND	20					
1,1,2-Trichloroethane	ND	20					
Tetrachloroethene	ND	20					
2-Hexanone	ND	20					
Dibromochloromethane	ND	20					



Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N011292
Date Received: 10/15/13
Matrix: Air
Reporting Units: ppbv

EPA Method TO15							
Lab No.:	E101503-01						
Client Sample I.D.:	N011292-001A / VINP-10-15						
Date Sampled:	10/15/13						
Date Analyzed:	10/16/13						
QC Batch No.:	131015MS2A1						
Analyst Initials:	DT						
Dilution Factor:	20						
ANALYTE	Result ppbv	RL ppbv					
1,2-Dibromoethane	ND	20					
Chlorobenzene	ND	20					
Ethylbenzene	360	20					
p,&m-Xylene	1,500	20					
o-Xylene	470	20					
Styrene	21	20					
Bromoform	ND	20					
1,1,2,2-Tetrachloroethane	ND	40					
Benzyl Chloride	ND	20					
4-Ethyl Toluene	270	20					
1,3,5-Trimethylbenzene	120	40					
1,2,4-Trimethylbenzene	190	40					
1,3-Dichlorobenzene	ND	20					
1,4-Dichlorobenzene	ND	20					
1,2-Dichlorobenzene	ND	20					
1,2,4-Trichlorobenzene	ND	40					
Hexachlorobutadiene	ND	20					

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10-28-13

The cover letter is an integral part of this analytical report



QC Batch #: 131015MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	10/16/13		10/15/13		10/16/13						
Data File ID:	15OCT009.D		15OCT006.D		15OCT007.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	8.0	80	8.1	81	0.5	70	130	30	Pass
Methylene Chloride	0.0	10.0	8.4	84	8.5	85	1.3	70	130	30	Pass
Trichloroethene	0.0	10.0	9.3	93	9.0	90	3.2	70	130	30	Pass
Toluene	0.0	10.0	8.7	87	8.5	85	2.8	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	10.8	108	10.6	106	1.2	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10-28-13

The cover letter is an integral part of this analytical report



Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N011292
Date Received: 10/15/13
Matrix: Air
Reporting Units: % v/v

ASTM D1946							
Lab No.:	E101503-01						
Client Sample I.D.:	N011292-001A / VINP-10-15						
Date Sampled:	10/15/13						
Date Analyzed:	10/16/13						
QC Batch No.:	131016GC8A1						
Analyst Initials:	MJ						
Dilution Factor:	1.0						
ANALYTE	Result % v/v	RL % v/v					
Carbon Dioxide	0.68	0.010					
Oxygen/Argon	21	0.50					
Nitrogen	78	1.0					
Methane	0.011	0.0010					

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10-29-13

The cover letter is an integral part of this analytical report



QC Batch No.: 131016GC8A1


Matrix: Air

Units: % v/v

QC for ASTM D1946

Lab No.:	Method Blank	LCS	LCSD					
Date Analyzed:	10/16/13	10/16/13	10/16/13					
Analyst Initials:	MJ	MJ	MJ					
Datafile:	16oct010	16oct006	16oct007					
Dilution Factor:	1.0	1.0	1.0					
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Carbon Dioxide	ND	0.010	101	70-130%	100	70-130%	0.7	<30
Oxygen/Argon	ND	0.50	107	70-130%	105	70-130%	1.7	<30
Nitrogen	ND	1.0	105	70-130%	104	70-130%	1.6	<30
Methane	ND	0.0010	92	70-130%	91	70-130%	0.4	<30

ND = Not Detected (Below RL)

Reviewed/Approved By: 
 Mark J. Johnson
 Operations Manager

Date: 10-29-13

The cover letter is an integral part of this analytical report



Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N011292
Date Received: 10/15/13
Matrix: Air
Reporting Units: ppmv

EPA METHOD TO3

Lab No.:	E101503-01						
Client Sample I.D.:	N011292-001A / VINP-10-15						
Date Sampled:	10/15/13						
Date Analyzed:	10/18/13						
QC Batch No.:	131018GC11A1						
Analyst Initials:	VM						
Dilution Factor:	1.0						
ANALYTE	Result ppmv	RL ppmv					
TVOC as Gasoline	410	1.0					

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10/26/13

The cover letter is an integral part of this analytical report



October 24, 2013

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612
TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.:2676
NV Cert. No.:NV-009222007A

Workorder No.: N011290

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on October 16, 2013 by Advanced Technology Laboratories, Inc. . 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,



Jose Tenorio Jr.
Laboratory Director

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**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N011290

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 8260B:

Laboratory Control Sample (LCS) recovery biased high for Bromomethane and Freon 113. Sample results were non-detect (ND) for these analytes therefore reanalysis of the samples was not necessary.

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



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N011290
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N011290-001A	INF-10-15	Wastewater	10/15/2013 12:15:00 PM	10/16/2013	10/24/2013
N011290-001B	INF-10-15	Wastewater	10/15/2013 12:15:00 PM	10/16/2013	10/24/2013
N011290-001C	INF-10-15	Wastewater	10/15/2013 12:15:00 PM	10/16/2013	10/24/2013



Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 24-Oct-13

CLIENT: CH2M HILL
Lab Order: N011290
Project: SFPP - Norwalk Site
Lab ID: N011290-001

Client Sample ID: INF-10-15
Collection Date: 10/15/2013 12:15:00 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: MS5_131018A	QC Batch: P13VW168	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	1.0	ug/L	1	10/18/2013 09:54 PM
1,1,1-Trichloroethane	ND	0.072	1.0	ug/L	1	10/18/2013 09:54 PM
1,1,2,2-Tetrachloroethane	ND	0.10	1.0	ug/L	1	10/18/2013 09:54 PM
1,1,2-Trichloroethane	ND	0.13	1.0	ug/L	1	10/18/2013 09:54 PM
1,1-Dichloroethane	ND	0.062	0.50	ug/L	1	10/18/2013 09:54 PM
1,1-Dichloroethene	ND	0.16	1.0	ug/L	1	10/18/2013 09:54 PM
1,1-Dichloropropene	ND	0.073	1.0	ug/L	1	10/18/2013 09:54 PM
1,2,3-Trichlorobenzene	ND	0.084	1.0	ug/L	1	10/18/2013 09:54 PM
1,2,3-Trichloropropane	ND	0.11	1.0	ug/L	1	10/18/2013 09:54 PM
1,2,4-Trichlorobenzene	ND	0.10	1.0	ug/L	1	10/18/2013 09:54 PM
1,2,4-Trimethylbenzene	42	0.036	1.0	ug/L	1	10/18/2013 09:54 PM
1,2-Dibromo-3-chloropropane	ND	0.34	2.0	ug/L	1	10/18/2013 09:54 PM
1,2-Dibromoethane	ND	0.090	1.0	ug/L	1	10/18/2013 09:54 PM
1,2-Dichlorobenzene	ND	0.048	1.0	ug/L	1	10/18/2013 09:54 PM
1,2-Dichloroethane	1.6	0.044	0.50	ug/L	1	10/18/2013 09:54 PM
1,2-Dichloropropane	ND	0.094	1.0	ug/L	1	10/18/2013 09:54 PM
1,3,5-Trimethylbenzene	22	0.054	1.0	ug/L	1	10/18/2013 09:54 PM
1,3-Dichlorobenzene	ND	0.061	1.0	ug/L	1	10/18/2013 09:54 PM
1,3-Dichloropropane	ND	0.081	1.0	ug/L	1	10/18/2013 09:54 PM
1,4-Dichlorobenzene	ND	0.078	1.0	ug/L	1	10/18/2013 09:54 PM
2,2-Dichloropropane	ND	0.061	1.0	ug/L	1	10/18/2013 09:54 PM
2-Butanone	ND	0.70	10	ug/L	1	10/18/2013 09:54 PM
2-Chlorotoluene	ND	0.054	1.0	ug/L	1	10/18/2013 09:54 PM
4-Chlorotoluene	ND	0.039	1.0	ug/L	1	10/18/2013 09:54 PM
4-Isopropyltoluene	0.80	0.044	1.0	J ug/L	1	10/18/2013 09:54 PM
4-Methyl-2-pentanone	ND	0.59	10	ug/L	1	10/18/2013 09:54 PM
Acetone	ND	1.2	10	ug/L	1	10/18/2013 09:54 PM
Acrolein	ND	0.89	20	ug/L	1	10/18/2013 09:54 PM
Acrylonitrile	ND	0.68	20	ug/L	1	10/18/2013 09:54 PM
Benzene	1400	4.8	100	ug/L	100	10/18/2013 08:59 PM
Bromobenzene	ND	0.054	1.0	ug/L	1	10/18/2013 09:54 PM
Bromochloromethane	ND	0.15	1.0	ug/L	1	10/18/2013 09:54 PM
Bromodichloromethane	ND	0.048	1.0	ug/L	1	10/18/2013 09:54 PM
Bromoform	ND	0.18	1.0	ug/L	1	10/18/2013 09:54 PM
Bromomethane	ND	0.13	1.0	ug/L	1	10/18/2013 09:54 PM
Carbon disulfide	ND	0.040	1.0	ug/L	1	10/18/2013 09:54 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



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 24-Oct-13

CLIENT: CH2M HILL
Lab Order: N011290
Project: SFPP - Norwalk Site
Lab ID: N011290-001

Client Sample ID: INF-10-15
Collection Date: 10/15/2013 12:15:00 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: MS5_131018A	QC Batch: P13VW168	PrepDate:	Analyst: QBM			
Carbon tetrachloride	ND	0.057	0.50	ug/L	1	10/18/2013 09:54 PM
Chlorobenzene	ND	0.044	1.0	ug/L	1	10/18/2013 09:54 PM
Chloroethane	ND	0.17	1.0	ug/L	1	10/18/2013 09:54 PM
Chloroform	ND	0.048	1.0	ug/L	1	10/18/2013 09:54 PM
Chloromethane	ND	0.043	1.0	ug/L	1	10/18/2013 09:54 PM
cis-1,2-Dichloroethene	ND	0.057	1.0	ug/L	1	10/18/2013 09:54 PM
cis-1,3-Dichloropropene	ND	0.051	1.0	ug/L	1	10/18/2013 09:54 PM
Di-isopropyl ether	15	0.038	1.0	ug/L	1	10/18/2013 09:54 PM
Dibromochloromethane	ND	0.070	1.0	ug/L	1	10/18/2013 09:54 PM
Dibromomethane	ND	0.11	1.0	ug/L	1	10/18/2013 09:54 PM
Dichlorodifluoromethane	ND	0.054	1.0	ug/L	1	10/18/2013 09:54 PM
Ethyl tert-butyl ether	ND	0.061	1.0	ug/L	1	10/18/2013 09:54 PM
Ethylbenzene	11	0.036	1.0	ug/L	1	10/18/2013 09:54 PM
Freon-113	ND	0.15	1.0	ug/L	1	10/18/2013 09:54 PM
Hexachlorobutadiene	ND	0.070	1.0	ug/L	1	10/18/2013 09:54 PM
Isopropylbenzene	6.6	0.073	1.0	ug/L	1	10/18/2013 09:54 PM
m,p-Xylene	100	0.14	1.0	ug/L	1	10/18/2013 09:54 PM
Methylene chloride	ND	0.28	2.0	ug/L	1	10/18/2013 09:54 PM
MTBE	43	0.098	1.0	ug/L	1	10/18/2013 09:54 PM
n-Butylbenzene	2.2	0.076	1.0	ug/L	1	10/18/2013 09:54 PM
n-Propylbenzene	14	0.049	1.0	ug/L	1	10/18/2013 09:54 PM
Naphthalene	53	0.10	1.0	ug/L	1	10/18/2013 09:54 PM
o-Xylene	46	0.042	1.0	ug/L	1	10/18/2013 09:54 PM
sec-Butylbenzene	1.5	0.036	1.0	ug/L	1	10/18/2013 09:54 PM
Styrene	ND	0.040	1.0	ug/L	1	10/18/2013 09:54 PM
Tert-amyl methyl ether	ND	0.054	1.0	ug/L	1	10/18/2013 09:54 PM
Tert-Butanol	250	1.0	5.0	ug/L	1	10/18/2013 09:54 PM
tert-Butylbenzene	ND	0.040	1.0	ug/L	1	10/18/2013 09:54 PM
Tetrachloroethene	ND	0.12	1.0	ug/L	1	10/18/2013 09:54 PM
Toluene	37	0.034	2.0	ug/L	1	10/18/2013 09:54 PM
trans-1,2-Dichloroethene	ND	0.11	1.0	ug/L	1	10/18/2013 09:54 PM
trans-1,3-Dichloropropene	ND	0.060	1.0	ug/L	1	10/18/2013 09:54 PM
Trichloroethene	ND	0.075	1.0	ug/L	1	10/18/2013 09:54 PM
Trichlorofluoromethane	ND	0.057	1.0	ug/L	1	10/18/2013 09:54 PM
Vinyl chloride	ND	0.082	0.50	ug/L	1	10/18/2013 09:54 PM
Xylenes, Total	150	1.5	2.0	ug/L	1	10/18/2013 09:54 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



Advanced Technology Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 24-Oct-13

CLIENT: CH2M HILL
Lab Order: N011290
Project: SFPP - Norwalk Site
Lab ID: N011290-001

Client Sample ID: INF-10-15
Collection Date: 10/15/2013 12:15:00 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:	MS5_131018A	QC Batch:	P13VW168	PrepDate:	Analyst:	QBM	
Surr:	1,2-Dichloroethane-d4	90.8	0	72-119	%REC	100	10/18/2013 08:59 PM
Surr:	1,2-Dichloroethane-d4	98.2	0	72-119	%REC	1	10/18/2013 09:54 PM
Surr:	4-Bromofluorobenzene	99.6	0	76-119	%REC	100	10/18/2013 08:59 PM
Surr:	4-Bromofluorobenzene	100	0	76-119	%REC	1	10/18/2013 09:54 PM
Surr:	Dibromofluoromethane	103	0	85-115	%REC	1	10/18/2013 09:54 PM
Surr:	Dibromofluoromethane	94.4	0	85-115	%REC	100	10/18/2013 08:59 PM
Surr:	Toluene-d8	99.9	0	81-120	%REC	100	10/18/2013 08:59 PM
Surr:	Toluene-d8	102	0	81-120	%REC	1	10/18/2013 09:54 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID:	GC1_131021A	QC Batch:	44154	PrepDate:	10/21/2013	Analyst:	MDM
TPH-Diesel (C13-C22)	650	13	51	ug/L	1	10/21/2013 08:36 PM	
TPH-Oil (C23-C36)	120	9.8	51	ug/L	1	10/21/2013 08:36 PM	
Surr: Octacosane	77.7	0	26-152	%REC	1	10/21/2013 08:36 PM	
Surr: p-Terphenyl	92.7	0	57-132	%REC	1	10/21/2013 08:36 PM	

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID:	GC4_131021A	QC Batch:	E13VW060	PrepDate:	Analyst:	PN
TPH-Gasoline (C4-C12)	3300	11	100	ug/L	1	10/21/2013 12:11 PM
Surr: Chlorobenzene - d5	114	0	74-138	%REC	1	10/21/2013 12:11 PM

TOTAL TPH

EPA 8015B

RunID:	GC1_131021A	QC Batch:	R90860	PrepDate:	10/21/2013	Analyst:	MDM
Total TPH	4070	8.7	100	ug/L	1	10/21/2013 08:36 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



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N011290
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-44154	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 10/21/2013	RunNo: 90860						
Client ID: PBW	Batch ID: 44154	TestNo: EPA 8015B EPA 3510C		Analysis Date: 10/21/2013	SeqNo: 1668829						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	50									
TPH-Oil (C23-C36)	11.833	50									J
Surr: Octacosane	74.642		80.00		93.3	26	152				
Surr: p-Terphenyl	74.858		80.00		93.6	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



CLIENT: CH2M HILL
Work Order: N011290
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: MB-44154	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date: 10/21/2013	RunNo: 90860						
Client ID: PBW	Batch ID: 44154	TestNo: EPA 8015B EPA 3510C	Analysis Date: 10/21/2013	SeqNo: 1668832							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	ND	100									

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 |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: E131021LCS	SampType: LCS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 90852						
Client ID: LCSW	Batch ID: E13VW060	TestNo: EPA 8015B	Analysis Date: 10/21/2013	SeqNo: 1668468							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	915.000	100	1000	0	91.5	67	136
Surr: Chlorobenzene - d5	50878.000		50000		102	74	138

Sample ID: E131021MB1	SampType: MBLK	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 90852						
Client ID: PBW	Batch ID: E13VW060	TestNo: EPA 8015B	Analysis Date: 10/21/2013	SeqNo: 1668469							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	51.000	100									J
Surr: Chlorobenzene - d5	51038.000		50000		102	74	138				

Sample ID: N011299-002KMS	SampType: MS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 90852						
Client ID: ZZZZZ	Batch ID: E13VW060	TestNo: EPA 8015B	Analysis Date: 10/21/2013	SeqNo: 1668471							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	913.000	100	1000	67.00	84.6	67	136
Surr: Chlorobenzene - d5	54950.000		50000		110	74	138

Sample ID: N011299-002KMSD	SampType: MSD	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 90852						
Client ID: ZZZZZ	Batch ID: E13VW060	TestNo: EPA 8015B	Analysis Date: 10/21/2013	SeqNo: 1668472							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	866.000	100	1000	67.00	79.9	67	136	913.0	5.28	30
Surr: Chlorobenzene - d5	55758.000		50000		112	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 |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131016LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90775						
Client ID: LCSW	Batch ID: P13VW167	TestNo: EPA 8260B		Analysis Date: 10/16/2013	SeqNo: 1663526						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.830	1.0	20.00	0	104	81	129				
1,1,1-Trichloroethane	22.050	1.0	20.00	0	110	67	132				
1,1,2,2-Tetrachloroethane	19.520	1.0	20.00	0	97.6	63	128				
1,1,2-Trichloroethane	20.870	1.0	20.00	0	104	75	125				
1,1-Dichloroethane	21.280	0.50	20.00	0	106	69	133				
1,1-Dichloroethene	24.020	1.0	20.00	0	120	68	130				
1,1-Dichloropropene	20.120	1.0	20.00	0	101	73	132				
1,2,3-Trichlorobenzene	22.290	1.0	20.00	0	111	67	137				
1,2,3-Trichloropropane	18.750	1.0	20.00	0	93.8	73	124				
1,2,4-Trichlorobenzene	22.830	1.0	20.00	0	114	66	134				
1,2,4-Trimethylbenzene	20.260	1.0	20.00	0	101	74	132				
1,2-Dibromo-3-chloropropane	18.120	2.0	20.00	0	90.6	50	132				
1,2-Dibromoethane	21.330	1.0	20.00	0	107	80	121				
1,2-Dichlorobenzene	21.080	1.0	20.00	0	105	71	122				
1,2-Dichloroethane	20.280	0.50	20.00	0	101	69	132				
1,2-Dichloropropane	19.280	1.0	20.00	0	96.4	75	125				
1,3,5-Trimethylbenzene	20.460	1.0	20.00	0	102	74	131				
1,3-Dichlorobenzene	20.630	1.0	20.00	0	103	75	124				
1,3-Dichloropropane	18.940	1.0	20.00	0	94.7	73	126				
1,4-Dichlorobenzene	20.190	1.0	20.00	0	101	74	123				
2,2-Dichloropropane	23.350	1.0	20.00	0	117	69	137				
2-Butanone	179.570	10	200.0	0	89.8	49	136				
2-Chlorotoluene	20.050	1.0	20.00	0	100	73	126				
4-Chlorotoluene	19.750	1.0	20.00	0	98.8	74	128				
4-Isopropyltoluene	20.440	1.0	20.00	0	102	73	130				
4-Methyl-2-pentanone	185.210	10	200.0	0	92.6	58	134				
Acetone	178.560	10	200.0	0	89.3	40	135				
Acrolein	170.340	20	200.0	0	85.2	75	125				
Acrylonitrile	225.600	20	200.0	0	113	75	125				
Benzene	20.050	1.0	20.00	0	100	81	122				

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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Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131016LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90775						
Client ID: LCSW	Batch ID: P13VW167	TestNo: EPA 8260B		Analysis Date: 10/16/2013	SeqNo: 1663526						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	20.990	1.0	20.00	0	105	76	124				
Bromochloromethane	21.980	1.0	20.00	0	110	65	129				
Bromodichloromethane	22.230	1.0	20.00	0	111	76	121				
Bromoform	22.020	1.0	20.00	0	110	69	128				
Bromomethane	29.490	1.0	20.00	0	147	53	141				S
Carbon disulfide	24.900	1.0	20.00	0	125	75	125				
Carbon tetrachloride	22.160	0.50	20.00	0	111	66	138				
Chlorobenzene	20.190	1.0	20.00	0	101	81	122				
Chloroethane	23.600	1.0	20.00	0	118	58	133				
Chloroform	21.480	1.0	20.00	0	107	69	128				
Chloromethane	16.250	1.0	20.00	0	81.2	56	131				
cis-1,2-Dichloroethene	21.700	1.0	20.00	0	108	72	126				
cis-1,3-Dichloropropene	20.340	1.0	20.00	0	102	69	131				
Di-isopropyl ether	19.000	1.0	20.00	0	95.0	70	130				
Dibromochloromethane	21.260	1.0	20.00	0	106	66	133				
Dibromomethane	21.450	1.0	20.00	0	107	76	125				
Dichlorodifluoromethane	17.380	1.0	20.00	0	86.9	53	153				
Ethyl tert-butyl ether	19.890	1.0	20.00	0	99.4	70	130				
Ethylbenzene	19.650	1.0	20.00	0	98.2	73	127				
Freon-113	25.120	1.0	20.00	0	126	75	125				S
Hexachlorobutadiene	22.300	1.0	20.00	0	112	67	131				
Isopropylbenzene	20.210	1.0	20.00	0	101	75	127				
m,p-Xylene	39.910	1.0	40.00	0	99.8	76	128				
Methylene chloride	20.230	2.0	20.00	0	101	63	137				
MTBE	19.350	1.0	20.00	0	96.8	65	123				
n-Butylbenzene	20.540	1.0	20.00	0	103	69	137				
n-Propylbenzene	20.140	1.0	20.00	0	101	72	129				
Naphthalene	21.810	1.0	20.00	0	109	54	138				
o-Xylene	20.590	1.0	20.00	0	103	80	121				
sec-Butylbenzene	19.770	1.0	20.00	0	98.8	72	127				

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: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131016LCS		SampType: LCS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 90775			
Client ID: LCSW		Batch ID: P13VW167		TestNo: EPA 8260B		Analysis Date: 10/16/2013		SeqNo: 1663526			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	20.860	1.0	20.00	0	104	65	134				
Tert-amyl methyl ether	19.340	1.0	20.00	0	96.7	70	130				
Tert-Butanol	88.760	5.0	100.0	0	88.8	70	130				
tert-Butylbenzene	20.220	1.0	20.00	0	101	70	129				
Tetrachloroethene	21.090	1.0	20.00	0	105	66	128				
Toluene	20.870	2.0	20.00	0	104	77	122				
trans-1,2-Dichloroethene	21.580	1.0	20.00	0	108	63	137				
trans-1,3-Dichloropropene	21.870	1.0	20.00	0	109	59	135				
Trichloroethene	21.510	1.0	20.00	0	108	70	127				
Trichlorofluoromethane	24.920	1.0	20.00	0	125	57	129				
Vinyl chloride	20.020	0.50	20.00	0	100	50	134				
Xylenes, Total	60.500	2.0	60.00	0	101	75	125				
Surr: 1,2-Dichloroethane-d4	25.940		25.00		104	72	119				
Surr: 4-Bromofluorobenzene	25.360		25.00		101	76	119				
Surr: Dibromofluoromethane	28.430		25.00		114	85	115				
Surr: Toluene-d8	25.790		25.00		103	81	120				

Sample ID: P131016MB2		SampType: MBLK		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 90775			
Client ID: PBW		Batch ID: P13VW167		TestNo: EPA 8260B		Analysis Date: 10/16/2013		SeqNo: 1663527			
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									

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
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CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131016MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90775						
Client ID: PBW	Batch ID: P13VW167	TestNo: EPA 8260B		Analysis Date: 10/16/2013	SeqNo: 1663527						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Acrolein	ND	20									
Acrylonitrile	ND	20									
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									

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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Work Order: N011290
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131016MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90775						
Client ID: PBW	Batch ID: P13VW167	TestNo: EPA 8260B		Analysis Date: 10/16/2013	SeqNo: 1663527						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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	0.420	2.0									J
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
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									

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
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CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131016MB2		SampType: MBLK		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 90775	
Client ID: PBW		Batch ID: P13VW167		TestNo: EPA 8260B		Analysis Date: 10/16/2013				SeqNo: 1663527	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	0.50									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	27.430		25.00		110	72	119				
Surr: 4-Bromofluorobenzene	25.600		25.00		102	76	119				
Surr: Dibromofluoromethane	29.150		25.00		117	85	115				S
Surr: Toluene-d8	25.890		25.00		104	81	120				

Sample ID: N011291-001CMS		SampType: MS		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 90775	
Client ID: ZZZZZ		Batch ID: P13VW167		TestNo: EPA 8260B		Analysis Date: 10/16/2013				SeqNo: 1663531	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.230	1.0	20.00	0	101	81	129				
1,1,1-Trichloroethane	21.590	1.0	20.00	0	108	67	132				
1,1,2,2-Tetrachloroethane	18.200	1.0	20.00	0	91.0	63	128				
1,1,2-Trichloroethane	19.930	1.0	20.00	0	99.7	75	125				
1,1-Dichloroethane	21.340	0.50	20.00	0	107	69	133				
1,1-Dichloroethene	24.560	1.0	20.00	0	123	68	130				
1,1-Dichloropropene	19.940	1.0	20.00	0	99.7	73	132				
1,2,3-Trichlorobenzene	21.140	1.0	20.00	0	106	67	137				
1,2,3-Trichloropropane	17.160	1.0	20.00	0	85.8	73	124				
1,2,4-Trichlorobenzene	21.670	1.0	20.00	0	108	66	134				
1,2,4-Trimethylbenzene	19.040	1.0	20.00	0	95.2	74	132				
1,2-Dibromo-3-chloropropane	17.590	2.0	20.00	0	88.0	50	132				
1,2-Dibromoethane	20.800	1.0	20.00	0	104	80	121				
1,2-Dichlorobenzene	20.120	1.0	20.00	0	101	71	122				
1,2-Dichloroethane	19.890	0.50	20.00	0	99.4	69	132				
1,2-Dichloropropane	19.030	1.0	20.00	0	95.2	75	125				
1,3,5-Trimethylbenzene	18.810	1.0	20.00	0	94.1	74	131				
1,3-Dichlorobenzene	19.670	1.0	20.00	0	98.4	75	124				

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 |



**Advanced Technology
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011291-001CMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90775						
Client ID: ZZZZZZ	Batch ID: P13VW167	TestNo: EPA 8260B		Analysis Date: 10/16/2013	SeqNo: 1663531						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	18.680	1.0	20.00	0	93.4	73	126				
1,4-Dichlorobenzene	19.210	1.0	20.00	0	96.0	74	123				
2,2-Dichloropropane	23.790	1.0	20.00	0	119	69	137				
2-Butanone	179.630	10	200.0	0	89.8	49	136				
2-Chlorotoluene	18.520	1.0	20.00	0	92.6	73	126				
4-Chlorotoluene	18.580	1.0	20.00	0	92.9	74	128				
4-Isopropyltoluene	18.920	1.0	20.00	0	94.6	73	130				
4-Methyl-2-pentanone	176.030	10	200.0	0	88.0	58	134				
Acetone	173.460	10	200.0	0	86.7	40	135				
Acrolein	167.340	20	200.0	0	83.7	75	125				
Acrylonitrile	233.520	20	200.0	0	117	75	125				
Benzene	20.010	1.0	20.00	0	100	81	122				
Bromobenzene	19.880	1.0	20.00	0	99.4	76	124				
Bromochloromethane	23.500	1.0	20.00	0	118	65	129				
Bromodichloromethane	20.890	1.0	20.00	0	104	76	121				
Bromoform	20.930	1.0	20.00	0	105	69	128				
Bromomethane	29.490	1.0	20.00	0	147	53	141				S
Carbon disulfide	25.190	1.0	20.00	0	126	75	125				S
Carbon tetrachloride	20.850	0.50	20.00	0	104	66	138				
Chlorobenzene	19.870	1.0	20.00	0	99.4	81	122				
Chloroethane	23.710	1.0	20.00	0	119	58	133				
Chloroform	21.630	1.0	20.00	0	108	69	128				
Chloromethane	17.900	1.0	20.00	0	89.5	56	131				
cis-1,2-Dichloroethene	21.870	1.0	20.00	0	109	72	126				
cis-1,3-Dichloropropene	20.190	1.0	20.00	0	101	69	131				
Di-isopropyl ether	19.530	1.0	20.00	0	97.6	70	130				
Dibromochloromethane	20.700	1.0	20.00	0	104	66	133				
Dibromomethane	21.100	1.0	20.00	0	106	76	125				
Dichlorodifluoromethane	17.430	1.0	20.00	0	87.2	53	153				
Ethyl tert-butyl ether	20.660	1.0	20.00	0	103	70	130				

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 |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011291-001CMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90775						
Client ID: ZZZZZZ	Batch ID: P13VW167	TestNo: EPA 8260B		Analysis Date: 10/16/2013	SeqNo: 1663531						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	19.180	1.0	20.00	0	95.9	73	127				
Freon-113	25.660	1.0	20.00	0	128	75	125				S
Hexachlorobutadiene	19.800	1.0	20.00	0	99.0	67	131				
Isopropylbenzene	18.760	1.0	20.00	0	93.8	75	127				
m,p-Xylene	39.000	1.0	40.00	0	97.5	76	128				
Methylene chloride	20.700	2.0	20.00	0	104	63	137				
MTBE	19.760	1.0	20.00	0.3600	97.0	65	123				
n-Butylbenzene	18.690	1.0	20.00	0	93.5	69	137				
n-Propylbenzene	18.480	1.0	20.00	0	92.4	72	129				
Naphthalene	21.410	1.0	20.00	0	107	54	138				
o-Xylene	19.590	1.0	20.00	0	98.0	80	121				
sec-Butylbenzene	18.370	1.0	20.00	0	91.9	72	127				
Styrene	19.910	1.0	20.00	0	99.6	65	134				
Tert-amyl methyl ether	19.050	1.0	20.00	0	95.2	70	130				
Tert-Butanol	90.560	5.0	100.0	0	90.6	70	130				
tert-Butylbenzene	18.710	1.0	20.00	0	93.6	70	129				
Tetrachloroethene	20.410	1.0	20.00	0	102	66	128				
Toluene	20.440	2.0	20.00	0	102	77	122				
trans-1,2-Dichloroethene	21.600	1.0	20.00	0	108	63	137				
trans-1,3-Dichloropropene	20.480	1.0	20.00	0	102	59	135				
Trichloroethene	20.630	1.0	20.00	0	103	70	127				
Trichlorofluoromethane	25.160	1.0	20.00	0	126	57	129				
Vinyl chloride	19.820	0.50	20.00	0	99.1	50	134				
Xylenes, Total	58.590	2.0	60.00	0	97.6	75	125				
Surr: 1,2-Dichloroethane-d4	26.490		25.00		106	72	119				
Surr: 4-Bromofluorobenzene	25.670		25.00		103	76	119				
Surr: Dibromofluoromethane	29.050		25.00		116	85	115				S
Surr: Toluene-d8	25.660		25.00		103	81	120				

Qualifiers:

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



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Laboratories, Inc.**

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CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011291-001CMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90775						
Client ID: ZZZZZZ	Batch ID: P13VW167	TestNo: EPA 8260B		Analysis Date: 10/16/2013	SeqNo: 1663532						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	21.180	1.0	20.00	0	106	81	129	20.23	4.59	20	
1,1,1-Trichloroethane	22.560	1.0	20.00	0	113	67	132	21.59	4.39	20	
1,1,2,2-Tetrachloroethane	18.370	1.0	20.00	0	91.9	63	128	18.20	0.930	20	
1,1,2-Trichloroethane	20.230	1.0	20.00	0	101	75	125	19.93	1.49	20	
1,1-Dichloroethane	21.750	0.50	20.00	0	109	69	133	21.34	1.90	20	
1,1-Dichloroethene	24.820	1.0	20.00	0	124	68	130	24.56	1.05	20	
1,1-Dichloropropene	19.810	1.0	20.00	0	99.0	73	132	19.94	0.654	20	
1,2,3-Trichlorobenzene	21.680	1.0	20.00	0	108	67	137	21.14	2.52	20	
1,2,3-Trichloropropane	17.790	1.0	20.00	0	89.0	73	124	17.16	3.61	20	
1,2,4-Trichlorobenzene	22.150	1.0	20.00	0	111	66	134	21.67	2.19	20	
1,2,4-Trimethylbenzene	19.550	1.0	20.00	0	97.8	74	132	19.04	2.64	20	
1,2-Dibromo-3-chloropropane	18.410	2.0	20.00	0	92.0	50	132	17.59	4.56	20	
1,2-Dibromoethane	21.490	1.0	20.00	0	107	80	121	20.80	3.26	20	
1,2-Dichlorobenzene	20.400	1.0	20.00	0	102	71	122	20.12	1.38	20	
1,2-Dichloroethane	20.080	0.50	20.00	0	100	69	132	19.89	0.951	20	
1,2-Dichloropropane	18.850	1.0	20.00	0	94.3	75	125	19.03	0.950	20	
1,3,5-Trimethylbenzene	19.150	1.0	20.00	0	95.8	74	131	18.81	1.79	20	
1,3-Dichlorobenzene	20.150	1.0	20.00	0	101	75	124	19.67	2.41	20	
1,3-Dichloropropane	18.760	1.0	20.00	0	93.8	73	126	18.68	0.427	20	
1,4-Dichlorobenzene	19.750	1.0	20.00	0	98.8	74	123	19.21	2.77	20	
2,2-Dichloropropane	23.530	1.0	20.00	0	118	69	137	23.79	1.10	20	
2-Butanone	185.920	10	200.0	0	93.0	49	136	179.6	3.44	20	
2-Chlorotoluene	18.730	1.0	20.00	0	93.6	73	126	18.52	1.13	20	
4-Chlorotoluene	18.900	1.0	20.00	0	94.5	74	128	18.58	1.71	20	
4-Isopropyltoluene	19.570	1.0	20.00	0	97.9	73	130	18.92	3.38	20	
4-Methyl-2-pentanone	179.000	10	200.0	0	89.5	58	134	176.0	1.67	20	
Acetone	182.100	10	200.0	0	91.0	40	135	173.5	4.86	20	
Acrolein	177.660	20	200.0	0	88.8	75	125	167.3	5.98	20	
Acrylonitrile	241.630	20	200.0	0	121	75	125	233.5	3.41	20	
Benzene	19.730	1.0	20.00	0	98.6	81	122	20.01	1.41	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 |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011291-001CMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90775						
Client ID: ZZZZZZ	Batch ID: P13VW167	TestNo: EPA 8260B	Analysis Date: 10/16/2013	SeqNo: 1663532							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	20.210	1.0	20.00	0	101	76	124	19.88	1.65	20	
Bromochloromethane	23.400	1.0	20.00	0	117	65	129	23.50	0.426	20	
Bromodichloromethane	21.200	1.0	20.00	0	106	76	121	20.89	1.47	20	
Bromoform	21.820	1.0	20.00	0	109	69	128	20.93	4.16	20	
Bromomethane	30.130	1.0	20.00	0	151	53	141	29.49	2.15	20	S
Carbon disulfide	25.490	1.0	20.00	0	127	75	125	25.19	1.18	20	S
Carbon tetrachloride	21.700	0.50	20.00	0	108	66	138	20.85	4.00	20	
Chlorobenzene	20.380	1.0	20.00	0	102	81	122	19.87	2.53	20	
Chloroethane	23.530	1.0	20.00	0	118	58	133	23.71	0.762	20	
Chloroform	21.870	1.0	20.00	0	109	69	128	21.63	1.10	20	
Chloromethane	20.090	1.0	20.00	0	100	56	131	17.90	11.5	20	
cis-1,2-Dichloroethene	22.090	1.0	20.00	0	110	72	126	21.87	1.00	20	
cis-1,3-Dichloropropene	20.160	1.0	20.00	0	101	69	131	20.19	0.149	20	
Di-isopropyl ether	19.480	1.0	20.00	0	97.4	70	130	19.53	0.256	20	
Dibromochloromethane	21.670	1.0	20.00	0	108	66	133	20.70	4.58	20	
Dibromomethane	21.700	1.0	20.00	0	108	76	125	21.10	2.80	20	
Dichlorodifluoromethane	19.210	1.0	20.00	0	96.0	53	153	17.43	9.72	20	
Ethyl tert-butyl ether	20.440	1.0	20.00	0	102	70	130	20.66	1.07	20	
Ethylbenzene	19.290	1.0	20.00	0	96.5	73	127	19.18	0.572	20	
Freon-113	25.730	1.0	20.00	0	129	75	125	25.66	0.272	20	S
Hexachlorobutadiene	20.460	1.0	20.00	0	102	67	131	19.80	3.28	20	
Isopropylbenzene	18.990	1.0	20.00	0	95.0	75	127	18.76	1.22	20	
m,p-Xylene	39.350	1.0	40.00	0	98.4	76	128	39.00	0.893	20	
Methylene chloride	21.090	2.0	20.00	0	105	63	137	20.70	1.87	20	
MTBE	20.350	1.0	20.00	0.3600	100	65	123	19.76	2.94	20	
n-Butylbenzene	19.220	1.0	20.00	0	96.1	69	137	18.69	2.80	20	
n-Propylbenzene	18.700	1.0	20.00	0	93.5	72	129	18.48	1.18	20	
Naphthalene	21.390	1.0	20.00	0	107	54	138	21.41	0.0935	20	
o-Xylene	19.940	1.0	20.00	0	99.7	80	121	19.59	1.77	20	
sec-Butylbenzene	18.760	1.0	20.00	0	93.8	72	127	18.37	2.10	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



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N011290
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011291-001CMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90775						
Client ID: ZZZZZZ	Batch ID: P13VW167	TestNo: EPA 8260B		Analysis Date: 10/16/2013	SeqNo: 1663532						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	19.760	1.0	20.00	0	98.8	65	134	19.91	0.756	20	
Tert-amyl methyl ether	19.290	1.0	20.00	0	96.5	70	130	19.05	1.25	20	
Tert-Butanol	97.700	5.0	100.0	0	97.7	70	130	90.56	7.59	20	
tert-Butylbenzene	19.380	1.0	20.00	0	96.9	70	129	18.71	3.52	20	
Tetrachloroethene	20.280	1.0	20.00	0	101	66	128	20.41	0.639	20	
Toluene	20.570	2.0	20.00	0	103	77	122	20.44	0.634	20	
trans-1,2-Dichloroethene	22.270	1.0	20.00	0	111	63	137	21.60	3.05	20	
trans-1,3-Dichloropropene	20.580	1.0	20.00	0	103	59	135	20.48	0.487	20	
Trichloroethene	21.060	1.0	20.00	0	105	70	127	20.63	2.06	20	
Trichlorofluoromethane	25.150	1.0	20.00	0	126	57	129	25.16	0.0398	20	
Vinyl chloride	23.030	0.50	20.00	0	115	50	134	19.82	15.0	20	
Xylenes, Total	59.290	2.0	60.00	0	98.8	75	125	58.59	1.19	20	
Surr: 1,2-Dichloroethane-d4	26.980		25.00		108	72	119		0		
Surr: 4-Bromofluorobenzene	25.650		25.00		103	76	119		0		
Surr: Dibromofluoromethane	29.690		25.00		119	85	115		0		S
Surr: Toluene-d8	26.030		25.00		104	81	120		0		

Qualifiers:

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|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131018LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90849						
Client ID: LCSW	Batch ID: P13VW168	TestNo: EPA 8260B		Analysis Date: 10/18/2013	SeqNo: 1668341						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.780	1.0	20.00	0	98.9	81	129				
1,1,1-Trichloroethane	18.430	1.0	20.00	0	92.2	67	132				
1,1,2,2-Tetrachloroethane	19.220	1.0	20.00	0	96.1	63	128				
1,1,2-Trichloroethane	19.160	1.0	20.00	0	95.8	75	125				
1,1-Dichloroethane	18.860	0.50	20.00	0	94.3	69	133				
1,1-Dichloroethene	17.510	1.0	20.00	0	87.6	68	130				
1,1-Dichloropropene	18.530	1.0	20.00	0	92.6	73	132				
1,2,3-Trichlorobenzene	20.880	1.0	20.00	0	104	67	137				
1,2,3-Trichloropropane	18.920	1.0	20.00	0	94.6	73	124				
1,2,4-Trichlorobenzene	20.960	1.0	20.00	0	105	66	134				
1,2,4-Trimethylbenzene	19.470	1.0	20.00	0	97.4	74	132				
1,2-Dibromo-3-chloropropane	20.630	2.0	20.00	0	103	50	132				
1,2-Dibromoethane	19.260	1.0	20.00	0	96.3	80	121				
1,2-Dichlorobenzene	19.810	1.0	20.00	0	99.0	71	122				
1,2-Dichloroethane	18.790	0.50	20.00	0	94.0	69	132				
1,2-Dichloropropane	18.820	1.0	20.00	0	94.1	75	125				
1,3,5-Trimethylbenzene	19.640	1.0	20.00	0	98.2	74	131				
1,3-Dichlorobenzene	19.570	1.0	20.00	0	97.9	75	124				
1,3-Dichloropropane	19.300	1.0	20.00	0	96.5	73	126				
1,4-Dichlorobenzene	19.260	1.0	20.00	0	96.3	74	123				
2,2-Dichloropropane	16.630	1.0	20.00	0	83.2	69	137				
2-Butanone	187.310	10	200.0	0	93.7	49	136				
2-Chlorotoluene	18.790	1.0	20.00	0	94.0	73	126				
4-Chlorotoluene	19.040	1.0	20.00	0	95.2	74	128				
4-Isopropyltoluene	19.830	1.0	20.00	0	99.2	73	130				
4-Methyl-2-pentanone	186.530	10	200.0	0	93.3	58	134				
Acetone	191.670	10	200.0	0	95.8	40	135				
Acrolein	180.350	20	200.0	0	90.2	75	125				
Acrylonitrile	184.160	20	200.0	0	92.1	75	125				
Benzene	18.700	1.0	20.00	0	93.5	81	122				

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 |
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**Advanced Technology
Laboratories, Inc.**

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CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131018LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90849						
Client ID: LCSW	Batch ID: P13VW168	TestNo: EPA 8260B		Analysis Date: 10/18/2013	SeqNo: 1668341						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	19.780	1.0	20.00	0	98.9	76	124				
Bromochloromethane	18.420	1.0	20.00	0	92.1	65	129				
Bromodichloromethane	19.610	1.0	20.00	0	98.0	76	121				
Bromoform	20.080	1.0	20.00	0	100	69	128				
Bromomethane	18.250	1.0	20.00	0	91.2	53	141				
Carbon disulfide	17.910	1.0	20.00	0	89.6	75	125				
Carbon tetrachloride	19.420	0.50	20.00	0	97.1	66	138				
Chlorobenzene	19.560	1.0	20.00	0	97.8	81	122				
Chloroethane	20.600	1.0	20.00	0	103	58	133				
Chloroform	18.170	1.0	20.00	0	90.9	69	128				
Chloromethane	17.480	1.0	20.00	0	87.4	56	131				
cis-1,2-Dichloroethene	18.320	1.0	20.00	0	91.6	72	126				
cis-1,3-Dichloropropene	19.110	1.0	20.00	0	95.6	69	131				
Di-isopropyl ether	17.860	1.0	20.00	0	89.3	70	130				
Dibromochloromethane	20.380	1.0	20.00	0	102	66	133				
Dibromomethane	19.620	1.0	20.00	0	98.1	76	125				
Dichlorodifluoromethane	19.150	1.0	20.00	0	95.8	53	153				
Ethyl tert-butyl ether	18.020	1.0	20.00	0	90.1	70	130				
Ethylbenzene	18.990	1.0	20.00	0	95.0	73	127				
Freon-113	18.230	1.0	20.00	0	91.2	75	125				
Hexachlorobutadiene	19.760	1.0	20.00	0	98.8	67	131				
Isopropylbenzene	19.450	1.0	20.00	0	97.3	75	127				
m,p-Xylene	38.620	1.0	40.00	0	96.6	76	128				
Methylene chloride	18.820	2.0	20.00	0	94.1	63	137				
MTBE	17.890	1.0	20.00	0	89.4	65	123				
n-Butylbenzene	19.750	1.0	20.00	0	98.8	69	137				
n-Propylbenzene	19.270	1.0	20.00	0	96.4	72	129				
Naphthalene	21.930	1.0	20.00	0	110	54	138				
o-Xylene	19.580	1.0	20.00	0	97.9	80	121				
sec-Butylbenzene	19.400	1.0	20.00	0	97.0	72	127				

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 |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131018LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90849						
Client ID: LCSW	Batch ID: P13VW168	TestNo: EPA 8260B		Analysis Date: 10/18/2013	SeqNo: 1668341						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	20.080	1.0	20.00	0	100	65	134				
Tert-amyl methyl ether	18.650	1.0	20.00	0	93.3	70	130				
Tert-Butanol	89.290	5.0	100.0	0	89.3	70	130				
tert-Butylbenzene	19.360	1.0	20.00	0	96.8	70	129				
Tetrachloroethene	19.080	1.0	20.00	0	95.4	66	128				
Toluene	18.870	2.0	20.00	0	94.4	77	122				
trans-1,2-Dichloroethene	18.520	1.0	20.00	0	92.6	63	137				
trans-1,3-Dichloropropene	19.210	1.0	20.00	0	96.0	59	135				
Trichloroethene	19.220	1.0	20.00	0	96.1	70	127				
Trichlorofluoromethane	18.890	1.0	20.00	0	94.4	57	129				
Vinyl chloride	18.030	0.50	20.00	0	90.2	50	134				
Xylenes, Total	58.200	2.0	60.00	0	97.0	75	125				
Surr: 1,2-Dichloroethane-d4	23.620		25.00		94.5	72	119				
Surr: 4-Bromofluorobenzene	25.470		25.00		102	76	119				
Surr: Dibromofluoromethane	24.090		25.00		96.4	85	115				
Surr: Toluene-d8	25.010		25.00		100	81	120				

Sample ID: P131018MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90849						
Client ID: PBW	Batch ID: P13VW168	TestNo: EPA 8260B		Analysis Date: 10/18/2013	SeqNo: 1668342						
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									

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: CH2M HILL
Work Order: N011290
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131018MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90849						
Client ID: PBW	Batch ID: P13VW168	TestNo: EPA 8260B		Analysis Date: 10/18/2013	SeqNo: 1668342						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Acrolein	ND	20									
Acrylonitrile	ND	20									
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									

Qualifiers:

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131018MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90849						
Client ID: PBW	Batch ID: P13VW168	TestNo: EPA 8260B		Analysis Date: 10/18/2013	SeqNo: 1668342						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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	ND	2.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
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									

Qualifiers:

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|--|--|--|
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CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131018MB2		SampType: MBLK		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 90849	
Client ID: PBW		Batch ID: P13VW168		TestNo: EPA 8260B		Analysis Date: 10/18/2013				SeqNo: 1668342	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	0.50									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	23.610		25.00		94.4	72	119				
Surr: 4-Bromofluorobenzene	25.120		25.00		100	76	119				
Surr: Dibromofluoromethane	23.990		25.00		96.0	85	115				
Surr: Toluene-d8	24.700		25.00		98.8	81	120				

Sample ID: N011303-005CMS		SampType: MS		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 90849	
Client ID: ZZZZZ		Batch ID: P13VW168		TestNo: EPA 8260B		Analysis Date: 10/18/2013				SeqNo: 1668344	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.350	1.0	20.00	0	96.8	81	129				
1,1,1-Trichloroethane	17.540	1.0	20.00	0	87.7	67	132				
1,1,2,2-Tetrachloroethane	19.180	1.0	20.00	0	95.9	63	128				
1,1,2-Trichloroethane	19.420	1.0	20.00	0	97.1	75	125				
1,1-Dichloroethane	18.190	0.50	20.00	0	91.0	69	133				
1,1-Dichloroethene	16.990	1.0	20.00	0	85.0	68	130				
1,1-Dichloropropene	18.630	1.0	20.00	0	93.2	73	132				
1,2,3-Trichlorobenzene	20.710	1.0	20.00	0	104	67	137				
1,2,3-Trichloropropane	18.690	1.0	20.00	0	93.5	73	124				
1,2,4-Trichlorobenzene	20.920	1.0	20.00	0	105	66	134				
1,2,4-Trimethylbenzene	19.040	1.0	20.00	0	95.2	74	132				
1,2-Dibromo-3-chloropropane	20.820	2.0	20.00	0	104	50	132				
1,2-Dibromoethane	19.770	1.0	20.00	0	98.8	80	121				
1,2-Dichlorobenzene	19.400	1.0	20.00	0	97.0	71	122				
1,2-Dichloroethane	18.720	0.50	20.00	0	93.6	69	132				
1,2-Dichloropropane	18.980	1.0	20.00	0	94.9	75	125				
1,3,5-Trimethylbenzene	19.100	1.0	20.00	0	95.5	74	131				
1,3-Dichlorobenzene	19.490	1.0	20.00	0	97.5	75	124				

Qualifiers:

- | | | |
|--|--|--|
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CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011303-005CMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90849						
Client ID: ZZZZZZ	Batch ID: P13VW168	TestNo: EPA 8260B		Analysis Date: 10/18/2013	SeqNo: 1668344						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	19.420	1.0	20.00	0	97.1	73	126				
1,4-Dichlorobenzene	19.220	1.0	20.00	0	96.1	74	123				
2,2-Dichloropropane	19.640	1.0	20.00	0	98.2	69	137				
2-Butanone	173.920	10	200.0	0	87.0	49	136				
2-Chlorotoluene	18.370	1.0	20.00	0	91.9	73	126				
4-Chlorotoluene	18.650	1.0	20.00	0	93.3	74	128				
4-Isopropyltoluene	19.520	1.0	20.00	0	97.6	73	130				
4-Methyl-2-pentanone	187.120	10	200.0	0	93.6	58	134				
Acetone	165.590	10	200.0	0	82.8	40	135				
Acrolein	179.850	20	200.0	0	89.9	75	125				
Acrylonitrile	178.780	20	200.0	0	89.4	75	125				
Benzene	18.790	1.0	20.00	0	94.0	81	122				
Bromobenzene	19.750	1.0	20.00	0	98.8	76	124				
Bromochloromethane	18.120	1.0	20.00	0	90.6	65	129				
Bromodichloromethane	19.550	1.0	20.00	0	97.8	76	121				
Bromoform	20.120	1.0	20.00	0	101	69	128				
Bromomethane	16.750	1.0	20.00	0	83.8	53	141				
Carbon disulfide	17.020	1.0	20.00	0	85.1	75	125				
Carbon tetrachloride	19.250	0.50	20.00	0	96.2	66	138				
Chlorobenzene	19.740	1.0	20.00	0	98.7	81	122				
Chloroethane	19.770	1.0	20.00	0	98.8	58	133				
Chloroform	17.460	1.0	20.00	0	87.3	69	128				
Chloromethane	16.970	1.0	20.00	0	84.8	56	131				
cis-1,2-Dichloroethene	31.510	1.0	20.00	14.78	83.7	72	126				
cis-1,3-Dichloropropene	19.450	1.0	20.00	0	97.3	69	131				
Di-isopropyl ether	16.990	1.0	20.00	0	85.0	70	130				
Dibromochloromethane	19.620	1.0	20.00	0	98.1	66	133				
Dibromomethane	19.880	1.0	20.00	0	99.4	76	125				
Dichlorodifluoromethane	18.090	1.0	20.00	0	90.4	53	153				
Ethyl tert-butyl ether	17.240	1.0	20.00	0	86.2	70	130				

Qualifiers:

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CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011303-005CMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90849						
Client ID: ZZZZZZ	Batch ID: P13VW168	TestNo: EPA 8260B		Analysis Date: 10/18/2013	SeqNo: 1668344						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	18.840	1.0	20.00	0	94.2	73	127				
Freon-113	17.690	1.0	20.00	0	88.4	75	125				
Hexachlorobutadiene	19.480	1.0	20.00	0	97.4	67	131				
Isopropylbenzene	19.000	1.0	20.00	0	95.0	75	127				
m,p-Xylene	38.630	1.0	40.00	0	96.6	76	128				
Methylene chloride	17.770	2.0	20.00	0	88.8	63	137				
MTBE	17.050	1.0	20.00	0	85.2	65	123				
n-Butylbenzene	19.430	1.0	20.00	0	97.2	69	137				
n-Propylbenzene	18.850	1.0	20.00	0	94.3	72	129				
Naphthalene	21.970	1.0	20.00	0	110	54	138				
o-Xylene	19.430	1.0	20.00	0	97.2	80	121				
sec-Butylbenzene	19.100	1.0	20.00	0	95.5	72	127				
Styrene	19.540	1.0	20.00	0	97.7	65	134				
Tert-amyl methyl ether	19.010	1.0	20.00	0	95.1	70	130				
Tert-Butanol	90.240	5.0	100.0	0	90.2	70	130				
tert-Butylbenzene	19.050	1.0	20.00	0	95.2	70	129				
Tetrachloroethene	41.240	1.0	20.00	23.22	90.1	66	128				
Toluene	19.170	2.0	20.00	0	95.9	77	122				
trans-1,2-Dichloroethene	18.060	1.0	20.00	0.3600	88.5	63	137				
trans-1,3-Dichloropropene	19.590	1.0	20.00	0	98.0	59	135				
Trichloroethene	33.350	1.0	20.00	13.41	99.7	70	127				
Trichlorofluoromethane	18.320	1.0	20.00	0	91.6	57	129				
Vinyl chloride	17.370	0.50	20.00	0	86.9	50	134				
Xylenes, Total	58.060	2.0	60.00	0	96.8	75	125				
Surr: 1,2-Dichloroethane-d4	22.420		25.00		89.7	72	119				
Surr: 4-Bromofluorobenzene	25.250		25.00		101	76	119				
Surr: Dibromofluoromethane	23.420		25.00		93.7	85	115				
Surr: Toluene-d8	25.220		25.00		101	81	120				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
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CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011303-005CMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90849						
Client ID: ZZZZZZ	Batch ID: P13VW168	TestNo: EPA 8260B		Analysis Date: 10/18/2013	SeqNo: 1668345						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.930	1.0	20.00	0	99.7	81	129	19.35	2.95	20	
1,1,1-Trichloroethane	18.270	1.0	20.00	0	91.4	67	132	17.54	4.08	20	
1,1,2,2-Tetrachloroethane	20.100	1.0	20.00	0	101	63	128	19.18	4.68	20	
1,1,2-Trichloroethane	19.810	1.0	20.00	0	99.0	75	125	19.42	1.99	20	
1,1-Dichloroethane	18.650	0.50	20.00	0	93.3	69	133	18.19	2.50	20	
1,1-Dichloroethene	17.420	1.0	20.00	0	87.1	68	130	16.99	2.50	20	
1,1-Dichloropropene	19.340	1.0	20.00	0	96.7	73	132	18.63	3.74	20	
1,2,3-Trichlorobenzene	21.230	1.0	20.00	0	106	67	137	20.71	2.48	20	
1,2,3-Trichloropropane	19.210	1.0	20.00	0	96.0	73	124	18.69	2.74	20	
1,2,4-Trichlorobenzene	21.010	1.0	20.00	0	105	66	134	20.92	0.429	20	
1,2,4-Trimethylbenzene	19.960	1.0	20.00	0	99.8	74	132	19.04	4.72	20	
1,2-Dibromo-3-chloropropane	21.260	2.0	20.00	0	106	50	132	20.82	2.09	20	
1,2-Dibromoethane	20.310	1.0	20.00	0	102	80	121	19.77	2.69	20	
1,2-Dichlorobenzene	20.040	1.0	20.00	0	100	71	122	19.40	3.25	20	
1,2-Dichloroethane	19.320	0.50	20.00	0	96.6	69	132	18.72	3.15	20	
1,2-Dichloropropane	19.520	1.0	20.00	0	97.6	75	125	18.98	2.81	20	
1,3,5-Trimethylbenzene	20.010	1.0	20.00	0	100	74	131	19.10	4.65	20	
1,3-Dichlorobenzene	20.150	1.0	20.00	0	101	75	124	19.49	3.33	20	
1,3-Dichloropropane	20.270	1.0	20.00	0	101	73	126	19.42	4.28	20	
1,4-Dichlorobenzene	19.710	1.0	20.00	0	98.6	74	123	19.22	2.52	20	
2,2-Dichloropropane	20.170	1.0	20.00	0	101	69	137	19.64	2.66	20	
2-Butanone	185.300	10	200.0	0	92.6	49	136	173.9	6.34	20	
2-Chlorotoluene	19.150	1.0	20.00	0	95.8	73	126	18.37	4.16	20	
4-Chlorotoluene	19.360	1.0	20.00	0	96.8	74	128	18.65	3.74	20	
4-Isopropyltoluene	20.090	1.0	20.00	0	100	73	130	19.52	2.88	20	
4-Methyl-2-pentanone	194.730	10	200.0	0	97.4	58	134	187.1	3.99	20	
Acetone	180.240	10	200.0	0	90.1	40	135	165.6	8.47	20	
Acrolein	187.140	20	200.0	0	93.6	75	125	179.8	3.97	20	
Acrylonitrile	185.940	20	200.0	0	93.0	75	125	178.8	3.93	20	
Benzene	19.430	1.0	20.00	0	97.2	81	122	18.79	3.35	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 |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011290
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011303-005CMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90849						
Client ID: ZZZZZZ	Batch ID: P13VW168	TestNo: EPA 8260B		Analysis Date: 10/18/2013	SeqNo: 1668345						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	20.300	1.0	20.00	0	102	76	124	19.75	2.75	20	
Bromochloromethane	18.670	1.0	20.00	0	93.4	65	129	18.12	2.99	20	
Bromodichloromethane	20.060	1.0	20.00	0	100	76	121	19.55	2.58	20	
Bromoform	20.270	1.0	20.00	0	101	69	128	20.12	0.743	20	
Bromomethane	18.060	1.0	20.00	0	90.3	53	141	16.75	7.53	20	
Carbon disulfide	17.610	1.0	20.00	0	88.0	75	125	17.02	3.41	20	
Carbon tetrachloride	19.750	0.50	20.00	0	98.8	66	138	19.25	2.56	20	
Chlorobenzene	20.190	1.0	20.00	0	101	81	122	19.74	2.25	20	
Chloroethane	19.840	1.0	20.00	0	99.2	58	133	19.77	0.353	20	
Chloroform	18.010	1.0	20.00	0	90.1	69	128	17.46	3.10	20	
Chloromethane	17.560	1.0	20.00	0	87.8	56	131	16.97	3.42	20	
cis-1,2-Dichloroethene	32.710	1.0	20.00	14.78	89.7	72	126	31.51	3.74	20	
cis-1,3-Dichloropropene	20.050	1.0	20.00	0	100	69	131	19.45	3.04	20	
Di-isopropyl ether	17.740	1.0	20.00	0	88.7	70	130	16.99	4.32	20	
Dibromochloromethane	20.440	1.0	20.00	0	102	66	133	19.62	4.09	20	
Dibromomethane	20.270	1.0	20.00	0	101	76	125	19.88	1.94	20	
Dichlorodifluoromethane	18.870	1.0	20.00	0	94.4	53	153	18.09	4.22	20	
Ethyl tert-butyl ether	18.060	1.0	20.00	0	90.3	70	130	17.24	4.65	20	
Ethylbenzene	19.570	1.0	20.00	0	97.9	73	127	18.84	3.80	20	
Freon-113	18.070	1.0	20.00	0	90.4	75	125	17.69	2.13	20	
Hexachlorobutadiene	19.480	1.0	20.00	0	97.4	67	131	19.48	0	20	
Isopropylbenzene	19.670	1.0	20.00	0	98.4	75	127	19.00	3.47	20	
m,p-Xylene	39.690	1.0	40.00	0	99.2	76	128	38.63	2.71	20	
Methylene chloride	18.710	2.0	20.00	0	93.6	63	137	17.77	5.15	20	
MTBE	17.750	1.0	20.00	0	88.8	65	123	17.05	4.02	20	
n-Butylbenzene	20.180	1.0	20.00	0	101	69	137	19.43	3.79	20	
n-Propylbenzene	19.530	1.0	20.00	0	97.6	72	129	18.85	3.54	20	
Naphthalene	22.750	1.0	20.00	0	114	54	138	21.97	3.49	20	
o-Xylene	20.030	1.0	20.00	0	100	80	121	19.43	3.04	20	
sec-Butylbenzene	19.600	1.0	20.00	0	98.0	72	127	19.10	2.58	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 |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N011290
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011303-005CMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 90849						
Client ID: ZZZZZZ	Batch ID: P13VW168	TestNo: EPA 8260B		Analysis Date: 10/18/2013	SeqNo: 1668345						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	20.320	1.0	20.00	0	102	65	134	19.54	3.91	20	
Tert-amyl methyl ether	19.410	1.0	20.00	0	97.0	70	130	19.01	2.08	20	
Tert-Butanol	93.240	5.0	100.0	0	93.2	70	130	90.24	3.27	20	
tert-Butylbenzene	19.640	1.0	20.00	0	98.2	70	129	19.05	3.05	20	
Tetrachloroethene	42.910	1.0	20.00	23.22	98.5	66	128	41.24	3.97	20	
Toluene	19.470	2.0	20.00	0	97.4	77	122	19.17	1.55	20	
trans-1,2-Dichloroethene	18.930	1.0	20.00	0.3600	92.8	63	137	18.06	4.70	20	
trans-1,3-Dichloropropene	19.950	1.0	20.00	0	99.8	59	135	19.59	1.82	20	
Trichloroethene	33.910	1.0	20.00	13.41	103	70	127	33.35	1.67	20	
Trichlorofluoromethane	18.800	1.0	20.00	0	94.0	57	129	18.32	2.59	20	
Vinyl chloride	17.800	0.50	20.00	0	89.0	50	134	17.37	2.45	20	
Xylenes, Total	59.720	2.0	60.00	0	99.5	75	125	58.06	2.82	20	
Surr: 1,2-Dichloroethane-d4	23.050		25.00		92.2	72	119		0		
Surr: 4-Bromofluorobenzene	25.750		25.00		103	76	119		0		
Surr: Dibromofluoromethane	23.770		25.00		95.1	85	115		0		
Surr: Toluene-d8	25.360		25.00		101	81	120		0		

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
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Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CHAIN OF CUSTODY RECORD

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

DATE: 10/15/13
 PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh 1100 Town & Country Road Orange, CA 92868 TEL: <u>714-560-4802</u> FAX: <u>714-560-4601</u> E-MAIL: <u>James.dye@kindermorgan.com</u>		CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site PROJECT CONTACT: James Dye SAMPLER(S): (SIGNATURE) _____	
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL <u> / / </u>		REQUESTED ANALYSIS	
SPECIAL INSTRUCTIONS Report to D. Jablonski/CH2M HILL, cc: KMEP Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.		Full VOC + Oxygenates List (8260B) <input checked="" type="checkbox"/> X TPH - g, TPH-d, and TPH-oil (8015M) <input checked="" type="checkbox"/> X	
SAMPLE ID INF-10-15		LOCATION/ DESCRIPTION Influent	
DATE 10/15/13		TIME 12:15	
MAT- RIX WW		NO. OF CONT. 8	
Comments NO11290 -1			

IR #2 46C

Relinquished by: (Signature) _____
 Received by: (Signature) Andre S. Larn
 Date: 10-15-13 Time: 1700
 Relinquished by: (Signature) _____
 Received by: (Signature) Andre S. Larn
 Date: 10-15-13 Time: 1745
 Relinquished by: (Signature) _____
 Received by: (Signature) Andre S. Larn
 Date: 10/16/13 Time: 0915

Advanced Technology Laboratories, Inc.

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: 10/16/2013 Workorder: N011290
 Rep sample Temp (Deg C): 4.6 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: GSO
 Last 4 digits of Tracking No.: 5669 Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input 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: HG 10/16/2013

Reviewed By: *E. Fajal*

1-800-322-5555
WWW.GSO.COM

4 SHIPPING AIR BILL
 PACKAGE INFORMATION:
 LETTER (MAX 8 OZ)
 PACKAGE (WT) _____
 DECLARED VALUE \$ _____
 COD AMOUNT \$ _____
 (CASH NOT ACCEPTED)

5 DELIVERY SERVICE
 PRIORITY OVERNIGHT BY 10:30 AM
 EARLY PRIORITY BY 8:00 AM
 SATURDAY DELIVERY

6 RELEASE SIGNATURE

7 _____

8 PICK UP INFORMATION
 TIME _____ DRIVER # _____
 ROUTE # _____

9 GSO TRACKING NUMBER
107335669

PEEL OFF HERE

107335669

1 FROM

DATE 10/15/13
 COMPANY A TL INC.
 ADDRESS 11060 Artesia Blvd.
 ADDRESS STE/ ROOM _____
 CITY CERRITOS, CA ZIP CODE 90703
 SENDERS NAME WENEYWARD LANN PHONE NUMBER (62) 618-1812
 COMPANY A TL INC.

2 TO

NAME MARLON CARTIN
 ADDRESS 3751 W. POST. RD.
 ADDRESS _____
 CITY LAS VEGAS, NV STE/ ROOM _____
 ZIP CODE 89118

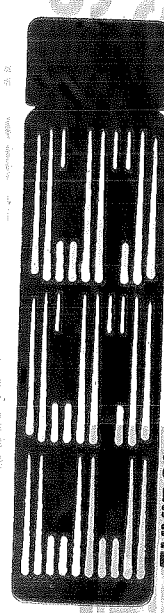
3 SPECIAL INSTRUCTIONS
 YOUR INTERNAL BILLING REFERENCE WILL APPEAR ON YOUR INVOICE
 CH2M HILL, NORWALK

PLEASE PRESS FIRMLY

BEFORE ACCEPTING

CHECK CONTENTS

ENVIRONMENTAL SAMPLING SUPPLY
ULTRA CLEANED CONTAINERS



ENVIRONMENTAL SAMPLING SUPPLY
ULTRA CLEANED CONTAINERS

IF SEAL IS BROKEN
CHECK CONTENTS
BEFORE ACCEPTING

STODY SEAL

CUSTODY SEAL

BEFORE ACCEPTING

1-800-322-5555
WWW.GSO.COM



SHIPPING AIR BILL

4 PACKAGE INFORMATION
 LETTER (MAX 8 OZ)
 PACKAGE (WT) _____
 DECLARED VALUE \$ _____
 COD AMOUNTS (CASH NOT ACCEPTED) _____

5 DELIVERY SERVICE
 PRIORITY OVERNIGHT BY 10:30 AM
 EARLY PRIORITY BY 8:00 AM
 SATURDAY DELIVERY

*DELIVERY TIMES MAY BE LATER IN SOME AREAS • CONSULT YOUR SERVICE GUIDE OR CALL GOLDEN STATE OVERNIGHT.

6 RELEASE SIGNATURE _____
SIGN TO AUTHORIZE DELIVERY WITHOUT OBTAINING SIGNATURE

7 _____

8 PICK UP INFORMATION _____ TIME _____ DRIVER # _____ ROUTE # _____

9 GSO TRACKING NUMBER
107335667
 PEEL OFF HERE

 107335667

1 FROM
 DATE 10/15/13
 COMPANY ATL INC.
 ADDRESS 71060 Artesia Blvd,
 CITY CARLISLE CA 90703
 ZIP CODE 90703
 PHONE NUMBER (562) 618-1867

2 TO
 COMPANY ATL INC
 NAME MARLON CARTIN
 ADDRESS 3151 W. POST RD.,
 CITY LAS VEGAS, NV 89118
 STATE NV
 ZIP CODE 89118

3 _____
YOUR INTERNAL BILLING REFERENCE WILL APPEAR IN YOUR INVOICE

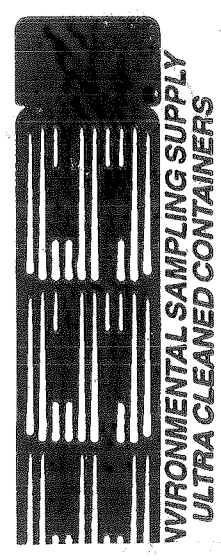
CUSTODY SEAL

**IF SEAL IS BROKEN
 CHECK CONTENTS
 BEFORE ACCEPTING**

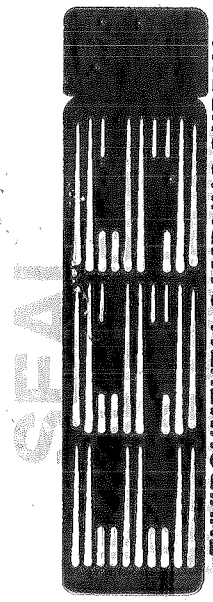


**ENVIRONMENTAL SAMPLING SUPPLY
 ULTRA CLEANERS**

**IF SEAL IS BROKEN
 CHECK CONTENTS
 BEFORE ACCEPTING**



CUSTODY SEAL



**ENVIRONMENTAL SAMPLING SUPPLY
 ULTRA CLEANED CONTAINERS**

PLEASE PRESS FIRMLY

PLEASE PRESS FIRMLY



GOLDEN STATE OVERNIGHT

1-800-322-5555

WWW.GSO.COM

SHIPPING AIR BILL

PACKAGE LABEL

- 4 PACKAGE INFORMATION
- LETTER (MAX 8 OZ)
- PACKAGE (MT)
- DECLARED VALUE \$
- COD AMOUNT \$ (CASH NOT ACCEPTED)

- 5 DELIVERY SERVICE
- PRIORITY OVERNIGHT BY 10:30 AM
- EARLY PRIORITY BY 8:00 AM
- SATURDAY DELIVERY

*DELIVERY TIMES MAY BE LATER IN SOME AREAS * CONSULT YOUR SERVICE GUIDE OR CALL GOLDEN STATE OVERNIGHT.

6 RELEASE SIGNATURE

SIGN TO AUTHORIZE DELIVERY WITHOUT OBTAINING SIGNATURE

7

8 PICK UP INFORMATION

TIME DRIVER # ROUTE #

107335661

REEL OFF HERE



107335661

9 GSO TRACKING NUMBER

1 FROM

DATE 10-15-13

COMPANY ATL INC.

ADDRESS 11060 Arroyo Blvd.

CITY CORNELIUS, CA

SENDERS NAME MEYHARD LOAN

STE/ROOM 90702

ZIP CODE

PHONE NUMBER (522) 618-1862

2 TO

COMPANY ATL INC.

NAME MARLON CARTN

ADDRESS 151 W. POST RD.

CITY VEGAS, NV

STE/ROOM 89118

ZIP CODE

PHONE NUMBER (702) 207-2659

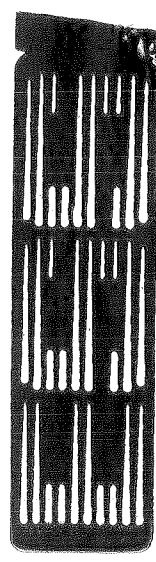
3 YOUR INTERNAL BILLING REFERENCE WILL APPEAR ON YOUR INVOICE

SPECIAL INSTRUCTIONS

CH2M HILL - NO WALK

CUSTODY SEAL

IF SEAL IS BROKEN
CHECK CONTENTS
BEFORE ACCEPTING



ENVIRONMENTAL SAMPLING STOP
ULTRA CLEANED CONTAINERS

PLEASE PRESS FIRMLY

Advanced Technology Laboratories, Inc.

WORK ORDER Summary

16-Oct-13

WorkOrder: N011290

Client ID: CH2HI01

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 10/16/2013

Comments: Report to D. Jablonski/CH2M HILL, cc:KMEP.

Direct Bill KMEP/SFPP-Steve Defibaugh-ref.AFE# 81195. "J" Flags r

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N011290-001A	INF-10-15	10/15/2013 12:15:00 PM	10/23/2013	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N011290-001B			10/23/2013		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N011290-001C			10/23/2013		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/23/2013		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/23/2013		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N011290-002A	FOLDER		10/23/2013		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

November 20, 2013

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612
TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.:2676
NV Cert. No.:NV-009222007A

Workorder No.: N011452

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on November 13, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The attached report is the final hard copy pertaining to the subcontracted tests for the above project.

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,



Jose Tenorio Jr.
Laboratory Director

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



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

ED 11/13/13
 E111313-01
 E1113 01 -01

CHAIN OF CUSTODY RECORD

DATE: 11/13/13
 PAGE: 1 OF 1

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

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh ADDRESS: 1100 Town & Country Road CITY: Orange, CA 92868 TEL: 714-560-4802 FAX: 714-560-4601 E-MAIL: james.dye@kindermorgan.com TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWOCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL / / SPECIAL INSTRUCTIONS Report to D. Jablonski/CH2M HILL, cc: KMEP Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.		CLIENT PROJECT NAME/NUMBER: SFPP - Norwalk Site PROJECT CONTACT: James Dye SAMPLER(S) (SIGNATURE)	P.O. NO.: QUOTE NO.: LAB USE ONLY																																																																																																																																																																																																																																							
<p>REQUESTED ANALYSIS</p> <table border="1"> <thead> <tr> <th>LAB USE ONLY</th> <th>SAMPLE ID</th> <th>LOCATION/DESCRIPTION</th> <th>SAMPLING DATE</th> <th>TIME</th> <th>MAT-RIX</th> <th>NO. OF CONT.</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td></td> <td>01 VINP-11-12</td> <td>Influent Vapor (from header)</td> <td>11/12/13</td> <td>13:55</td> <td>Air</td> <td>4</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	TIME	MAT-RIX	NO. OF CONT.	Comments		01 VINP-11-12	Influent Vapor (from header)	11/12/13	13:55	Air	4																																																																																																																																																																																																																										
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Advanced Technology Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

ATL-Industry

TEL:
FAX:
Acct #:

Field Sampler: James Dye

City of Industry, CA

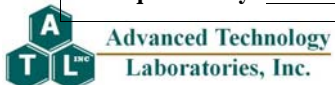
13-Nov-13

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				ASTM D1946	EPA TO15	EPA TO3
N011452-001A / VINP-11-12	Air	11/12/2013 1:15:00 PM	BAG		1	1
N011452-001B / VINP-11-12	Air	11/12/2013 1:15:00 PM	BAG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N011452 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by: standard TAT. SFPP Norwalk monthly samples.

Relinquished by: _____	Date/Time	Received by: _____	Date/Time
Relinquished by: _____	2013-11-13	Received by: _____	_____



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

November 20, 2013

Advanced Technology Labs, Inc.
ATTN: Marlon Cartin
3151-3153 W. Post Rd.
Las Vegas, NV 89118



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



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

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: N011452
Lab Number: E111301-01

Enclosed are results for sample(s) received 11/13/13 by Air Technology Laboratories. 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).

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 black ink that reads 'Mark Johnson'.

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

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

F111301-01



Advanced Technology Laboratories
 3151-3153 W Post Rd., Las Vegas, NV 89118
 www.atl-labs.com
 TEL: 7023072659 FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:
ATL-Industry

Field Sampler: James Dye

City of Industry, CA

13-Nov-13

TEL:
FAX:
Acct #:


Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				ASTM D1946	EPA TO15
N011452-001A / VINP-11-12	Air	11/12/2013 1:15:00 PM	BAG		1
N011452-001B / VINP-11-12	Air	11/12/2013 1:15:00 PM	BAG	1	1

01

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N011452 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by: standard TAT. SFPP Norwalk monthly samples.

Relinquished by:	Date/Time	Received by:	Date/Time
<i>[Signature]</i>	2013-11-13	<i>[Signature]</i>	11/13/13
Relinquished by:		Received by:	<i>Not signed</i>



Advanced Technology Laboratories, Inc.
 3151 W Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N011452
Date Received: 11/12/13
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	E111301-01							
Client Sample I.D.:	N011452-001A / VINP-11-12							
Date Sampled:	11/12/13							
Date Analyzed:	11/15/13							
QC Batch No.:	131115MS2A1							
Analyst Initials:	DT							
Dilution Factor:	15							
ANALYTE	Result ppbv	RL ppbv						
Dichlorodifluoromethane (12)	ND	15						
Chloromethane	ND	30						
1,2-CI-1,1,2,2-F ethane (114)	ND	15						
Vinyl Chloride	ND	15						
Bromomethane	ND	15						
Chloroethane	ND	15						
Trichlorofluoromethane (11)	ND	15						
1,1-Dichloroethene	ND	15						
Carbon Disulfide	ND	75						
1,1,2-CI 1,2,2-F ethane (113)	ND	15						
Acetone	ND	75						
Methylene Chloride	ND	15						
t-1,2-Dichloroethene	ND	15						
1,1-Dichloroethane	ND	15						
Vinyl Acetate	ND	75						
c-1,2-Dichloroethene	ND	15						
2-Butanone	ND	15						
t-Butyl Methyl Ether (MTBE)	ND	15						
Chloroform	ND	15						
1,1,1-Trichloroethane	ND	15						
Carbon Tetrachloride	ND	15						
Benzene	2,900	15						
1,2-Dichloroethane	ND	15						
Trichloroethene	ND	15						
1,2-Dichloropropane	ND	15						
Bromodichloromethane	ND	15						
c-1,3-Dichloropropene	ND	15						
4-Methyl-2-Pentanone	ND	15						
Toluene	2,600	15						
t-1,3-Dichloropropene	ND	15						




Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N011452
Date Received: 11/12/13
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	E111301-01							
Client Sample I.D.:	N011452-001A / VINP-11-12							
Date Sampled:	11/12/13							
Date Analyzed:	11/15/13							
QC Batch No.:	131115MS2A1							
Analyst Initials:	DT							
Dilution Factor:	15							
ANALYTE	Result ppbv	RL ppbv						
1,1,2-Trichloroethane	ND	15						
Tetrachloroethene	ND	15						
2-Hexanone	ND	15						
Dibromochloromethane	ND	15						
1,2-Dibromoethane	ND	15						
Chlorobenzene	ND	15						
Ethylbenzene	440	15						
p.&m-Xylene	1,500	15						
o-Xylene	430	15						
Styrene	16	15						
Bromoform	ND	15						
1,1,2,2-Tetrachloroethane	ND	30						
Benzyl Chloride	ND	15						
4-Ethyl Toluene	340	15						
1,3,5-Trimethylbenzene	110	30						
1,2,4-Trimethylbenzene	210	30						
1,3-Dichlorobenzene	ND	15						
1,4-Dichlorobenzene	ND	15						
1,2-Dichlorobenzene	ND	15						
1,2,4-Trichlorobenzene	ND	30						
Hexachlorobutadiene	ND	15						

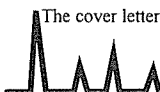
ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: _____


Mark Johnson
 Operations Manager

Date 4/20/13

The cover letter is an integral part of this analytical report



QC Batch #: 131115MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	11/15/13		11/15/13	11/15/13							
Data File ID:	15NOV009.D		15NOV008.D	15NOV012.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	11.1	111	11.1	111	0.4	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.6	106	10.6	106	0.2	70	130	30	Pass
Trichloroethene	0.0	10.0	9.7	97	9.7	97	0.1	70	130	30	Pass
Toluene	0.1	10.0	10.1	100	9.9	98	2.2	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.1	81	7.8	78	3.1	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 11/20/13

The cover letter is an integral part of this analytical report



Client: Advanced Technology Laboratories

Attn: Marlon Cartin

Project Name: NA

Project No.: N011452

Date Received: 11/12/13

Matrix: Air

Reporting Units: ppmv

EPA METHOD TO3

Lab No.:	E111301-01						
Client Sample I.D.:	N011452-001A / VINP-11-12						
Date Sampled:	11/12/13						
Date Analyzed:	11/14/13						
QC Batch No.:	131114GC11A1						
Analyst Initials:	VM						
Dilution Factor:	10						
ANALYTE	Result ppmv	RL ppmv					
TVOC as Gasoline	430	10					

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
Mark Johnson
Operations Manager

Date 11/20/13

The cover letter is an integral part of this analytical report



QC Batch No: 131114GC11A1

Matrix: Air

Reporting Units: ppmv

EPA Method TO3									
LABORATORY CONTROL SAMPLE SUMMARY									

Lab No.:	METHOD BLANK	LCS		LCSD						
Date Analyzed:	11/14/13	11/14/13		11/14/13						
Analyst Initials:	VM	VM		VM						
Dilution Factor:	1.0	1.0		1.0						
ANALYTE	Result ppmv	RL ppmv	Result ppmv	% Rec.	Result ppmv	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
TVOC as Gasoline	ND	1.0	79	86	78	85	1.0	70	130	25

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____
Mark Johnson
Mark Johnson
Operations Manager

Date 11/20/13

The cover letter is an integral part of this analytical report



Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N011452
Date Received: 11/12/13
Matrix: Air
Reporting Units: % v/v

ASTM D1946							
Lab No.:	E111301-01						
Client Sample I.D.:	N011452-001A / VINF-11-12						
Date Sampled:	11/12/13						
Date Analyzed:	11/13/13						
QC Batch No.:	131113GC8A1						
Analyst Initials:	AS						
Dilution Factor:	1.0						
ANALYTE	Result % v/v	RL % v/v					
Carbon Dioxide	0.66	0.010					
Oxygen/Argon	21	0.50					
Methane	0.012	0.0010					

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 11-20-13

The cover letter is an integral part of this analytical report



QC Batch No.: 131113GC8A1

Matrix: Air

Units: % v/v

QC for ASTM D1946

Lab No.:	Method Blank	LCS	LCS D					
Date Analyzed:	11/13/13	11/13/13	11/13/13					
Analyst Initials:	AS	AS	AS					
Datafile:	13nov006	13nov027	13nov028					
Dilution Factor:	1.0	1.0	1.0					
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Carbon Dioxide	ND	0.010	100	70-130%	99	70-130%	1.2	<30
Oxygen/Argon	ND	0.50	100	70-130%	99	70-130%	1.0	<30
Methane	ND	0.0010	107	70-130%	107	70-130%	0.5	<30

ND = Not Detected (Below RL)

Reviewed/Approved By:



Mark J. Johnson
Operations Manager

Date: 11-20-13

The cover letter is an integral part of this analytical report



November 20, 2013

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612
TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.:2676
NV Cert. No.:NV-009222007A

Workorder No.: N011451

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on November 13, 2013 by Advanced Technology Laboratories, Inc. . 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,



Jose Tenorio Jr.
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.



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N011451

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 8260B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for QC samples N011455-001FMS and N011455-001FMSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N011451
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N011451-001A	INF-11-12	Wastewater	11/12/2013 1:25:00 PM	11/13/2013	11/20/2013
N011451-001B	INF-11-12	Wastewater	11/12/2013 1:25:00 PM	11/13/2013	11/20/2013
N011451-001C	INF-11-12	Wastewater	11/12/2013 1:25:00 PM	11/13/2013	11/20/2013



Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 20-Nov-13

CLIENT: CH2M HILL
Lab Order: N011451
Project: SFPP - Norwalk Site
Lab ID: N011451-001

Client Sample ID: INF-11-12
Collection Date: 11/12/2013 1:25:00 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: MS5_131118A	QC Batch: P13VW185	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	1.0	ug/L	1	11/18/2013 10:22 PM
1,1,1-Trichloroethane	ND	0.072	1.0	ug/L	1	11/18/2013 10:22 PM
1,1,2,2-Tetrachloroethane	ND	0.10	1.0	ug/L	1	11/18/2013 10:22 PM
1,1,2-Trichloroethane	ND	0.13	1.0	ug/L	1	11/18/2013 10:22 PM
1,1-Dichloroethane	ND	0.062	0.50	ug/L	1	11/18/2013 10:22 PM
1,1-Dichloroethene	ND	0.16	1.0	ug/L	1	11/18/2013 10:22 PM
1,1-Dichloropropene	ND	0.073	1.0	ug/L	1	11/18/2013 10:22 PM
1,2,3-Trichlorobenzene	ND	0.084	1.0	ug/L	1	11/18/2013 10:22 PM
1,2,3-Trichloropropane	ND	0.11	1.0	ug/L	1	11/18/2013 10:22 PM
1,2,4-Trichlorobenzene	ND	0.10	1.0	ug/L	1	11/18/2013 10:22 PM
1,2,4-Trimethylbenzene	220	0.36	10	ug/L	10	11/18/2013 09:54 PM
1,2-Dibromo-3-chloropropane	ND	0.34	2.0	ug/L	1	11/18/2013 10:22 PM
1,2-Dibromoethane	ND	0.090	1.0	ug/L	1	11/18/2013 10:22 PM
1,2-Dichlorobenzene	ND	0.048	1.0	ug/L	1	11/18/2013 10:22 PM
1,2-Dichloroethane	1.6	0.044	0.50	ug/L	1	11/18/2013 10:22 PM
1,2-Dichloropropane	ND	0.094	1.0	ug/L	1	11/18/2013 10:22 PM
1,3,5-Trimethylbenzene	81	0.054	1.0	ug/L	1	11/18/2013 10:22 PM
1,3-Dichlorobenzene	ND	0.061	1.0	ug/L	1	11/18/2013 10:22 PM
1,3-Dichloropropane	ND	0.081	1.0	ug/L	1	11/18/2013 10:22 PM
1,4-Dichlorobenzene	ND	0.078	1.0	ug/L	1	11/18/2013 10:22 PM
2,2-Dichloropropane	ND	0.061	1.0	ug/L	1	11/18/2013 10:22 PM
2-Butanone	ND	0.70	10	ug/L	1	11/18/2013 10:22 PM
2-Chlorotoluene	ND	0.054	1.0	ug/L	1	11/18/2013 10:22 PM
4-Chlorotoluene	ND	0.039	1.0	ug/L	1	11/18/2013 10:22 PM
4-Isopropyltoluene	5.4	0.044	1.0	ug/L	1	11/18/2013 10:22 PM
4-Methyl-2-pentanone	ND	0.59	10	ug/L	1	11/18/2013 10:22 PM
Acetone	23	1.2	10	ug/L	1	11/18/2013 10:22 PM
Acrolein	ND	0.89	20	ug/L	1	11/18/2013 10:22 PM
Acrylonitrile	ND	0.68	20	ug/L	1	11/18/2013 10:22 PM
Benzene	570	0.48	10	ug/L	10	11/18/2013 09:54 PM
Bromobenzene	ND	0.054	1.0	ug/L	1	11/18/2013 10:22 PM
Bromochloromethane	ND	0.15	1.0	ug/L	1	11/18/2013 10:22 PM
Bromodichloromethane	ND	0.048	1.0	ug/L	1	11/18/2013 10:22 PM
Bromoform	ND	0.18	1.0	ug/L	1	11/18/2013 10:22 PM
Bromomethane	ND	0.13	1.0	ug/L	1	11/18/2013 10:22 PM
Carbon disulfide	1.3	0.040	1.0	ug/L	1	11/18/2013 10:22 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



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 20-Nov-13

CLIENT: CH2M HILL
Lab Order: N011451
Project: SFPP - Norwalk Site
Lab ID: N011451-001

Client Sample ID: INF-11-12
Collection Date: 11/12/2013 1:25:00 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: MS5_131118A	QC Batch: P13VW185	PrepDate:	Analyst: QBM			
Carbon tetrachloride	ND	0.057	0.50	ug/L	1	11/18/2013 10:22 PM
Chlorobenzene	ND	0.044	1.0	ug/L	1	11/18/2013 10:22 PM
Chloroethane	ND	0.17	1.0	ug/L	1	11/18/2013 10:22 PM
Chloroform	ND	0.048	1.0	ug/L	1	11/18/2013 10:22 PM
Chloromethane	ND	0.043	1.0	ug/L	1	11/18/2013 10:22 PM
cis-1,2-Dichloroethene	ND	0.057	1.0	ug/L	1	11/18/2013 10:22 PM
cis-1,3-Dichloropropene	ND	0.051	1.0	ug/L	1	11/18/2013 10:22 PM
Di-isopropyl ether	20	0.038	1.0	ug/L	1	11/18/2013 10:22 PM
Dibromochloromethane	ND	0.070	1.0	ug/L	1	11/18/2013 10:22 PM
Dibromomethane	ND	0.11	1.0	ug/L	1	11/18/2013 10:22 PM
Dichlorodifluoromethane	ND	0.054	1.0	ug/L	1	11/18/2013 10:22 PM
Ethyl tert-butyl ether	ND	0.061	1.0	ug/L	1	11/18/2013 10:22 PM
Ethylbenzene	99	0.36	10	ug/L	10	11/18/2013 09:54 PM
Freon-113	ND	0.15	1.0	ug/L	1	11/18/2013 10:22 PM
Hexachlorobutadiene	ND	0.070	1.0	ug/L	1	11/18/2013 10:22 PM
Isopropylbenzene	14	0.073	1.0	ug/L	1	11/18/2013 10:22 PM
m,p-Xylene	490	1.4	10	ug/L	10	11/18/2013 09:54 PM
Methylene chloride	ND	0.28	2.0	ug/L	1	11/18/2013 10:22 PM
MTBE	89	0.98	10	ug/L	10	11/18/2013 09:54 PM
n-Butylbenzene	8.4	0.076	1.0	ug/L	1	11/18/2013 10:22 PM
n-Propylbenzene	29	0.049	1.0	ug/L	1	11/18/2013 10:22 PM
Naphthalene	70	0.10	1.0	ug/L	1	11/18/2013 10:22 PM
o-Xylene	170	0.42	10	ug/L	10	11/18/2013 09:54 PM
sec-Butylbenzene	6.0	0.036	1.0	ug/L	1	11/18/2013 10:22 PM
Styrene	ND	0.040	1.0	ug/L	1	11/18/2013 10:22 PM
Tert-amyl methyl ether	ND	0.054	1.0	ug/L	1	11/18/2013 10:22 PM
Tert-Butanol	550	10	50	ug/L	10	11/18/2013 09:54 PM
tert-Butylbenzene	ND	0.040	1.0	ug/L	1	11/18/2013 10:22 PM
Tetrachloroethene	ND	0.12	1.0	ug/L	1	11/18/2013 10:22 PM
Toluene	230	0.34	20	ug/L	10	11/18/2013 09:54 PM
trans-1,2-Dichloroethene	ND	0.11	1.0	ug/L	1	11/18/2013 10:22 PM
trans-1,3-Dichloropropene	ND	0.060	1.0	ug/L	1	11/18/2013 10:22 PM
Trichloroethene	ND	0.075	1.0	ug/L	1	11/18/2013 10:22 PM
Trichlorofluoromethane	ND	0.057	1.0	ug/L	1	11/18/2013 10:22 PM
Vinyl chloride	ND	0.082	0.50	ug/L	1	11/18/2013 10:22 PM
Xylenes, Total	660	15	20	ug/L	10	11/18/2013 09:54 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
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Results are wet unless otherwise specified DO Surrogate Diluted Out



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Laboratories, Inc.**

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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 20-Nov-13

CLIENT: CH2M HILL
Lab Order: N011451
Project: SFPP - Norwalk Site
Lab ID: N011451-001

Client Sample ID: INF-11-12
Collection Date: 11/12/2013 1:25:00 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:	MS5_131118A	QC Batch:	P13VW185	PrepDate:	Analyst:	QBM	
Surr:	1,2-Dichloroethane-d4	102	0	72-119	%REC	10	11/18/2013 09:54 PM
Surr:	1,2-Dichloroethane-d4	110	0	72-119	%REC	1	11/18/2013 10:22 PM
Surr:	4-Bromofluorobenzene	104	0	76-119	%REC	1	11/18/2013 10:22 PM
Surr:	4-Bromofluorobenzene	102	0	76-119	%REC	10	11/18/2013 09:54 PM
Surr:	Dibromofluoromethane	105	0	85-115	%REC	10	11/18/2013 09:54 PM
Surr:	Dibromofluoromethane	107	0	85-115	%REC	1	11/18/2013 10:22 PM
Surr:	Toluene-d8	109	0	81-120	%REC	1	11/18/2013 10:22 PM
Surr:	Toluene-d8	101	0	81-120	%REC	10	11/18/2013 09:54 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID:	GC3_131115A	QC Batch:	44406	PrepDate:	11/15/2013	Analyst:	MDM
TPH-Diesel (C13-C22)	3500	13	51	ug/L	1	11/15/2013 08:43 PM	
TPH-Oil (C23-C36)	190	9.7	51	ug/L	1	11/15/2013 08:43 PM	
Surr: Octacosane	104	0	26-152	%REC	1	11/15/2013 08:43 PM	
Surr: p-Terphenyl	101	0	57-132	%REC	1	11/15/2013 08:43 PM	

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID:	GC4_131115A	QC Batch:	E13VW065	PrepDate:	Analyst:	PN
TPH-Gasoline (C4-C12)	5600	11	100	ug/L	1	11/15/2013 01:42 PM
Surr: Chlorobenzene - d5	81.0	0	74-138	%REC	1	11/15/2013 01:42 PM

TOTAL TPH

EPA 3510C

EPA 8015B

RunID:	GC3_131115A	QC Batch:	44406	PrepDate:	11/15/2013	Analyst:	MDM
Total TPH	9290	8.6	100	ug/L	1	11/15/2013 08:43 PM	

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
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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



**Advanced Technology
Laboratories, Inc.**

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CLIENT: CH2M HILL
Work Order: N011451
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-44406	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 11/15/2013	RunNo: 91216						
Client ID: PBW	Batch ID: 44406	TestNo: EPA 8015B EPA 3510C		Analysis Date: 11/15/2013	SeqNo: 1686144						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	50									
TPH-Oil (C23-C36)	11.030	50									J
Surr: Octacosane	79.407		80.00		99.3	26	152				
Surr: p-Terphenyl	80.195		80.00		100	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



CLIENT: CH2M HILL
Work Order: N011451
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: MB-44406	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date: 11/15/2013	RunNo: 91216						
Client ID: PBW	Batch ID: 44406	TestNo: EPA 8015B EPA 3510C		Analysis Date: 11/15/2013	SeqNo: 1686147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	ND	100									

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: CH2M HILL
 Work Order: N011451
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFP

Sample ID: E131115LCS	SampType: LCS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 91223						
Client ID: LCSW	Batch ID: E13VW065	TestNo: EPA 8015B	Analysis Date: 11/15/2013	SeqNo: 1686675							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	1057.000	100	1000	0	106	67	136				
Surr: Chlorobenzene - d5	45326.000		50000		90.7	74	138				

Sample ID: E131115MB1	SampType: MBLK	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 91223						
Client ID: PBW	Batch ID: E13VW065	TestNo: EPA 8015B	Analysis Date: 11/15/2013	SeqNo: 1686676							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	30.000	100									J
Surr: Chlorobenzene - d5	42692.000		50000		85.4	74	138				

Sample ID: N011453-001EMS	SampType: MS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 91223						
Client ID: ZZZZZZ	Batch ID: E13VW065	TestNo: EPA 8015B	Analysis Date: 11/15/2013	SeqNo: 1686678							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	1033.000	100	1000	27.00	101	67	136				
Surr: Chlorobenzene - d5	46873.000		50000		93.7	74	138				

Sample ID: N011453-001EMSD	SampType: MSD	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 91223						
Client ID: ZZZZZZ	Batch ID: E13VW065	TestNo: EPA 8015B	Analysis Date: 11/15/2013	SeqNo: 1686679							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	1019.000	100	1000	27.00	99.2	67	136	1033	1.36	30	
Surr: Chlorobenzene - d5	47225.000		50000		94.4	74	138		0	0	

Qualifiers:

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



**Advanced Technology
Laboratories, Inc.**

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CLIENT: CH2M HILL
 Work Order: N011451
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131118LCS	SampType: LCS	TestCode: 8260_WP_SF Units: ug/L			Prep Date:			RunNo: 91263			
Client ID: LCSW	Batch ID: P13VW185	TestNo: EPA 8260B			Analysis Date: 11/18/2013			SeqNo: 1688174			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.910	1.0	20.00	0	105	81	129				
1,1,1-Trichloroethane	20.150	1.0	20.00	0	101	67	132				
1,1,2,2-Tetrachloroethane	20.380	1.0	20.00	0	102	63	128				
1,1,2-Trichloroethane	20.190	1.0	20.00	0	101	75	125				
1,1-Dichloroethane	20.100	0.50	20.00	0	101	69	133				
1,1-Dichloroethene	19.540	1.0	20.00	0	97.7	68	130				
1,1-Dichloropropene	20.250	1.0	20.00	0	101	73	132				
1,2,3-Trichlorobenzene	21.500	1.0	20.00	0	108	67	137				
1,2,3-Trichloropropane	20.160	1.0	20.00	0	101	73	124				
1,2,4-Trichlorobenzene	22.430	1.0	20.00	0	112	66	134				
1,2,4-Trimethylbenzene	20.850	1.0	20.00	0	104	74	132				
1,2-Dibromo-3-chloropropane	19.580	2.0	20.00	0	97.9	50	132				
1,2-Dibromoethane	20.760	1.0	20.00	0	104	80	121				
1,2-Dichlorobenzene	20.690	1.0	20.00	0	103	71	122				
1,2-Dichloroethane	20.380	0.50	20.00	0	102	69	132				
1,2-Dichloropropane	20.450	1.0	20.00	0	102	75	125				
1,3,5-Trimethylbenzene	20.750	1.0	20.00	0	104	74	131				
1,3-Dichlorobenzene	20.400	1.0	20.00	0	102	75	124				
1,3-Dichloropropane	20.080	1.0	20.00	0	100	73	126				
1,4-Dichlorobenzene	20.180	1.0	20.00	0	101	74	123				
2,2-Dichloropropane	18.160	1.0	20.00	0	90.8	69	137				
2-Butanone	199.540	10	200.0	0	99.8	49	136				
2-Chlorotoluene	20.420	1.0	20.00	0	102	73	126				
4-Chlorotoluene	20.290	1.0	20.00	0	101	74	128				
4-Isopropyltoluene	20.880	1.0	20.00	0	104	73	130				
4-Methyl-2-pentanone	209.510	10	200.0	0	105	58	134				
Acetone	182.060	10	200.0	0	91.0	40	135				
Acrolein	203.470	20	200.0	0	102	75	125				
Acrylonitrile	204.370	20	200.0	0	102	75	125				
Benzene	20.060	1.0	20.00	0	100	81	122				

Qualifiers:

- | | | |
|--|--|--|
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CLIENT: CH2M HILL
 Work Order: N011451
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131118LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91263						
Client ID: LCSW	Batch ID: P13VW185	TestNo: EPA 8260B		Analysis Date: 11/18/2013	SeqNo: 1688174						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	20.370	1.0	20.00	0	102	76	124				
Bromochloromethane	19.630	1.0	20.00	0	98.2	65	129				
Bromodichloromethane	20.620	1.0	20.00	0	103	76	121				
Bromoform	21.030	1.0	20.00	0	105	69	128				
Bromomethane	21.690	1.0	20.00	0	108	53	141				
Carbon disulfide	19.340	1.0	20.00	0	96.7	75	125				
Carbon tetrachloride	20.370	0.50	20.00	0	102	66	138				
Chlorobenzene	20.370	1.0	20.00	0	102	81	122				
Chloroethane	18.880	1.0	20.00	0	94.4	58	133				
Chloroform	19.390	1.0	20.00	0	97.0	69	128				
Chloromethane	19.780	1.0	20.00	0	98.9	56	131				
cis-1,2-Dichloroethene	19.670	1.0	20.00	0	98.4	72	126				
cis-1,3-Dichloropropene	20.750	1.0	20.00	0	104	69	131				
Di-isopropyl ether	20.670	1.0	20.00	0	103	70	130				
Dibromochloromethane	21.000	1.0	20.00	0	105	66	133				
Dibromomethane	20.700	1.0	20.00	0	104	76	125				
Dichlorodifluoromethane	20.350	1.0	20.00	0	102	53	153				
Ethyl tert-butyl ether	20.270	1.0	20.00	0	101	70	130				
Ethylbenzene	20.190	1.0	20.00	0	101	73	127				
Freon-113	19.310	1.0	20.00	0	96.6	75	125				
Hexachlorobutadiene	20.360	1.0	20.00	0	102	67	131				
Isopropylbenzene	20.780	1.0	20.00	0	104	75	127				
m,p-Xylene	41.360	1.0	40.00	0	103	76	128				
Methylene chloride	18.680	2.0	20.00	0	93.4	63	137				
MTBE	19.970	1.0	20.00	0	99.8	65	123				
n-Butylbenzene	21.030	1.0	20.00	0	105	69	137				
n-Propylbenzene	20.770	1.0	20.00	0	104	72	129				
Naphthalene	20.110	1.0	20.00	0	101	54	138				
o-Xylene	20.730	1.0	20.00	0	104	80	121				
sec-Butylbenzene	20.430	1.0	20.00	0	102	72	127				

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 |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011451
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131118LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91263						
Client ID: LCSW	Batch ID: P13VW185	TestNo: EPA 8260B		Analysis Date: 11/18/2013	SeqNo: 1688174						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	21.270	1.0	20.00	0	106	65	134				
Tert-amyl methyl ether	19.900	1.0	20.00	0	99.5	70	130				
Tert-Butanol	105.570	5.0	100.0	0	106	70	130				
tert-Butylbenzene	20.570	1.0	20.00	0	103	70	129				
Tetrachloroethene	21.320	1.0	20.00	0	107	66	128				
Toluene	20.190	2.0	20.00	0	101	77	122				
trans-1,2-Dichloroethene	20.240	1.0	20.00	0	101	63	137				
trans-1,3-Dichloropropene	20.870	1.0	20.00	0	104	59	135				
Trichloroethene	20.480	1.0	20.00	0	102	70	127				
Trichlorofluoromethane	19.500	1.0	20.00	0	97.5	57	129				
Vinyl chloride	21.910	0.50	20.00	0	110	50	134				
Xylenes, Total	62.090	2.0	60.00	0	103	75	125				
Surr: 1,2-Dichloroethane-d4	24.460		25.00		97.8	72	119				
Surr: 4-Bromofluorobenzene	25.900		25.00		104	76	119				
Surr: Dibromofluoromethane	25.330		25.00		101	85	115				
Surr: Toluene-d8	25.350		25.00		101	81	120				

Sample ID: P131118MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91263						
Client ID: PBW	Batch ID: P13VW185	TestNo: EPA 8260B		Analysis Date: 11/18/2013	SeqNo: 1688175						
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									

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 |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N011451
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131118MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91263						
Client ID: PBW	Batch ID: P13VW185	TestNo: EPA 8260B		Analysis Date: 11/18/2013	SeqNo: 1688175						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Acrolein	ND	20									
Acrylonitrile	ND	20									
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									

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: CH2M HILL
Work Order: N011451
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131118MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91263						
Client ID: PBW	Batch ID: P13VW185	TestNo: EPA 8260B		Analysis Date: 11/18/2013	SeqNo: 1688175						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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	ND	2.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
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									

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: CH2M HILL
 Work Order: N011451
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131118MB2		SampType: MBLK		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 91263	
Client ID: PBW		Batch ID: P13VW185		TestNo: EPA 8260B		Analysis Date: 11/18/2013				SeqNo: 1688175	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	0.50									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	24.900		25.00		99.6	72	119				
Surr: 4-Bromofluorobenzene	24.870		25.00		99.5	76	119				
Surr: Dibromofluoromethane	25.670		25.00		103	85	115				
Surr: Toluene-d8	25.100		25.00		100	81	120				

Sample ID: N011455-001FMS		SampType: MS		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 91263	
Client ID: ZZZZZ		Batch ID: P13VW185		TestNo: EPA 8260B		Analysis Date: 11/18/2013				SeqNo: 1688177	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	18.900	1.0	20.00	0	94.5	81	129				
1,1,1-Trichloroethane	18.950	1.0	20.00	0	94.8	67	132				
1,1,2,2-Tetrachloroethane	19.620	1.0	20.00	0	98.1	63	128				
1,1,2-Trichloroethane	19.480	1.0	20.00	0	97.4	75	125				
1,1-Dichloroethane	20.020	0.50	20.00	0	100	69	133				
1,1-Dichloroethene	19.710	1.0	20.00	0	98.6	68	130				
1,1-Dichloropropene	18.760	1.0	20.00	0	93.8	73	132				
1,2,3-Trichlorobenzene	7.740	1.0	20.00	0	38.7	67	137				S
1,2,3-Trichloropropane	19.300	1.0	20.00	0	96.5	73	124				
1,2,4-Trichlorobenzene	8.660	1.0	20.00	0	43.3	66	134				S
1,2,4-Trimethylbenzene	12.950	1.0	20.00	0	64.8	74	132				S
1,2-Dibromo-3-chloropropane	17.300	2.0	20.00	0	86.5	50	132				
1,2-Dibromoethane	19.810	1.0	20.00	0	99.0	80	121				
1,2-Dichlorobenzene	14.450	1.0	20.00	0	72.3	71	122				
1,2-Dichloroethane	20.340	0.50	20.00	0	102	69	132				
1,2-Dichloropropane	19.530	1.0	20.00	0	97.6	75	125				
1,3,5-Trimethylbenzene	13.660	1.0	20.00	0	68.3	74	131				S
1,3-Dichlorobenzene	13.990	1.0	20.00	0	70.0	75	124				S

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 |



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CLIENT: CH2M HILL
 Work Order: N011451
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011455-001FMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91263						
Client ID: ZZZZZZ	Batch ID: P13VW185	TestNo: EPA 8260B		Analysis Date: 11/18/2013	SeqNo: 1688177						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	19.760	1.0	20.00	0	98.8	73	126				
1,4-Dichlorobenzene	13.690	1.0	20.00	0	68.4	74	123				S
2,2-Dichloropropane	22.500	1.0	20.00	0	112	69	137				
2-Butanone	225.850	10	200.0	13.32	106	49	136				
2-Chlorotoluene	14.930	1.0	20.00	0	74.7	73	126				
4-Chlorotoluene	14.580	1.0	20.00	0	72.9	74	128				S
4-Isopropyltoluene	12.200	1.0	20.00	0	61.0	73	130				S
4-Methyl-2-pentanone	215.550	10	200.0	0	108	58	134				
Acetone	199.150	10	200.0	5.280	96.9	40	135				
Acrolein	197.980	20	200.0	0	99.0	75	125				
Acrylonitrile	212.210	20	200.0	0	106	75	125				
Benzene	18.800	1.0	20.00	0	94.0	81	122				
Bromobenzene	16.610	1.0	20.00	0	83.0	76	124				
Bromochloromethane	19.610	1.0	20.00	0	98.0	65	129				
Bromodichloromethane	19.420	1.0	20.00	0	97.1	76	121				
Bromoform	19.640	1.0	20.00	0	98.2	69	128				
Bromomethane	19.190	1.0	20.00	0	96.0	53	141				
Carbon disulfide	19.000	1.0	20.00	0	95.0	75	125				
Carbon tetrachloride	18.720	0.50	20.00	0	93.6	66	138				
Chlorobenzene	17.630	1.0	20.00	0	88.2	81	122				
Chloroethane	19.570	1.0	20.00	0	97.9	58	133				
Chloroform	19.340	1.0	20.00	0	96.7	69	128				
Chloromethane	20.180	1.0	20.00	0	101	56	131				
cis-1,2-Dichloroethene	19.420	1.0	20.00	0	97.1	72	126				
cis-1,3-Dichloropropene	19.880	1.0	20.00	0	99.4	69	131				
Di-isopropyl ether	20.000	1.0	20.00	0	100	70	130				
Dibromochloromethane	19.670	1.0	20.00	0	98.4	66	133				
Dibromomethane	20.350	1.0	20.00	0	102	76	125				
Dichlorodifluoromethane	20.080	1.0	20.00	0	100	53	153				
Ethyl tert-butyl ether	19.960	1.0	20.00	0	99.8	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 |
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| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



**Advanced Technology
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011451
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011455-001FMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91263						
Client ID: ZZZZZZ	Batch ID: P13VW185	TestNo: EPA 8260B		Analysis Date: 11/18/2013	SeqNo: 1688177						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	16.720	1.0	20.00	0	83.6	73	127				
Freon-113	18.670	1.0	20.00	0	93.4	75	125				
Hexachlorobutadiene	7.980	1.0	20.00	0	39.9	67	131				S
Isopropylbenzene	15.670	1.0	20.00	0	78.4	75	127				
m,p-Xylene	32.790	1.0	40.00	0	82.0	76	128				
Methylene chloride	18.600	2.0	20.00	0	93.0	63	137				
MTBE	19.860	1.0	20.00	0	99.3	65	123				
n-Butylbenzene	10.000	1.0	20.00	0	50.0	69	137				S
n-Propylbenzene	14.220	1.0	20.00	0	71.1	72	129				S
Naphthalene	6.640	1.0	20.00	0	33.2	54	138				S
o-Xylene	16.240	1.0	20.00	0	81.2	80	121				
sec-Butylbenzene	11.920	1.0	20.00	0	59.6	72	127				S
Styrene	15.060	1.0	20.00	0	75.3	65	134				
Tert-amyl methyl ether	19.550	1.0	20.00	0	97.8	70	130				
Tert-Butanol	110.250	5.0	100.0	0	110	70	130				
tert-Butylbenzene	13.430	1.0	20.00	0	67.2	70	129				S
Tetrachloroethene	18.370	1.0	20.00	0	91.9	66	128				
Toluene	18.040	2.0	20.00	0	90.2	77	122				
trans-1,2-Dichloroethene	19.270	1.0	20.00	0	96.4	63	137				
trans-1,3-Dichloropropene	19.810	1.0	20.00	0	99.0	59	135				
Trichloroethene	18.620	1.0	20.00	0	93.1	70	127				
Trichlorofluoromethane	18.920	1.0	20.00	0	94.6	57	129				
Vinyl chloride	20.360	0.50	20.00	0	102	50	134				
Xylenes, Total	49.030	2.0	60.00	0	81.7	75	125				
Surr: 1,2-Dichloroethane-d4	25.240		25.00		101	72	119				
Surr: 4-Bromofluorobenzene	25.770		25.00		103	76	119				
Surr: Dibromofluoromethane	25.500		25.00		102	85	115				
Surr: Toluene-d8	25.320		25.00		101	81	120				

Qualifiers:

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CLIENT: CH2M HILL
 Work Order: N011451
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011455-001FMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91263						
Client ID: ZZZZZZ	Batch ID: P13VW185	TestNo: EPA 8260B		Analysis Date: 11/18/2013	SeqNo: 1688178						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	18.440	1.0	20.00	0	92.2	81	129	18.90	2.46	20	
1,1,1-Trichloroethane	19.070	1.0	20.00	0	95.4	67	132	18.95	0.631	20	
1,1,2,2-Tetrachloroethane	19.670	1.0	20.00	0	98.4	63	128	19.62	0.255	20	
1,1,2-Trichloroethane	19.320	1.0	20.00	0	96.6	75	125	19.48	0.825	20	
1,1-Dichloroethane	20.050	0.50	20.00	0	100	69	133	20.02	0.150	20	
1,1-Dichloroethene	19.950	1.0	20.00	0	99.8	68	130	19.71	1.21	20	
1,1-Dichloropropene	18.510	1.0	20.00	0	92.6	73	132	18.76	1.34	20	
1,2,3-Trichlorobenzene	7.190	1.0	20.00	0	36.0	67	137	7.740	7.37	20	S
1,2,3-Trichloropropane	19.000	1.0	20.00	0	95.0	73	124	19.30	1.57	20	
1,2,4-Trichlorobenzene	7.730	1.0	20.00	0	38.6	66	134	8.660	11.3	20	S
1,2,4-Trimethylbenzene	11.910	1.0	20.00	0	59.6	74	132	12.95	8.37	20	S
1,2-Dibromo-3-chloropropane	17.440	2.0	20.00	0	87.2	50	132	17.30	0.806	20	
1,2-Dibromoethane	19.790	1.0	20.00	0	99.0	80	121	19.81	0.101	20	
1,2-Dichlorobenzene	13.420	1.0	20.00	0	67.1	71	122	14.45	7.39	20	S
1,2-Dichloroethane	20.070	0.50	20.00	0	100	69	132	20.34	1.34	20	
1,2-Dichloropropane	19.480	1.0	20.00	0	97.4	75	125	19.53	0.256	20	
1,3,5-Trimethylbenzene	12.560	1.0	20.00	0	62.8	74	131	13.66	8.39	20	S
1,3-Dichlorobenzene	13.020	1.0	20.00	0	65.1	75	124	13.99	7.18	20	S
1,3-Dichloropropane	19.500	1.0	20.00	0	97.5	73	126	19.76	1.32	20	
1,4-Dichlorobenzene	13.010	1.0	20.00	0	65.0	74	123	13.69	5.09	20	S
2,2-Dichloropropane	20.870	1.0	20.00	0	104	69	137	22.50	7.52	20	
2-Butanone	228.950	10	200.0	13.32	108	49	136	225.8	1.36	20	
2-Chlorotoluene	13.920	1.0	20.00	0	69.6	73	126	14.93	7.00	20	S
4-Chlorotoluene	13.830	1.0	20.00	0	69.2	74	128	14.58	5.28	20	S
4-Isopropyltoluene	11.190	1.0	20.00	0	56.0	73	130	12.20	8.64	20	S
4-Methyl-2-pentanone	216.980	10	200.0	0	108	58	134	215.6	0.661	20	
Acetone	200.710	10	200.0	5.280	97.7	40	135	199.2	0.780	20	
Acrolein	207.410	20	200.0	0	104	75	125	198.0	4.65	20	
Acrylonitrile	219.290	20	200.0	0	110	75	125	212.2	3.28	20	
Benzene	18.710	1.0	20.00	0	93.6	81	122	18.80	0.480	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 |



Advanced Technology Laboratories, Inc.

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CLIENT: CH2M HILL
 Work Order: N011451
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011455-001FMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91263						
Client ID: ZZZZZZ	Batch ID: P13VW185	TestNo: EPA 8260B		Analysis Date: 11/18/2013	SeqNo: 1688178						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	16.260	1.0	20.00	0	81.3	76	124	16.61	2.13	20	
Bromochloromethane	20.170	1.0	20.00	0	101	65	129	19.61	2.82	20	
Bromodichloromethane	19.750	1.0	20.00	0	98.8	76	121	19.42	1.68	20	
Bromoform	19.760	1.0	20.00	0	98.8	69	128	19.64	0.609	20	
Bromomethane	20.050	1.0	20.00	0	100	53	141	19.19	4.38	20	
Carbon disulfide	19.540	1.0	20.00	0	97.7	75	125	19.00	2.80	20	
Carbon tetrachloride	18.680	0.50	20.00	0	93.4	66	138	18.72	0.214	20	
Chlorobenzene	16.810	1.0	20.00	0	84.0	81	122	17.63	4.76	20	
Chloroethane	19.380	1.0	20.00	0	96.9	58	133	19.57	0.976	20	
Chloroform	19.090	1.0	20.00	0	95.4	69	128	19.34	1.30	20	
Chloromethane	20.190	1.0	20.00	0	101	56	131	20.18	0.0495	20	
cis-1,2-Dichloroethene	19.240	1.0	20.00	0	96.2	72	126	19.42	0.931	20	
cis-1,3-Dichloropropene	19.780	1.0	20.00	0	98.9	69	131	19.88	0.504	20	
Di-isopropyl ether	20.030	1.0	20.00	0	100	70	130	20.00	0.150	20	
Dibromochloromethane	19.630	1.0	20.00	0	98.2	66	133	19.67	0.204	20	
Dibromomethane	20.340	1.0	20.00	0	102	76	125	20.35	0.0492	20	
Dichlorodifluoromethane	20.110	1.0	20.00	0	101	53	153	20.08	0.149	20	
Ethyl tert-butyl ether	20.210	1.0	20.00	0	101	70	130	19.96	1.24	20	
Ethylbenzene	15.960	1.0	20.00	0	79.8	73	127	16.72	4.65	20	
Freon-113	18.820	1.0	20.00	0	94.1	75	125	18.67	0.800	20	
Hexachlorobutadiene	6.980	1.0	20.00	0	34.9	67	131	7.980	13.4	20	S
Isopropylbenzene	14.900	1.0	20.00	0	74.5	75	127	15.67	5.04	20	S
m,p-Xylene	31.080	1.0	40.00	0	77.7	76	128	32.79	5.35	20	
Methylene chloride	18.610	2.0	20.00	0	93.0	63	137	18.60	0.0537	20	
MTBE	20.110	1.0	20.00	0	101	65	123	19.86	1.25	20	
n-Butylbenzene	9.070	1.0	20.00	0	45.4	69	137	10.00	9.75	20	S
n-Propylbenzene	13.310	1.0	20.00	0	66.6	72	129	14.22	6.61	20	S
Naphthalene	6.450	1.0	20.00	0	32.2	54	138	6.640	2.90	20	S
o-Xylene	15.210	1.0	20.00	0	76.1	80	121	16.24	6.55	20	S
sec-Butylbenzene	10.920	1.0	20.00	0	54.6	72	127	11.92	8.76	20	S

Qualifiers:

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



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011451
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011455-001FMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91263						
Client ID: ZZZZZZ	Batch ID: P13VW185	TestNo: EPA 8260B		Analysis Date: 11/18/2013	SeqNo: 1688178						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	13.960	1.0	20.00	0	69.8	65	134	15.06	7.58	20	
Tert-amyl methyl ether	19.630	1.0	20.00	0	98.2	70	130	19.55	0.408	20	
Tert-Butanol	116.130	5.0	100.0	0	116	70	130	110.2	5.19	20	
tert-Butylbenzene	12.520	1.0	20.00	0	62.6	70	129	13.43	7.01	20	S
Tetrachloroethene	17.330	1.0	20.00	0	86.7	66	128	18.37	5.83	20	
Toluene	17.540	2.0	20.00	0	87.7	77	122	18.04	2.81	20	
trans-1,2-Dichloroethene	19.390	1.0	20.00	0	97.0	63	137	19.27	0.621	20	
trans-1,3-Dichloropropene	19.830	1.0	20.00	0	99.2	59	135	19.81	0.101	20	
Trichloroethene	18.650	1.0	20.00	0	93.3	70	127	18.62	0.161	20	
Trichlorofluoromethane	18.760	1.0	20.00	0	93.8	57	129	18.92	0.849	20	
Vinyl chloride	20.240	0.50	20.00	0	101	50	134	20.36	0.591	20	
Xylenes, Total	46.290	2.0	60.00	0	77.2	75	125	49.03	5.75	20	
Surr: 1,2-Dichloroethane-d4	24.870		25.00		99.5	72	119		0		
Surr: 4-Bromofluorobenzene	25.250		25.00		101	76	119		0		
Surr: Dibromofluoromethane	25.150		25.00		101	85	115		0		
Surr: Toluene-d8	25.340		25.00		101	81	120		0		

Qualifiers:

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



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CHAIN OF CUSTODY RECORD

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

DATE: 11/12/13
 PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh ADDRESS: 1100 Town & Country Road CITY: Orange, CA 92868 TEL: 714-560-4802 FAX: 714-560-4601 TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL / / SPECIAL INSTRUCTIONS Report to D. Jablonski/CH2M HILL, cc: KMEP Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.		CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site PROJECT CONTACT: James Dye SAMPLER(S): (SIGNATURE) 	
P.O. NO.: QUOTE NO.: LAB USE ONLY <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		REQUESTED ANALYSIS	
LAB USE ONLY INF-11-12	LOCATION/ DESCRIPTION Influent	SAMPLING DATE: <u>11/6/13</u> <u>13:25</u> WW 8	NO. OF CONT. TPH - g, TPH-d, and TPH-oil (8015M) <input checked="" type="checkbox"/> X Full VOC + Oxygenates List (820B) <input checked="" type="checkbox"/> X Comments NO11451-1
Relinquished by: (Signature) Received by: (Signature) D. Jablonski MENANDEO S. LARA		Date: <u>11/12/13</u> Time: <u>1645</u>	
Relinquished by: (Signature) Received by: (Signature) GSO Tracking #107335670		Date: <u>11/12/13</u> Time: <u>1800</u>	
Relinquished by: (Signature) Received by: (Signature) GSO Tracking #107335670		Date: <u>11-13-13</u> Time: <u>0932</u>	
Revised: 07/19/2012			

Advanced Technology Laboratories, Inc.

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: 11/13/2013 Workorder: N011451
 Rep sample Temp (Deg C): 1.8 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: GSO
 Last 4 digits of Tracking No.: 5670 Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input 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 type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" 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: HG  11/14/2013

Reviewed By: 

Advanced Technology Laboratories, Inc.

WORK ORDER Summary

13-Nov-13

WorkOrder: N011451

Client ID: CH2HI01

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 11/13/2013

Comments: Report to D. Jablonski/CH2M HILL, cc:KMEP.

Direct Bill KMEP/SFPP-Steve Defibaugh-ref.AFE# 81195. "J" Flags requ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N011451-001A	INF-11-12	11/12/2013 1:25:00 PM	11/20/2013	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N011451-001B			11/20/2013		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N011451-001C			11/20/2013		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/20/2013		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/20/2013		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N011451-002A	FOLDER		11/20/2013	Folder	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

PLEASE PRESS FIRMLY
PLEASE PRESS FIRMLY

1 FROM

DATE: *1/10/00*
 COMPANY: *ATL INC*
 ADDRESS: *11000 Artesia Blvd*
 ADDRESS: *ATL INC*
 CITY: *CARPENTERS CA*
 SENDERS' NAME: *WARDEN IN*
 COMPANY: *ATL INC*
 NAME: *ATL INC*
 ADDRESS: *ATL INC CA-7N*
 ADDRESS: *1151 W. 26th St*
 CITY: *Las Vegas NV*

STE/ROOM: *90703*
 ZIP CODE: *89070*
 PHONE NUMBER: *(702)307-2659*
 ZIP CODE: *89118*

3 YOUR INTERNAL BILLING REFERENCE WILL APPEAR ON YOUR INVOICE

SPECIAL INSTRUCTIONS

4 SHIPPING AIR BILL

PACKAGE INFORMATION

LETTER (MAX 8 OZ)

PACKAGE (WT)

DECLARED VALUE \$

COD AMOUNT \$ (CASH NOT ACCEPTED)

5 DELIVERY SERVICE PRIORITY OVERNIGHT BY 10:30 AM

EARLY DELIVERY

SATURDAY DELIVERY

6 RELEASE SIGNATURE _____

7 _____

8 PICK UP INFORMATION

TIME _____ DRIVER # _____

1073335670

PEEL OFF HERE

9 GSO TRACKING NUMBER 1073335670

GSO
ORDER STATE OVERNIGHT

1-800-322-5555
WWW.GSO.COM

*DELIVERY TIMES MAY BE LATER IN SOME AREAS • CONSULT YOUR SERVICE GUIDE OR CALL GSDEN STATE OVERNIGHT.

SIGN TO AUTHORIZE DELIVERY WITHOUT OBTAINING SIGNATURE

CUSTODY SEAL

**IF SEAL IS BROKEN
CHECK CONTENTS
BEFORE ACCEPTING**



**ENVIRONMENTAL SAMPLING SUPPLY
ULTRA CLEANED CONTAINERS**

December 18, 2013

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612
TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.:2676
NV Cert. No.:NV-009222007A

Workorder No.: N011601

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on December 11, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The attached report is the final hard copy pertaining to the subcontracted tests for the above project.

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,



Jose Tenorio Jr.
Laboratory Director

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



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

E121101-01

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
 3151 W. Post Road
 Las Vegas, NV 89118
 Tel: 702-307-2659 Fax: 702-307-2691
 Marlon Cartin [marlon@atl-labs.com]

DATE: 12/10/13
 PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Definbough
 ADDRESS: 1100 Town & Country Road
 CITY: Orange, CA 92868
 TEL: 714-560-4802 FAX: 714-560-4601 E-MAIL: james_dye@kindermorgan.com

CLIENT PROJECT NAME/NUMBER: SFPP - Norwalk Site
 PROJECT CONTACT: James Dye
 P.O. NO.:
 QUOTE NO.:
 LAB USE ONLY:

SAMPLER(S) (SIGNATURE):

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		NO. OF CONT.	MATERIAL	COMMENTS
			DATE	TIME			
<input checked="" type="checkbox"/>	VINF-12-10	Header	12/10/13	1335	3	Air	Monthly sample
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
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<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

TURNAROUND TIME:
 SAME DAY 24 HR 48HR 72 HR 5 DAYS 10 DAYS
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY):
 RWQCB REPORTING ARCHIVE SAMPLES UNTIL / /
 SPECIAL INSTRUCTIONS:
 Report to D. Jablonski/CH2M HILL, cc: KMEP
 Direct Bill KMEP/SFPP - Steve Definbough-ref. AFE# 81195
 "J" flags required/Use lowest possible detection limit - all methods.

Relinquished by (Signature):
 Relinquished by (Signature):
 Relinquished by (Signature):

Received by (Signature):
 Received by (Signature):
 Received by (Signature):

Date: 12/10/13 Time: 1622
 Date: 12/11/13 Time: 8:27 am
 Date:

December 18, 2013

Advanced Technology Labs, Inc.
ATTN: Marlon Cartin
3151-3153 W. Post Rd.
Las Vegas, NV 89118



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



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

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: N011601
Lab Number: E121101-01

Enclosed are results for sample(s) received 12/11/13 by Air Technology Laboratories. 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).

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,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

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

E121101-01



Advanced Technology Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:
ATL-Industry

TEL:
FAX:
Acct #:

Field Sampler: James Dye

City of Industry, CA

11-Dec-13

Sample ID	Matrix	Date Collected	Bottle Type	ASTM D1946	Requested Tests	
					EPA TO15	EPA TO3
N011601-001A / VINP-12-10	Air	12/10/2013 1:35:00 PM	BAG	1	1	1

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N011601 For questions, call Marion at (702)-307-2659. Please e-mail results to marion@atl-labs.com by:
Standard TAT. SFPP Norwalk monthly samples.

Dialab, Cor, Oz, City 90 12/11/13

Relinquished by: <i>[Signature]</i>	Date/Time: 12/11/13
Received by: <i>[Signature]</i> (Vice Email)	Date/Time: 12/11/13
Relinquished by: _____	Received by: _____

Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N011601
Date Received: 12/11/13
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	E121101-01			
Client Sample I.D.:	N011601-001A / VINP-12-10			
Date Sampled:	12/10/13			
Date Analyzed:	12/12/13			
QC Batch No.:	131211MS2A1			
Analyst Initials:	DT			
Dilution Factor:	50			

ANALYTE	Result ppbv	RL ppbv						
Dichlorodifluoromethane (12)	ND	50						
Chloromethane	690	100						
1,2-CI-1,1,2,2-F ethane (114)	ND	50						
Vinyl Chloride	ND	50						
Bromomethane	ND	50						
Chloroethane	ND	50						
Trichlorofluoromethane (11)	ND	50						
1,1-Dichloroethene	ND	50						
Carbon Disulfide	ND	250						
1,1,2-CI 1,2,2-F ethane (113)	ND	50						
Acetone	ND	250						
Methylene Chloride	ND	50						
t-1,2-Dichloroethene	ND	50						
1,1-Dichloroethane	ND	50						
Vinyl Acetate	ND	250						
c-1,2-Dichloroethene	ND	50						
2-Butanone	ND	50						
t-Butyl Methyl Ether (MTBE)	ND	50						
Chloroform	ND	50						
1,1,1-Trichloroethane	ND	50						
Carbon Tetrachloride	ND	50						
Benzene	8,400	50						
1,2-Dichloroethane	ND	50						
Trichloroethene	ND	50						
1,2-Dichloropropane	ND	50						
Bromodichloromethane	ND	50						
c-1,3-Dichloropropene	ND	50						
4-Methyl-2-Pentanone	ND	50						
Toluene	7,200	50						
t-1,3-Dichloropropene	ND	50						



Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N011601
Date Received: 12/11/13
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

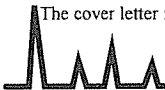
Lab No.:	E121101-01							
Client Sample I.D.:	N011601-001A / VINP-12-10							
Date Sampled:	12/10/13							
Date Analyzed:	12/12/13							
QC Batch No.:	131211MS2A1							
Analyst Initials:	DT							
Dilution Factor:	50							
ANALYTE	Result ppbv	RL ppbv						
1,1,2-Trichloroethane	ND	50						
Tetrachloroethene	ND	50						
2-Hexanone	ND	50						
Dibromochloromethane	ND	50						
1,2-Dibromoethane	ND	50						
Chlorobenzene	ND	50						
Ethylbenzene	920	50						
p,&m-Xylene	4,200	50						
o-Xylene	1,300	50						
Styrene	50	50						
Bromoform	ND	50						
1,1,2,2-Tetrachloroethane	ND	100						
Benzyl Chloride	ND	50						
4-Ethyl Toluene	650	50						
1,3,5-Trimethylbenzene	230	100						
1,2,4-Trimethylbenzene	410	100						
1,3-Dichlorobenzene	ND	50						
1,4-Dichlorobenzene	ND	50						
1,2-Dichlorobenzene	ND	50						
1,2,4-Trichlorobenzene	ND	100						
Hexachlorobutadiene	ND	50						

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 12/18/13

The cover letter is an integral part of this analytical report



QC Batch #: 131211MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank	LCS		LCSD		Limits					
		Date Analyzed:	12/12/13	12/11/13	12/11/13	Low %Rec	High %Rec	Max. RPD	Pass/Fail		
Data File ID:	11DEC007.D	11DEC005.D	11DEC006.D								
Analyst Initials:	DT	DT	DT								
Dilution Factor:	0.2	1.0	1.0								
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	8.8	88	8.7	87	1.1	70	130	30	Pass
Methylene Chloride	0.0	10.0	8.6	86	8.5	85	1.1	70	130	30	Pass
Trichloroethene	0.0	10.0	8.3	83	8.2	82	1.8	70	130	30	Pass
Toluene	0.0	10.0	8.0	80	8.0	80	0.4	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	7.4	74	7.9	79	5.6	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 12/18/13

The cover letter is an integral part of this analytical report



Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N011601
Date Received: 12/11/13
Matrix: Air
Reporting Units: ppmv

EPA METHOD TO3

Lab No.:	E121101-01				
Client Sample I.D.:	N011601-001A / VINF-12-10				
Date Sampled:	12/10/13				
Date Analyzed:	12/13/13				
QC Batch No.:	131213GC11A1				
Analyst Initials:	VM				
Dilution Factor:	10				
ANALYTE	Result ppmv	RL ppmv			
TVOC as Gasoline	910	10			

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By:
Mark Johnson
Operations Manager

Date 12/17/13

The cover letter is an integral part of this analytical report



QC Batch No: 131213GC11A1

Matrix: Air

Reporting Units: ppmv

**EPA Method TO3
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK		LCS		LCSD					
Date Analyzed:	12/13/13		12/13/13		12/13/13					
Analyst Initials:	VM		VM		VM					
Dilution Factor:	1.0		1.0		1.0					
ANALYTE	Result ppmv	RL ppmv	Result ppmv	% Rec.	Result ppmv	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
TVOC as Gasoline	ND	1.0	100	110	100	110	1.8	70	130	25

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
Mark Johnson
Operations Manager

Date 12/17/13

The cover letter is an integral part of this analytical report

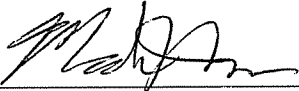


Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N011601
Date Received: 12/11/13
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	E121101-01						
Client Sample I.D.:	N011601-001A / VINP-12-10						
Date Sampled:	12/10/13						
Date Analyzed:	12/12/13						
QC Batch No.:	131212GC8A1						
Analyst Initials:	AS						
Dilution Factor:	1.0						
ANALYTE	Result % v/v	RL % v/v					
Carbon Dioxide	0.92	0.010					
Oxygen/Argon	21	0.50					
Methane	0.013	0.0010					

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 12-18-13

The cover letter is an integral part of this analytical report



QC Batch No.: 131212GC8A1


Matrix: Air

Units: % v/v

QC for ASTM D1946

Lab No.:	Method Blank	LCS	LCSD					
Date Analyzed:	12/12/13	12/12/13	12/12/13					
Analyst Initials:	AS	AS	AS					
Datafile:	12dec009	12dec006	12dec007					
Dilution Factor:	1.0	1.0	1.0					
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Carbon Dioxide	ND	0.010	96	70-130%	96	70-130%	0.3	<30
Oxygen/Argon	ND	0.50	98	70-130%	98	70-130%	0.4	<30
Methane	ND	0.0010	105	70-130%	105	70-130%	0.6	<30

ND = Not Detected (Below RL)

Reviewed/Approved By: 
 Mark J. Johnson
 Operations Manager

Date: 12-18-13

The cover letter is an integral part of this analytical report



December 20, 2013

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.:2676
NV Cert. No.:NV-009222007A

Workorder No.: N011642

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on December 13, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Libucano for

Jose Tenorio Jr.
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.



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N011642

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 8260B:

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



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N011642
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N011642-001A	INF-12/13	Wastewater	12/13/2013 11:45:00 AM	12/13/2013	12/20/2013
N011642-001B	INF-12/13	Wastewater	12/13/2013 11:45:00 AM	12/13/2013	12/20/2013
N011642-001C	INF-12/13	Wastewater	12/13/2013 11:45:00 AM	12/13/2013	12/20/2013



CLIENT: CH2M HILL
Lab Order: N011642
Project: SFPP - Norwalk Site
Lab ID: N011642-001

Client Sample ID: INF-12/13
Collection Date: 12/13/2013 11:45:00 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: MS5_131214A	QC Batch: P13VW200	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	1.0	ug/L	1	12/14/2013 02:55 PM
1,1,1-Trichloroethane	ND	0.072	1.0	ug/L	1	12/14/2013 02:55 PM
1,1,2,2-Tetrachloroethane	ND	0.10	1.0	ug/L	1	12/14/2013 02:55 PM
1,1,2-Trichloroethane	ND	0.13	1.0	ug/L	1	12/14/2013 02:55 PM
1,1-Dichloroethane	ND	0.062	0.50	ug/L	1	12/14/2013 02:55 PM
1,1-Dichloroethene	ND	0.16	1.0	ug/L	1	12/14/2013 02:55 PM
1,1-Dichloropropene	ND	0.073	1.0	ug/L	1	12/14/2013 02:55 PM
1,2,3-Trichlorobenzene	ND	0.084	1.0	ug/L	1	12/14/2013 02:55 PM
1,2,3-Trichloropropane	ND	0.11	1.0	ug/L	1	12/14/2013 02:55 PM
1,2,4-Trichlorobenzene	ND	0.10	1.0	ug/L	1	12/14/2013 02:55 PM
1,2,4-Trimethylbenzene	460	0.36	10	ug/L	10	12/14/2013 02:28 PM
1,2-Dibromo-3-chloropropane	ND	0.34	2.0	ug/L	1	12/14/2013 02:55 PM
1,2-Dibromoethane	ND	0.090	1.0	ug/L	1	12/14/2013 02:55 PM
1,2-Dichlorobenzene	ND	0.048	1.0	ug/L	1	12/14/2013 02:55 PM
1,2-Dichloroethane	1.4	0.044	0.50	ug/L	1	12/14/2013 02:55 PM
1,2-Dichloropropane	ND	0.094	1.0	ug/L	1	12/14/2013 02:55 PM
1,3,5-Trimethylbenzene	170	0.54	10	ug/L	10	12/14/2013 02:28 PM
1,3-Dichlorobenzene	ND	0.061	1.0	ug/L	1	12/14/2013 02:55 PM
1,3-Dichloropropane	ND	0.081	1.0	ug/L	1	12/14/2013 02:55 PM
1,4-Dichlorobenzene	ND	0.078	1.0	ug/L	1	12/14/2013 02:55 PM
2,2-Dichloropropane	ND	0.061	1.0	ug/L	1	12/14/2013 02:55 PM
2-Butanone	ND	0.70	10	ug/L	1	12/14/2013 02:55 PM
2-Chlorotoluene	ND	0.054	1.0	ug/L	1	12/14/2013 02:55 PM
4-Chlorotoluene	ND	0.039	1.0	ug/L	1	12/14/2013 02:55 PM
4-Isopropyltoluene	7.3	0.044	1.0	ug/L	1	12/14/2013 02:55 PM
4-Methyl-2-pentanone	ND	0.59	10	ug/L	1	12/14/2013 02:55 PM
Acetone	24	1.2	10	ug/L	1	12/14/2013 02:55 PM
Acrolein	ND	0.89	20	ug/L	1	12/14/2013 02:55 PM
Acrylonitrile	ND	0.68	20	ug/L	1	12/14/2013 02:55 PM
Benzene	560	0.48	10	ug/L	10	12/14/2013 02:28 PM
Bromobenzene	ND	0.054	1.0	ug/L	1	12/14/2013 02:55 PM
Bromochloromethane	ND	0.15	1.0	ug/L	1	12/14/2013 02:55 PM
Bromodichloromethane	ND	0.048	1.0	ug/L	1	12/14/2013 02:55 PM
Bromoform	ND	0.18	1.0	ug/L	1	12/14/2013 02:55 PM
Bromomethane	ND	0.13	1.0	ug/L	1	12/14/2013 02:55 PM
Carbon disulfide	0.66	0.040	1.0	J ug/L	1	12/14/2013 02:55 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
 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
 Results are wet unless otherwise specified



Advanced Technology Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Lab Order: N011642
Project: SFPP - Norwalk Site
Lab ID: N011642-001

Client Sample ID: INF-12/13
Collection Date: 12/13/2013 11:45:00 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: MS5_131214A	QC Batch: P13VW200	PrepDate:	Analyst: QBM			
Carbon tetrachloride	ND	0.057	0.50	ug/L	1	12/14/2013 02:55 PM
Chlorobenzene	ND	0.044	1.0	ug/L	1	12/14/2013 02:55 PM
Chloroethane	ND	0.17	1.0	ug/L	1	12/14/2013 02:55 PM
Chloroform	ND	0.048	1.0	ug/L	1	12/14/2013 02:55 PM
Chloromethane	ND	0.043	1.0	ug/L	1	12/14/2013 02:55 PM
cis-1,2-Dichloroethene	ND	0.057	1.0	ug/L	1	12/14/2013 02:55 PM
cis-1,3-Dichloropropene	ND	0.051	1.0	ug/L	1	12/14/2013 02:55 PM
Di-isopropyl ether	17	0.038	1.0	ug/L	1	12/14/2013 02:55 PM
Dibromochloromethane	ND	0.070	1.0	ug/L	1	12/14/2013 02:55 PM
Dibromomethane	ND	0.11	1.0	ug/L	1	12/14/2013 02:55 PM
Dichlorodifluoromethane	ND	0.054	1.0	ug/L	1	12/14/2013 02:55 PM
Ethyl tert-butyl ether	ND	0.061	1.0	ug/L	1	12/14/2013 02:55 PM
Ethylbenzene	170	0.36	10	ug/L	10	12/14/2013 02:28 PM
Freon-113	ND	0.15	1.0	ug/L	1	12/14/2013 02:55 PM
Hexachlorobutadiene	ND	0.070	1.0	ug/L	1	12/14/2013 02:55 PM
Isopropylbenzene	23	0.073	1.0	ug/L	1	12/14/2013 02:55 PM
m,p-Xylene	1000	1.4	10	ug/L	10	12/14/2013 02:28 PM
Methylene chloride	ND	0.28	2.0	ug/L	1	12/14/2013 02:55 PM
MTBE	52	0.098	1.0	ug/L	1	12/14/2013 02:55 PM
n-Butylbenzene	16	0.076	1.0	ug/L	1	12/14/2013 02:55 PM
n-Propylbenzene	62	0.049	1.0	ug/L	1	12/14/2013 02:55 PM
Naphthalene	130	1.0	10	ug/L	10	12/14/2013 02:28 PM
o-Xylene	480	0.42	10	ug/L	10	12/14/2013 02:28 PM
sec-Butylbenzene	ND	0.036	1.0	ug/L	1	12/14/2013 02:55 PM
Styrene	ND	0.040	1.0	ug/L	1	12/14/2013 02:55 PM
Tert-amyl methyl ether	ND	0.054	1.0	ug/L	1	12/14/2013 02:55 PM
Tert-Butanol	220	1.0	5.0	ug/L	1	12/14/2013 02:55 PM
tert-Butylbenzene	ND	0.040	1.0	ug/L	1	12/14/2013 02:55 PM
Tetrachloroethene	ND	0.12	1.0	ug/L	1	12/14/2013 02:55 PM
Toluene	690	0.34	20	ug/L	10	12/14/2013 02:28 PM
trans-1,2-Dichloroethene	ND	0.11	1.0	ug/L	1	12/14/2013 02:55 PM
trans-1,3-Dichloropropene	ND	0.060	1.0	ug/L	1	12/14/2013 02:55 PM
Trichloroethene	ND	0.075	1.0	ug/L	1	12/14/2013 02:55 PM
Trichlorofluoromethane	ND	0.057	1.0	ug/L	1	12/14/2013 02:55 PM
Vinyl chloride	ND	0.082	0.50	ug/L	1	12/14/2013 02:55 PM
Xylenes, Total	1500	15	20	ug/L	10	12/14/2013 02:28 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
 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
 Results are wet unless otherwise specified



**Advanced Technology
 Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Lab Order: N011642
Project: SFPP - Norwalk Site
Lab ID: N011642-001

Client Sample ID: INF-12/13
Collection Date: 12/13/2013 11:45:00 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: MS5_131214A	QC Batch: P13VW200			PrepDate:	Analyst: QBM		
Surr: 1,2-Dichloroethane-d4	97.8	0	72-119	%REC	1	12/14/2013 02:55 PM	
Surr: 1,2-Dichloroethane-d4	91.6	0	72-119	%REC	10	12/14/2013 02:28 PM	
Surr: 4-Bromofluorobenzene	105	0	76-119	%REC	1	12/14/2013 02:55 PM	
Surr: 4-Bromofluorobenzene	102	0	76-119	%REC	10	12/14/2013 02:28 PM	
Surr: Dibromofluoromethane	89.2	0	85-115	%REC	1	12/14/2013 02:55 PM	
Surr: Dibromofluoromethane	88.0	0	85-115	%REC	10	12/14/2013 02:28 PM	
Surr: Toluene-d8	101	0	81-120	%REC	10	12/14/2013 02:28 PM	
Surr: Toluene-d8	108	0	81-120	%REC	1	12/14/2013 02:55 PM	

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: GC1_131219A	QC Batch: 44643			PrepDate: 12/18/2013	Analyst: MDM		
TPH-Diesel (C13-C22)	14000	130	510	ug/L	10	12/19/2013 08:14 PM	
TPH-Oil (C23-C36)	400	9.7	51	ug/L	1	12/19/2013 06:57 PM	
Surr: Octacosane	66.9	0	26-152	%REC	1	12/19/2013 06:57 PM	
Surr: p-Terphenyl	70.2	0	57-132	%REC	1	12/19/2013 06:57 PM	

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_131216A	QC Batch: E13VW068			PrepDate:	Analyst: PN		
TPH-Gasoline (C4-C12)	12500	110	1000	ug/L	10	12/16/2013 11:55 AM	
Surr: Chlorobenzene - d5	94.5	0	74-138	%REC	10	12/16/2013 11:55 AM	

TOTAL TPH

EPA 8015B

RunID: GC1_131219A	QC Batch: R91722			PrepDate:	Analyst: MDM		
Total TPH	26900	8.5	100	ug/L	1	12/19/2013	

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



Advanced Technology Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N011642
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-44643	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 12/18/2013	RunNo: 91722						
Client ID: PBW	Batch ID: 44643	TestNo: EPA 8015B EPA 3510C		Analysis Date: 12/19/2013	SeqNo: 1707302						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	50									
TPH-Oil (C23-C36)	ND	50									
Surr: Octacosane	53.102		80.00		66.4	26	152				
Surr: p-Terphenyl	51.196		80.00		64.0	57	132				

Qualifiers:

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



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N011642
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPTOT

Sample ID: MB-91722	SampType: MBLK	TestCode: 8015_W_SFP Units: ug/L	Prep Date:	RunNo: 91722							
Client ID: PBW	Batch ID: R91722	TestNo: EPA 8015B	Analysis Date: 12/19/2013	SeqNo: 1707306							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	ND	100									

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 |



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N011642
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: E131216LCS	SampType: LCS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 91649						
Client ID: LCSW	Batch ID: E13VW068	TestNo: EPA 8015B		Analysis Date: 12/16/2013	SeqNo: 1704156						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	887.000	100	1000	0	88.7	67	136				
Surr: Chlorobenzene - d5	46455.000		50000		92.9	74	138				

Sample ID: E131216MB1	SampType: MBLK	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 91649						
Client ID: PBW	Batch ID: E13VW068	TestNo: EPA 8015B		Analysis Date: 12/16/2013	SeqNo: 1704157						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	31.000	100									J
Surr: Chlorobenzene - d5	46292.000		50000		92.6	74	138				

Sample ID: N011641-001BMS	SampType: MS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 91649						
Client ID: ZZZZZ	Batch ID: E13VW068	TestNo: EPA 8015B		Analysis Date: 12/16/2013	SeqNo: 1704159						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	840.000	100	1000	29.00	81.1	67	136				
Surr: Chlorobenzene - d5	47510.000		50000		95.0	74	138				

Sample ID: N011641-001BMSD	SampType: MSD	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 91649						
Client ID: ZZZZZ	Batch ID: E13VW068	TestNo: EPA 8015B		Analysis Date: 12/16/2013	SeqNo: 1704160						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	806.000	100	1000	29.00	77.7	67	136	840.0	4.13	30	
Surr: Chlorobenzene - d5	47181.000		50000		94.4	74	138		0	0	

Qualifiers:

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



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011642
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131214LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91623
Client ID: LCSW	Batch ID: P13VW200	TestNo: EPA 8260B		Analysis Date: 12/14/2013	SeqNo: 1703289

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	22.140	1.0	20.00	0	111	81	129				
1,1,1-Trichloroethane	19.750	1.0	20.00	0	98.8	67	132				
1,1,2,2-Tetrachloroethane	20.400	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	19.190	0.50	20.00	0	96.0	69	133				
1,1-Dichloroethene	20.080	1.0	20.00	0	100	68	130				
1,1-Dichloropropene	19.930	1.0	20.00	0	99.7	73	132				
1,2,3-Trichlorobenzene	21.080	1.0	20.00	0	105	67	137				
1,2,3-Trichloropropane	20.140	1.0	20.00	0	101	73	124				
1,2,4-Trichlorobenzene	21.050	1.0	20.00	0	105	66	134				
1,2,4-Trimethylbenzene	20.610	1.0	20.00	0	103	74	132				
1,2-Dibromo-3-chloropropane	19.290	2.0	20.00	0	96.5	50	132				
1,2-Dibromoethane	20.360	1.0	20.00	0	102	80	121				
1,2-Dichlorobenzene	19.960	1.0	20.00	0	99.8	71	122				
1,2-Dichloroethane	19.170	0.50	20.00	0	95.9	69	132				
1,2-Dichloropropane	18.930	1.0	20.00	0	94.6	75	125				
1,3,5-Trimethylbenzene	20.460	1.0	20.00	0	102	74	131				
1,3-Dichlorobenzene	19.980	1.0	20.00	0	99.9	75	124				
1,3-Dichloropropane	20.130	1.0	20.00	0	101	73	126				
1,4-Dichlorobenzene	20.350	1.0	20.00	0	102	74	123				
2,2-Dichloropropane	23.000	1.0	20.00	0	115	69	137				
2-Butanone	172.270	10	200.0	0	86.1	49	136				
2-Chlorotoluene	19.420	1.0	20.00	0	97.1	73	126				
4-Chlorotoluene	20.160	1.0	20.00	0	101	74	128				
4-Isopropyltoluene	22.310	1.0	20.00	0	112	73	130				
4-Methyl-2-pentanone	208.940	10	200.0	0	104	58	134				
Acetone	159.440	10	200.0	0	79.7	40	135				
Acrolein	172.400	20	200.0	0	86.2	75	125				
Acrylonitrile	202.120	20	200.0	0	101	75	125				
Benzene	19.420	1.0	20.00	0	97.1	81	122				

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 |



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011642
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131214LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91623
Client ID: LCSW	Batch ID: P13VW200	TestNo: EPA 8260B		Analysis Date: 12/14/2013	SeqNo: 1703289

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	20.990	1.0	20.00	0	105	76	124				
Bromochloromethane	18.560	1.0	20.00	0	92.8	65	129				
Bromodichloromethane	20.800	1.0	20.00	0	104	76	121				
Bromoform	25.550	1.0	20.00	0	128	69	128				
Bromomethane	17.510	1.0	20.00	0	87.6	53	141				
Carbon disulfide	18.300	1.0	20.00	0	91.5	75	125				
Carbon tetrachloride	23.440	0.50	20.00	0	117	66	138				
Chlorobenzene	19.620	1.0	20.00	0	98.1	81	122				
Chloroethane	19.650	1.0	20.00	0	98.2	58	133				
Chloroform	18.340	1.0	20.00	0	91.7	69	128				
Chloromethane	16.880	1.0	20.00	0	84.4	56	131				
cis-1,2-Dichloroethene	17.360	1.0	20.00	0	86.8	72	126				
cis-1,3-Dichloropropene	19.920	1.0	20.00	0	99.6	69	131				
Di-isopropyl ether	17.250	1.0	20.00	0	86.2	70	130				
Dibromochloromethane	22.520	1.0	20.00	0	113	66	133				
Dibromomethane	21.710	1.0	20.00	0	109	76	125				
Dichlorodifluoromethane	20.310	1.0	20.00	0	102	53	153				
Ethyl tert-butyl ether	18.470	1.0	20.00	0	92.4	70	130				
Ethylbenzene	20.490	1.0	20.00	0	102	73	127				
Freon-113	17.140	1.0	20.00	0	85.7	75	125				
Hexachlorobutadiene	19.250	1.0	20.00	0	96.2	67	131				
Isopropylbenzene	20.090	1.0	20.00	0	100	75	127				
m,p-Xylene	40.650	1.0	40.00	0	102	76	128				
Methylene chloride	16.560	2.0	20.00	0	82.8	63	137				
MTBE	17.270	1.0	20.00	0	86.4	65	123				
n-Butylbenzene	20.520	1.0	20.00	0	103	69	137				
n-Propylbenzene	20.260	1.0	20.00	0	101	72	129				
Naphthalene	19.290	1.0	20.00	0	96.5	54	138				
o-Xylene	20.200	1.0	20.00	0	101	80	121				
sec-Butylbenzene	19.860	1.0	20.00	0	99.3	72	127				

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 |



Advanced Technology Laboratories, Inc. 3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011642
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131214LCS		SampType: LCS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 91623			
Client ID: LCSW		Batch ID: P13VW200		TestNo: EPA 8260B		Analysis Date: 12/14/2013		SeqNo: 1703289			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	21.710	1.0	20.00	0	109	65	134				
Tert-amyl methyl ether	20.840	1.0	20.00	0	104	70	130				
Tert-Butanol	97.290	5.0	100.0	0	97.3	70	130				
tert-Butylbenzene	19.740	1.0	20.00	0	98.7	70	129				
Tetrachloroethene	22.220	1.0	20.00	0	111	66	128				
Toluene	19.720	2.0	20.00	0	98.6	77	122				
trans-1,2-Dichloroethene	17.800	1.0	20.00	0	89.0	63	137				
trans-1,3-Dichloropropene	22.250	1.0	20.00	0	111	59	135				
Trichloroethene	19.610	1.0	20.00	0	98.0	70	127				
Trichlorofluoromethane	18.140	1.0	20.00	0	90.7	57	129				
Vinyl chloride	19.680	0.50	20.00	0	98.4	50	134				
Xylenes, Total	60.850	2.0	60.00	0	101	75	125				
Surr: 1,2-Dichloroethane-d4	21.590		25.00		86.4	72	119				
Surr: 4-Bromofluorobenzene	25.780		25.00		103	76	119				
Surr: Dibromofluoromethane	21.570		25.00		86.3	85	115				
Surr: Toluene-d8	25.250		25.00		101	81	120				

Sample ID: P131214MB2		SampType: MBLK		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 91623			
Client ID: PBW		Batch ID: P13VW200		TestNo: EPA 8260B		Analysis Date: 12/14/2013		SeqNo: 1703290			
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									

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: CH2M HILL
Work Order: N011642
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131214MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91623						
Client ID: PBW	Batch ID: P13VW200	TestNo: EPA 8260B		Analysis Date: 12/14/2013	SeqNo: 1703290						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Acrolein	ND	20									
Acrylonitrile	ND	20									
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									

Qualifiers:

- | | | |
|--|--|--|
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CLIENT: CH2M HILL
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131214MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91623						
Client ID: PBW	Batch ID: P13VW200	TestNo: EPA 8260B		Analysis Date: 12/14/2013	SeqNo: 1703290						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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	ND	2.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
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									

Qualifiers:

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|--|--|--|
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 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P131214MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91623						
Client ID: PBW	Batch ID: P13VW200	TestNo: EPA 8260B		Analysis Date: 12/14/2013	SeqNo: 1703290						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	0.50									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	22.160		25.00		88.6	72	119				
Surr: 4-Bromofluorobenzene	24.920		25.00		99.7	76	119				
Surr: Dibromofluoromethane	22.030		25.00		88.1	85	115				
Surr: Toluene-d8	24.780		25.00		99.1	81	120				

Sample ID: N011641-001GMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91623						
Client ID: ZZZZZ	Batch ID: P13VW200	TestNo: EPA 8260B		Analysis Date: 12/14/2013	SeqNo: 1703292						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	21.640	1.0	20.00	0	108	81	129				
1,1,1-Trichloroethane	19.370	1.0	20.00	0	96.9	67	132				
1,1,2,2-Tetrachloroethane	20.630	1.0	20.00	0	103	63	128				
1,1,2-Trichloroethane	19.470	1.0	20.00	0	97.4	75	125				
1,1-Dichloroethane	18.780	0.50	20.00	0	93.9	69	133				
1,1-Dichloroethene	18.040	1.0	20.00	0	90.2	68	130				
1,1-Dichloropropene	18.920	1.0	20.00	0	94.6	73	132				
1,2,3-Trichlorobenzene	20.380	1.0	20.00	0	102	67	137				
1,2,3-Trichloropropane	19.820	1.0	20.00	0	99.1	73	124				
1,2,4-Trichlorobenzene	20.210	1.0	20.00	0	101	66	134				
1,2,4-Trimethylbenzene	19.300	1.0	20.00	0	96.5	74	132				
1,2-Dibromo-3-chloropropane	19.450	2.0	20.00	0	97.3	50	132				
1,2-Dibromoethane	20.460	1.0	20.00	0	102	80	121				
1,2-Dichlorobenzene	19.220	1.0	20.00	0	96.1	71	122				
1,2-Dichloroethane	18.980	0.50	20.00	0	94.9	69	132				
1,2-Dichloropropane	18.520	1.0	20.00	0	92.6	75	125				
1,3,5-Trimethylbenzene	19.370	1.0	20.00	0	96.9	74	131				
1,3-Dichlorobenzene	19.160	1.0	20.00	0	95.8	75	124				

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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**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011642
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011641-001GMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91623
Client ID: ZZZZZ	Batch ID: P13VW200	TestNo: EPA 8260B		Analysis Date: 12/14/2013	SeqNo: 1703292

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	19.650	1.0	20.00	0	98.2	73	126				
1,4-Dichlorobenzene	19.570	1.0	20.00	0	97.9	74	123				
2,2-Dichloropropane	21.580	1.0	20.00	0	108	69	137				
2-Butanone	178.870	10	200.0	0	89.4	49	136				
2-Chlorotoluene	18.590	1.0	20.00	0	93.0	73	126				
4-Chlorotoluene	19.070	1.0	20.00	0	95.4	74	128				
4-Isopropyltoluene	21.020	1.0	20.00	0	105	73	130				
4-Methyl-2-pentanone	211.690	10	200.0	0	106	58	134				
Acetone	169.710	10	200.0	0	84.9	40	135				
Acrolein	164.780	20	200.0	0	82.4	75	125				
Acrylonitrile	207.580	20	200.0	0	104	75	125				
Benzene	19.100	1.0	20.00	0	95.5	81	122				
Bromobenzene	20.450	1.0	20.00	0	102	76	124				
Bromochloromethane	18.380	1.0	20.00	0	91.9	65	129				
Bromodichloromethane	20.090	1.0	20.00	0	100	76	121				
Bromoform	26.300	1.0	20.00	0	132	69	128				S
Bromomethane	16.760	1.0	20.00	0	83.8	53	141				
Carbon disulfide	16.860	1.0	20.00	0	84.3	75	125				
Carbon tetrachloride	22.520	0.50	20.00	0	113	66	138				
Chlorobenzene	19.130	1.0	20.00	0	95.7	81	122				
Chloroethane	17.880	1.0	20.00	0	89.4	58	133				
Chloroform	17.910	1.0	20.00	0	89.6	69	128				
Chloromethane	16.340	1.0	20.00	0	81.7	56	131				
cis-1,2-Dichloroethene	17.070	1.0	20.00	0	85.4	72	126				
cis-1,3-Dichloropropene	19.500	1.0	20.00	0	97.5	69	131				
Di-isopropyl ether	16.410	1.0	20.00	0	82.0	70	130				
Dibromochloromethane	21.940	1.0	20.00	0	110	66	133				
Dibromomethane	21.860	1.0	20.00	0	109	76	125				
Dichlorodifluoromethane	18.730	1.0	20.00	0	93.6	53	153				
Ethyl tert-butyl ether	17.990	1.0	20.00	0	90.0	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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CLIENT: CH2M HILL
Work Order: N011642
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011641-001GMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91623						
Client ID: ZZZZZ	Batch ID: P13VW200	TestNo: EPA 8260B		Analysis Date: 12/14/2013	SeqNo: 1703292						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	19.730	1.0	20.00	0	98.6	73	127				
Freon-113	15.940	1.0	20.00	0	79.7	75	125				
Hexachlorobutadiene	18.440	1.0	20.00	0	92.2	67	131				
Isopropylbenzene	18.900	1.0	20.00	0	94.5	75	127				
m,p-Xylene	38.920	1.0	40.00	0	97.3	76	128				
Methylene chloride	16.130	2.0	20.00	0	80.6	63	137				
MTBE	17.310	1.0	20.00	0	86.6	65	123				
n-Butylbenzene	19.060	1.0	20.00	0	95.3	69	137				
n-Propylbenzene	19.130	1.0	20.00	0	95.7	72	129				
Naphthalene	19.360	1.0	20.00	0	96.8	54	138				
o-Xylene	19.480	1.0	20.00	0	97.4	80	121				
sec-Butylbenzene	18.550	1.0	20.00	0	92.8	72	127				
Styrene	16.580	1.0	20.00	0	82.9	65	134				
Tert-amyl methyl ether	20.230	1.0	20.00	0	101	70	130				
Tert-Butanol	107.850	5.0	100.0	0	108	70	130				
tert-Butylbenzene	18.620	1.0	20.00	0	93.1	70	129				
Tetrachloroethene	21.360	1.0	20.00	0	107	66	128				
Toluene	19.410	2.0	20.00	0	97.0	77	122				
trans-1,2-Dichloroethene	17.160	1.0	20.00	0	85.8	63	137				
trans-1,3-Dichloropropene	22.050	1.0	20.00	0	110	59	135				
Trichloroethene	18.920	1.0	20.00	0	94.6	70	127				
Trichlorofluoromethane	17.600	1.0	20.00	0	88.0	57	129				
Vinyl chloride	17.510	0.50	20.00	0	87.6	50	134				
Xylenes, Total	58.400	2.0	60.00	0	97.3	75	125				
Surr: 1,2-Dichloroethane-d4	21.550		25.00		86.2	72	119				
Surr: 4-Bromofluorobenzene	25.140		25.00		101	76	119				
Surr: Dibromofluoromethane	21.670		25.00		86.7	85	115				
Surr: Toluene-d8	24.780		25.00		99.1	81	120				

Qualifiers:

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



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
 Work Order: N011642
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011641-001GMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91623
Client ID: ZZZZZ	Batch ID: P13VW200	TestNo: EPA 8260B		Analysis Date: 12/14/2013	SeqNo: 1703293

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	21.270	1.0	20.00	0	106	81	129	21.64	1.72	20	
1,1,1-Trichloroethane	19.120	1.0	20.00	0	95.6	67	132	19.37	1.30	20	
1,1,2,2-Tetrachloroethane	20.460	1.0	20.00	0	102	63	128	20.63	0.827	20	
1,1,2-Trichloroethane	19.130	1.0	20.00	0	95.7	75	125	19.47	1.76	20	
1,1-Dichloroethane	18.630	0.50	20.00	0	93.2	69	133	18.78	0.802	20	
1,1-Dichloroethene	17.810	1.0	20.00	0	89.0	68	130	18.04	1.28	20	
1,1-Dichloropropene	18.690	1.0	20.00	0	93.5	73	132	18.92	1.22	20	
1,2,3-Trichlorobenzene	20.420	1.0	20.00	0	102	67	137	20.38	0.196	20	
1,2,3-Trichloropropane	20.170	1.0	20.00	0	101	73	124	19.82	1.75	20	
1,2,4-Trichlorobenzene	20.100	1.0	20.00	0	101	66	134	20.21	0.546	20	
1,2,4-Trimethylbenzene	19.430	1.0	20.00	0	97.2	74	132	19.30	0.671	20	
1,2-Dibromo-3-chloropropane	20.400	2.0	20.00	0	102	50	132	19.45	4.77	20	
1,2-Dibromoethane	20.390	1.0	20.00	0	102	80	121	20.46	0.343	20	
1,2-Dichlorobenzene	19.060	1.0	20.00	0	95.3	71	122	19.22	0.836	20	
1,2-Dichloroethane	19.040	0.50	20.00	0	95.2	69	132	18.98	0.316	20	
1,2-Dichloropropane	18.470	1.0	20.00	0	92.4	75	125	18.52	0.270	20	
1,3,5-Trimethylbenzene	19.220	1.0	20.00	0	96.1	74	131	19.37	0.777	20	
1,3-Dichlorobenzene	19.170	1.0	20.00	0	95.9	75	124	19.16	0.0522	20	
1,3-Dichloropropane	19.910	1.0	20.00	0	99.6	73	126	19.65	1.31	20	
1,4-Dichlorobenzene	19.420	1.0	20.00	0	97.1	74	123	19.57	0.769	20	
2,2-Dichloropropane	20.850	1.0	20.00	0	104	69	137	21.58	3.44	20	
2-Butanone	178.600	10	200.0	0	89.3	49	136	178.9	0.151	20	
2-Chlorotoluene	18.570	1.0	20.00	0	92.8	73	126	18.59	0.108	20	
4-Chlorotoluene	18.960	1.0	20.00	0	94.8	74	128	19.07	0.578	20	
4-Isopropyltoluene	20.970	1.0	20.00	0	105	73	130	21.02	0.238	20	
4-Methyl-2-pentanone	215.550	10	200.0	0	108	58	134	211.7	1.81	20	
Acetone	168.530	10	200.0	0	84.3	40	135	169.7	0.698	20	
Acrolein	161.770	20	200.0	0	80.9	75	125	164.8	1.84	20	
Acrylonitrile	207.860	20	200.0	0	104	75	125	207.6	0.135	20	
Benzene	19.050	1.0	20.00	0	95.2	81	122	19.10	0.262	20	

Qualifiers:

- | | | |
|--|--|--|
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CLIENT: CH2M HILL
 Work Order: N011642
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011641-001GMSD		SampType: MSD		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 91623	
Client ID: ZZZZZ		Batch ID: P13VW200		TestNo: EPA 8260B		Analysis Date: 12/14/2013		SeqNo: 1703293			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	20.190	1.0	20.00	0	101	76	124	20.45	1.28	20	
Bromochloromethane	18.040	1.0	20.00	0	90.2	65	129	18.38	1.87	20	
Bromodichloromethane	20.190	1.0	20.00	0	101	76	121	20.09	0.497	20	
Bromoform	26.190	1.0	20.00	0	131	69	128	26.30	0.419	20	S
Bromomethane	15.170	1.0	20.00	0	75.8	53	141	16.76	9.96	20	
Carbon disulfide	16.270	1.0	20.00	0	81.4	75	125	16.86	3.56	20	
Carbon tetrachloride	22.700	0.50	20.00	0	114	66	138	22.52	0.796	20	
Chlorobenzene	18.900	1.0	20.00	0	94.5	81	122	19.13	1.21	20	
Chloroethane	17.490	1.0	20.00	0	87.5	58	133	17.88	2.21	20	
Chloroform	17.860	1.0	20.00	0	89.3	69	128	17.91	0.280	20	
Chloromethane	15.950	1.0	20.00	0	79.8	56	131	16.34	2.42	20	
cis-1,2-Dichloroethene	16.950	1.0	20.00	0	84.8	72	126	17.07	0.705	20	
cis-1,3-Dichloropropene	19.550	1.0	20.00	0	97.8	69	131	19.50	0.256	20	
Di-isopropyl ether	16.530	1.0	20.00	0	82.6	70	130	16.41	0.729	20	
Dibromochloromethane	22.240	1.0	20.00	0	111	66	133	21.94	1.36	20	
Dibromomethane	21.450	1.0	20.00	0	107	76	125	21.86	1.89	20	
Dichlorodifluoromethane	17.960	1.0	20.00	0	89.8	53	153	18.73	4.20	20	
Ethyl tert-butyl ether	17.800	1.0	20.00	0	89.0	70	130	17.99	1.06	20	
Ethylbenzene	19.560	1.0	20.00	0	97.8	73	127	19.73	0.865	20	
Freon-113	15.210	1.0	20.00	0	76.1	75	125	15.94	4.69	20	
Hexachlorobutadiene	17.460	1.0	20.00	0	87.3	67	131	18.44	5.46	20	
Isopropylbenzene	18.720	1.0	20.00	0	93.6	75	127	18.90	0.957	20	
m,p-Xylene	38.810	1.0	40.00	0	97.0	76	128	38.92	0.283	20	
Methylene chloride	16.110	2.0	20.00	0	80.6	63	137	16.13	0.124	20	
MTBE	17.190	1.0	20.00	0	86.0	65	123	17.31	0.696	20	
n-Butylbenzene	18.940	1.0	20.00	0	94.7	69	137	19.06	0.632	20	
n-Propylbenzene	19.000	1.0	20.00	0	95.0	72	129	19.13	0.682	20	
Naphthalene	19.550	1.0	20.00	0	97.8	54	138	19.36	0.977	20	
o-Xylene	19.380	1.0	20.00	0	96.9	80	121	19.48	0.515	20	
sec-Butylbenzene	18.440	1.0	20.00	0	92.2	72	127	18.55	0.595	20	

Qualifiers:

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CLIENT: CH2M HILL
Work Order: N011642
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N011641-001GMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 91623						
Client ID: ZZZZZ	Batch ID: P13VW200	TestNo: EPA 8260B		Analysis Date: 12/14/2013	SeqNo: 1703293						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	15.510	1.0	20.00	0	77.6	65	134	16.58	6.67	20	
Tert-amyl methyl ether	20.420	1.0	20.00	0	102	70	130	20.23	0.935	20	
Tert-Butanol	106.240	5.0	100.0	0	106	70	130	107.8	1.50	20	
tert-Butylbenzene	18.310	1.0	20.00	0	91.6	70	129	18.62	1.68	20	
Tetrachloroethene	21.020	1.0	20.00	0	105	66	128	21.36	1.60	20	
Toluene	19.330	2.0	20.00	0	96.7	77	122	19.41	0.413	20	
trans-1,2-Dichloroethene	16.960	1.0	20.00	0	84.8	63	137	17.16	1.17	20	
trans-1,3-Dichloropropene	22.390	1.0	20.00	0	112	59	135	22.05	1.53	20	
Trichloroethene	18.940	1.0	20.00	0	94.7	70	127	18.92	0.106	20	
Trichlorofluoromethane	17.920	1.0	20.00	0	89.6	57	129	17.60	1.80	20	
Vinyl chloride	18.420	0.50	20.00	0	92.1	50	134	17.51	5.07	20	
Xylenes, Total	58.190	2.0	60.00	0	97.0	75	125	58.40	0.360	20	
Surr: 1,2-Dichloroethane-d4	21.690		25.00		86.8	72	119		0		
Surr: 4-Bromofluorobenzene	25.930		25.00		104	76	119		0		
Surr: Dibromofluoromethane	21.690		25.00		86.8	85	115		0		
Surr: Toluene-d8	24.860		25.00		99.4	81	120		0		

Qualifiers:

- | | | |
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Advanced Technology Laboratories, Inc.

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: 12/13/2013 Workorder: N011642
 Rep sample Temp (Deg C): 5.5, 4.4 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: ATL
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
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: MBC for: [Signature] 12/18/2013

Reviewed By: [Signature] 12/20/2013

Advanced Technology Laboratories, Inc.

WORK ORDER Summary

16-Dec-13

WorkOrder: N011642

Client ID: CH2HI01

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 12/14/2013

Comments: Report to D. Jablonski/CH2M HILL, cc:KMEP. Direct Bill KMEP/SFPP-Steve Defibaugh-ref.AFE# 81195. "J" Flags required / Use lowest possible detection l

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N011642-001A	INF-12/13	12/13/2013 11:45:00 AM	12/20/2013	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N011642-001B			12/20/2013		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			12/20/2013		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N011642-001C			12/20/2013		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N011642-002A	FOLDER		12/20/2013		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB