
First Quarter 2012 Remediation Progress Report SFPP Norwalk Pump Station Norwalk, California

Prepared for
Kinder Morgan Energy Partners, L.P.

1100 Town & Country Road
Orange, California 92868

April 16, 2012



1000 Wilshire Boulevard
21st Floor
Los Angeles, California 90017

Signature Page

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.



Mark Wuttig
CH2M HILL
California Professional Geologist, No. 6820

April 16, 2012

Date

Contents

Section	Page
Acronyms and Abbreviations	III
1. Introduction.....	1-1
2. Remediation Systems	2-1
3. Operations and Maintenance.....	3-1
4. Summary of Remediation Progress	4-1
5. System Evaluation and Optimization	5-1
6. Planned Fourth Quarter 2011 Activities	6-1
7. References.....	7-1

Appendix

A Laboratory Analytical Reports

Tables

1	Remediation Well Construction and Status
2	Vapor Remediation System Operation Summary
3	Groundwater Remediation System Operation Summary
4	Extracted Vapor Analytical Results
5	Extracted Groundwater Analytical Results
6	Remediation Well Vapor Concentrations
7	Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

Figures

1	Site Location Map
2	Remediation System Layout

Acronyms and Abbreviations

µg/L	micrograms per liter
1,2-DCA	1,2-dichloroethane
ASTM	American Society for Testing and Materials
ATL	Advanced Technology Laboratories
DFSP	Defense Fuel Support Point
DPE	dual-phase extraction
EPA	United States Environmental Protection Agency
FBBR	fluidized bed bioreactor
GAC	granular activated carbon
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, November 30, 2006
SFPP	SFPP, L.P.
SVE	soil vapor extraction
TBA	tertiary butyl alcohol
TFE	total fluids extraction
TPH-fp	total petroleum hydrocarbons quantified as fuel product

TPH-g	total petroleum hydrocarbons quantified as gasoline
VOC	volatile organic compound
WDR	Waste Discharge Requirement
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 (DFSP), located at 15306 Norwalk Boulevard, Norwalk, California (the site; Figure 1) during the first quarter 2012 reporting period.

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 (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 January through March 2012 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 January through March 2012 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) groundwater extraction system (WSB system) for remediation of the western offsite area was discontinued in August 2008. During the second quarter 2010, two WSB wells were temporarily operated to control the selenium concentration in extracted groundwater as discussed in the Selenium Management Evaluation Update submitted to the RWQCB on June 10, 2010 (AMEC, 2010a). Blending of extracted groundwater from the WSB system with groundwater from the south-central and southeastern areas was discontinued on June 22, 2010.

Remediation in the south-central and southeastern areas consists of SVE and TFE (GWE is also performed at two well locations in the south-central area). At several well locations, SVE is coupled with TFE (or GWE at two locations) in a process referred to as dual-phase extraction (DPE). 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 first quarter 2012. The remediation system layout is presented in Figure 2.

3. Operations and Maintenance

Tasks performed for O&M of the remediation systems during the reporting period included:

- Weekly maintenance and monitoring of the south-central and southeastern SVE, TFE/GWE, and soil vapor and groundwater treatment systems (collectively referred to as remediation systems)
- Removal, inspection, and repair of TFE/GWE pumps and associated discharge lines
- Measurements of individual well vapor concentrations
- Collection and analysis of system influent vapor and groundwater samples
- Gauging of selected remediation wells
- Troubleshooting of the SVE and TFE/GWE systems
- Replacement of the SVE flow sensor with a pitot tube to more accurately measure flow through the system
- Replacement of the memory card for the digital chart recorder
- Installation of a new transfer pump downstream of the OWS
- Inspection and minor repairs of SVE wells
- Draining of the SVE well manifold of condensate
- Installation of oxygen booster for both the FBBRs
- Replacement of solenoid valve for the proportional controller with an actuated ball valve
- Replacement of carbon from the lead LGAC vessel downstream of the OWS and from the lead polishing LGAC vessel

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 will be provided under separate cover in the NPDES effluent monitoring report for the first quarter 2012 period.

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 first quarter 2012 are summarized in Tables 2 and 3. The remediation systems operated during the first quarter 2012 with the following exceptions:

- The SVE and the TFE/GWE systems were shut down on January 3, 2012, to troubleshoot the chart recorder. The SVE system could not be turned back on due to a temperature control issue. The temperature control was reprogrammed on January 4, 2012, and the SVE system was restarted.

- The SVE and TFE/GWE system was turned off on January 6, 2012, to replace the memory card of the chart recorder. The system was turned back on the same day.
- On January 10, 2012, the system was turned off to replace the effluent sample tubing. The system was turned back on the same day.
- On January 17, 2012, the system was off on arrival due to a high level in the transfer tank. The transfer pump was inoperable, and was therefore replaced on January 19, 2012. The TFE/GWE system was restarted the next day on January 20, 2012.
- The system was off on arrival on January 24, 2012, due to a high level in the transfer tank. The bag filters downstream of the transfer tank were replaced and the LGAC vessels downstream of the bag filters were backwashed. The TFE/GWE system was restarted on the same day.
- The SVE system was shut down on February 24, 2012, to drain the condensate from the SVE manifold. The SVE was turned back on the same day and the technicians left the site. However, the system unexpectedly shut down minutes after the technicians left the site. The system was off until the technicians returned the following Tuesday, February 28, 2012, to turn on the system.
- Due to solidification of the carbons in the lead polishing LGAC vessel, a high level in the equalization tank would occasionally turn the system off during the months of January and February 2012. Currently, the pH is being adjusted at the bioreactors to prevent the carbons from solidifying. Additional pH adjustments also will be made at the effluent tanks of each of the bioreactors. The carbon in the lead LGAC vessel was changed out on January 31 and February 1, 2012. In addition, the solenoid valve for the proportional controller did not function properly and was replaced with an actuated ball valve during the week of February 13, 2012. The proportional controller slows down the influent flow (from the extraction wells) to match the flow through the bioreactors. With the proportional controller working properly, the high level in the equalization tank was never activated, and there were fewer shutdowns during the end of the month.
- On March 2, 12, 16, and 20, 2012, the system was off on arrival due to a high level in the transfer tank underneath the OWS. The high level in the transfer tank was due to particulates from the wells plugging the bag filters and the lead LGAC vessel downstream of the OWS. The lead LGAC vessel was subsequently backwashed and the bag filters replaced. On March 2, 2012, the lead LGAC vessel was bypassed and the spare vessel onsite was put online. The carbon inside the former lead vessel was changed out on March 16, 2012, and will be used as the spare.

Overall, during the first quarter 2012, the SVE system operated approximately 94 percent of the time, while the TFE/GWE system operated approximately 80 percent of the time.

Vapor samples from the SVE system influent and water samples from TFE/GWE system influent were collected during the first quarter 2012 when the systems were in operation. During the first quarter 2012, influent vapor samples were collected on January 10, February 28, and March 13, 2012, when the SVE system was operating. Influent water samples were collected on January 10, February 21, and March 13, 2012, when the TFE/GWE system was operating. 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 American Society for Testing and Materials (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 and TPH quantified as fuel product (TPH-fp) 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 A.

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 of the TFE/GWE and SVE wells were measured during the first quarter 2012 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 7,593 pounds during the first quarter 2012, for a cumulative mass removal of approximately 42,765 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 1,600,698 gallons of groundwater was extracted during the first quarter 2012 (Table 3). No water was extracted from the WSB area during the first quarter 2012.

Groundwater extraction was discontinued in the WSB region during the third quarter 2008 based on the reduced lateral extent and low concentrations of methyl tertiary butyl ether (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 first quarter 2012. 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 69 pounds during the first quarter 2012, for a cumulative mass removed from these areas of approximately 1,668 pounds since implementing the system upgrades described in the Second Addendum (Table 3). TPH-fp also was detected in the influent water samples; however, TPH-fp results were not used to calculate mass removal for dissolved petroleum hydrocarbons because the ranges of hydrocarbons for TPH-g and TPH-fp overlap. Because the nonoverlapping portion of the TPH-fp range was not used in the mass removal calculation, and the amount of free product removed by TFE was not estimated, the total mass of petroleum hydrocarbons removed by TFE may be underestimated.

5. System Evaluation and Optimization

For the SVE treatment system, during the first quarter 2012, vapor-phase VOC concentrations were measured in individual wells using a PID on January 10, February 21, and March 27, 2012, as shown in Table 6. The operation status of the SVE wells at the end of the first quarter 2012 is also shown in Table 1. PID readings recorded on January 10 and February 21, 2012, indicate VOC concentrations are close to or higher than 100 ppmv in several SVE wells; therefore, the SVE system will be operated until influent VOC concentrations reach low asymptotic levels. The PID used on March 27, 2012, was malfunctioning at the time of sampling; therefore, the measurements collected are likely not representative of true conditions. On February 21, 2012, the SVE conveyance lines were inspected and some minor leaks (i.e., intake of ambient air) were discovered. It is anticipated that these leaks will be repaired in April 2012.

Groundwater monitoring in the WSB region during the first quarter 2012 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, groundwater elevations and product thicknesses in the south-central area have generally decreased since implementing the Second Addendum. TFE will continue to be performed in areas with remaining free product. Selected remediation wells will continue to be monitored quarterly to assess remediation performance; remediation pump settings will be adjusted accordingly to optimize free product recovery and enhance hydraulic control of dissolved plumes.

The systems currently consist of 20 wells operated for product recovery and hydraulic control in the south-central part of the site (including 18 wells operated for TFE and 2 wells operated for GWE), and 3 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 first quarter 2012, there were five TFE/GWE wells online from the south-central area (MW-SF-3, MW-SF-11, MW-SF-14, MW-SF-16, and GMW-O-21) and three wells from the southeastern area (GMW-O-15, GMW-O-18, and GMW-36). Additional extraction wells will be brought online during the second quarter 2012, as needed.

During the first quarter 2012, the lead LGAC vessel downgradient of the OWS was bypassed and the spare vessel onsite was brought online. The carbon in the bypassed LGAC vessel was changed out on March 16, 2012. The lead polishing LGAC vessel was changed out three times during the first quarter 2012 due to solidification of the carbon during January and February, and solids from dying biomass clogging the carbons during March 2012. The reason for the solidification of the carbon in the lead polishing LGAC vessel was the precipitation of carbonates in the pretreated water. Currently, the pH is being adjusted at the bioreactors to reduce the formation of these precipitates. Additional pH adjustments also will be made in the effluent tanks of each of the bioreactors to further reduce the formation of precipitates.

During February and March 2012, solids due to dying biomass inside one of the bioreactors caused occasional plugging of the bag filters and the lead polishing LGAC vessel, which caused the effluent flow to decrease. Due to the low concentrations of dissolved oxygen in one of the FBBRs, oxygen boosters were installed on February 24, 2012, to provide sufficient oxygen to keep the biomass healthy. Occasional shutdowns of the groundwater treatment system and operation of the bioreactors on recycle mode also may have caused the biomass to die. An additional factor for plugging of the bag filters and lead LGAC vessel was the malfunctioning of the bead filter for one of the bioreactors. The bead filter prevents the buildup of solids inside the bioreactors. The bead filter was repaired on March 23, 2012, and the system has been operational since that time. Troubleshooting of the bioreactors will continue during the second quarter of 2012.

6. Planned Second Quarter 2012 Activities

During the second quarter 2012, SFPP plans to continue to focus remedial efforts on the south-central and southeastern areas. The following maintenance activities are planned to be completed during the second quarter 2012:

- 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.
- Rewire the electrical for the TFE/GWE system control panel.
- Continue to adjust pH of pretreated groundwater in the TBA treatment system to control the formation of precipitates. Install the acid adjustment assembly at the effluent tanks of the bioreactors.
- Continue to troubleshoot the solids formation (dying biomass) at one of the bioreactors.
- Begin repairs to onsite southeastern area groundwater conveyance line to allow operation of extraction wells GMW-SF-9 and GMW-SF-10.

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 second quarter 2012 will be described in the second quarter 2012 remediation progress report to be submitted by July 15, 2012.

7. References

- AMEC. 2010a. Letter to Mr. Paul Cho, California Regional Water Quality Control Board. Selenium Management Evaluation Update, Defense Fuel Support Point Norwalk. June 10.
- AMEC. 2010b. *Remediation Progress Report, First Quarter 2010, Defense Fuel Support Point Norwalk*. April 15.
- AMEC. 2010c. *Remediation Progress Report, Second Quarter 2010, Defense Fuel Support Point Norwalk*. July 15.
- 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.
- CH2M HILL. 2010. *Third Quarter 2010 Remediation Progress Report, Defense Fuel Support Point Norwalk, California*. October 15.
- CH2M HILL. 2011a. *Fourth Quarter 2010 Remediation Progress Report and Annual 2010 Summary, Defense Fuel Support Point Norwalk, California*. January 14.
- CH2M HILL. 2011b. *Remediation System Operational Status, January 2011, Defense Fuel Support Point (DFSP), Norwalk*. February 15.
- CH2M HILL. 2011c. *Remediation System Operational Status, February 2011, Defense Fuel Support Point (DFSP), Norwalk*. March 15.
- CH2M HILL. 2011d. *Remediation System Operational Status, March 2011, Defense Fuel Support Point (DFSP), Norwalk*. April 12.
- CH2M HILL. 2011e. *Remediation System Operational Status, April 2011, Defense Fuel Support Point (DFSP), Norwalk*. May 13.
- CH2M HILL. 2011f. *Remediation System Operational Status, May 2011, Defense Fuel Support Point (DFSP), Norwalk*. June 15.
- CH2M HILL. 2011g. *Remediation System Operational Status, June 2011, Defense Fuel Support Point (DFSP), Norwalk*. July 15.
- CH2M HILL. 2011h. *Draft First Semiannual 2011 Groundwater Monitoring Report, Defense Fuel Support Point, Norwalk, California*. July 7.
- 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 Remedial Action Plan, Defense Fuel Support Point Norwalk, Norwalk, California*. November 30.

Kinder Morgan Energy Partners, LP (KMEP). 2010. Letter to Mr. Paul Cho, California Regional Water Quality Control Board. Transmittal of Selenium Management Summary Report for the SFPP, L.P. Norwalk Station, 15306 Norwalk Boulevard, Norwalk, California. April 1.

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 2012 ¹	
						SVE	TFE/GWE
South-Central	MW-SF-1	6/18/1990	78.93	25 - 40	SVE	ON	--
	MW-SF-2	6/18/1990	78.53	25 - 40	SVE; TFE	ON	OFF
	MW-SF-3	6/18/1990	78.12	25 - 40	SVE; TFE	OFF	ON
	MW-SF-4	6/19/1990	79.38	25 - 40	SVE	OFF	--
	MW-SF-5	9/19/1990	79.74	23 - 38	SVE	ON	--
	MW-SF-6	9/19/1990	76.80	25 - 40	SVE; TFE	OFF	OFF
	MW-SF-9	6/15/1995	74.10	--	SVE	OFF	--
	MW-SF-10	9/23/2003	76.53	10 - 30	SVE	OFF	--
	MW-SF-11	6/19/2007	78.56	20 - 40	SVE; TFE	OFF	ON
	MW-SF-12	6/18/2007	78.07	20 - 40	SVE; TFE	ON	OFF
	MW-SF-13	6/19/2007	73.40	20 - 40	SVE; TFE	ON	OFF
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	ON	ON
	MW-SF-15	6/21/2007	78.27	20 - 40	SVE; TFE	OFF	OFF
	MW-SF-16	6/20/2007	78.21	20 - 40	SVE; TFE	OFF	ON
	GMW-9	7/8/1991	74.44	20 - 50	SVE; TFE	OFF	OFF
	GMW-10	7/8/1991	74.67	25 - 50	SVE	ON	--
	GMW-22	8/2/1991	74.17	25 - 60	SVE; TFE	OFF	OFF
	GMW-24	8/5/1991	74.04	25 - 60	SVE; TFE	OFF	OFF
	GMW-25	1/10/1992	74.29	20 - 50	SVE; GWE	OFF	OFF
	GWR-3	1/10/1992	74.93	20 - 50	SVE; GWE	OFF	OFF
	VEW-1	--	--	--	SVE	ON	--
	VEW-2	--	--	--	SVE	OFF	--
	MW-O-1	1/22/1991	75.48	25 - 40	SVE; TFE	ON	OFF
	MW-O-2	1/23/1991	71.90	25 - 40	SVE; TFE	ON	OFF
	GMW-O-11	5/20/1992	74.17	20 - 50	SVE; TFE	ON	OFF
	GMW-O-12	5/21/1992	73.49	20 - 50	SVE	ON	--
GMW-O-20	6/15/1995	73.32	--	SVE; TFE	ON	OFF	
GMW-O-21	10/1/1997	71.43	26 - 46	TFE	--	ON	
GMW-O-23	6/25/2007	73.63	20 - 40	SVE; TFE	ON	OFF	
MW-18 (MID)	6/10/1991	75.67	50 - 60	SVE	OFF	--	
HW-1	09/06/92	--	--	SVE	OFF	--	
HW-2	09/06/92	--	--	SVE	OFF	--	
Southeastern	GMW-O-15	4/19/1994	74.23	20 - 50	SVE; TFE	ON	ON
	GMW-O-18	7/25/1994	74.36	21 - 40	SVE; TFE	ON	ON
	GMW-36	4/11/1994	74.53	20 - 50	TFE	--	ON
	GMW-SF-9	4/1/2003	73.00	37 - 46	GWE	--	OFF
	GMW-SF-10	4/2/2003	75.77	37 - 46	GWE	--	OFF
West Side Barrier	BW-2	5/20/1996	73.57	27 - 47	GWE	NA	OFF
	BW-3	5/17/1996	74.16	31 - 50	GWE	NA	OFF
	BW-4	5/20/1996	74.61	28 - 47	GWE	NA	OFF
	BW-5	5/23/1996	73.59	27 - 46	GWE	NA	OFF
	BW-6	5/22/1996	73.48	28 - 47	GWE	NA	OFF
	BW-7	5/22/1996	74.65	27 - 46	GWE	NA	OFF
	BW-8	5/21/1996	75.08	27 - 46	GWE	NA	OFF
	BW-9	5/21/1996	76.19	27 - 46	GWE	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 ("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
01/03/12	77,589.1	5,220	--	42 ⁵	2,046 ⁶	50	129
01/04/12	77,590.0	101	--	55	2,046 ⁶	50	2
01/05/12	77,608.2	19	--	55 ⁵	2,046 ⁶	48	31
01/06/12	77,631.5	42	--	62	2,057	48	45
01/07/12	77,647.7	40	--	62 ⁵	2,057 ⁶	53	31
01/10/12	77,722.5	91	11	18	2,156	50	44
01/13/12	77,789.9	142	--	18 ⁵	1,826	50	33
01/17/12	77,887.9	165	--	21	1,781	55	55
01/19/12	77,935.9	146	--	21 ⁵	1,712	55	26
01/20/12	77,955.1	67	--	21 ⁵	1,846	50	11
01/24/12	78,052.7	117	--	8	1,822	50	21
01/27/12	78,128.5	173	--	8 ⁵	1,674	50	15
01/31/12	78,221.0	168	--	4	1,778	50	10
02/03/12	78,297.0	169	--	4 ⁵	1,729	50	8
02/07/12	78,390.3	169	--	48	1,733	50	116
02/10/12	78,463.0	166	--	48 ⁵	1,635	50	86
02/14/12	78,553.4	163	--	10	1,789	50	25
02/17/12	78,627.2	164	--	10 ⁵	1,707	55	20
02/21/12	78,721.5	168	--	970	2,079	50	2,853
02/24/12	78,794.6	167	--	970 ⁵	1,713	50	1,823
02/28/12	78,795.2	74	27	970 ⁵	1,980	48	17
03/02/12	78,871.8	77	--	615	1,792	50	1,267
03/06/12	78,965.0	170	--	0	1,766	50	0
03/09/12	79,034.8	163	--	0 ⁵	1,764	50	0
03/12/12	79,107.8	143	--	0 ⁵	1,746	50	0
03/13/12	79,131.5	97	27	90	1,740	50	56
03/16/12	79,202.2	94	--	90	1,741	50	166
03/20/12	79,299.3	168	--	110	1,778	50	285
03/23/12	79,371.4	169	--	110 ⁵	1,714	50	204
03/26/12	79,447.4	148	--	110 ⁵	1,710	50	215
03/27/12	79,467.2	96	--	0	1,748	50	0
03/30/12	79,539.6	92	--	0 ⁵	1,761	50	0
First Quarter 2012 Totals	79,539.6	9,149	--	--	--	--	7,593
Cumulative Mass Removed Since Implementation of RAP Upgrades⁴							42,765

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 Remedial Action Plan (Geomatrix, 2006).
- Used previous PID reading to obtain mass removed.
- Chart recorder was inoperable, therefore, used previous flow readings to obtain mass removed.

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
 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) ⁸	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
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
1/1/2012	0	0	0	780	0.00
1/2/2012	0	0	0	780	0.00
1/3/2012	0	0	0	780	0.00
1/4/2012	4,562	0	4,562	780	0.03
1/5/2012	12,389	0	12,389	780	0.08
1/6/2012	19,231	0	19,231	780	0.12
1/7/2012	7,352	0	7,352	780	0.05
1/8/2012	14,374	0	14,374	780	0.09
1/9/2012	14,547	0	14,547	780	0.09
1/10/2012	13,909	0	13,909	5,300	0.61
1/11/2012	18,143	0	18,143	5,300	0.80
1/12/2012	21,221	0	21,221	5,300	0.94
1/13/2012	20,806	0	20,806	5,300	0.92
1/14/2012	19,042	0	19,042	5,300	0.84
1/15/2012	17,945	0	17,945	5,300	0.79
1/16/2012	3	0	3	5,300	0.00
1/17/2012	0	0	0	5,300	0.00
1/18/2012	0	0	0	5,300	0.00
1/19/2012	0	0	0	5,300	0.00
1/20/2012	0	0	0	5,300	0.00
1/21/2012	18,890	0	18,890	5,300	0.83
1/22/2012	26,121	0	26,121	5,300	1.15
1/23/2012	24,241	0	24,241	5,300	1.07
1/24/2012	0	0	0	5,300	0.00
1/25/2012	15,728	0	15,728	5,300	0.69
1/26/2012	22,570	0	22,570	5,300	0.99
1/27/2012	17,873	0	17,873	5,300	0.79
1/28/2012	15,346	0	15,346	5,300	0.68
1/29/2012	14,891	0	14,891	5,300	0.66
1/30/2012	10,810	0	10,810	5,300	0.48
1/31/2012	8,504	0	8,504	5,300	0.37
2/1/2012	16,269	0	16,269	5,300	0.72
2/2/2012	19,881	0	19,881	5,300	0.88
2/3/2012	19,037	0	19,037	5,300	0.84
2/4/2012	15,983	0	15,983	5,300	0.70
2/5/2012	18,221	0	18,221	5,300	0.80
2/6/2012	17,857	0	17,857	5,300	0.79
2/7/2012	17,614	0	17,614	5,300	0.78
2/8/2012	21,314	0	21,314	5,300	0.94
2/9/2012	25,813	0	25,813	5,300	1.14
2/10/2012	25,683	0	25,683	5,300	1.13
2/11/2012	22,963	0	22,963	5,300	1.01
2/12/2012	22,701	0	22,701	5,300	1.00
2/13/2012	22,386	0	22,386	5,300	0.99
2/14/2012	22,910	0	22,910	5,300	1.01
2/15/2012	21,744	0	21,744	5,300	0.96
2/16/2012	20,972	0	20,972	5,300	0.92
2/17/2012	16,272	0	16,272	5,300	0.72
2/18/2012	19,882	0	19,882	5,300	0.88
2/19/2012	21,816	0	21,816	5,300	0.96
2/20/2012	21,800	0	21,800	5,300	0.96
2/21/2012	20,729	0	20,729	4,900	0.84
2/22/2012	24,360	0	24,360	4,900	0.99
2/23/2012	27,604	0	27,604	4,900	1.12
2/24/2012	26,972	0	26,972	4,900	1.10

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) ⁸	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
2/25/2012	23,880	0	23,880	4,900	0.97
2/26/2012	23,403	0	23,403	4,900	0.95
2/27/2012	23,273	0	23,273	4,900	0.95
2/28/2012	23,295	0	23,295	4,900	0.95
2/29/2012	22,680	0	22,680	4,900	0.92
3/1/2012	22,982	0	22,982	4,900	0.94
3/2/2012	21,227	0	21,227	4,900	0.86
3/3/2012	11,954	0	11,954	4,900	0.49
3/4/2012	23,049	0	23,049	4,900	0.94
3/5/2012	23,706	0	23,706	4,900	0.97
3/6/2012	23,545	0	23,545	4,900	0.96
3/7/2012	24,187	0	24,187	4,900	0.99
3/8/2012	23,644	0	23,644	4,900	0.96
3/9/2012	23,456	0	23,456	4,900	0.96
3/10/2012	23,308	0	23,308	4,900	0.95
3/11/2012	22,949	0	22,949	4,900	0.94
3/12/2012	11,108	0	11,108	4,900	0.45
3/13/2012	9,443	0	9,443	6,100	0.48
3/14/2012	24,423	0	24,423	6,100	1.24
3/15/2012	24,246	0	24,246	6,100	1.23
3/16/2012	24,282	0	24,282	6,100	1.23
3/17/2012	19,144	0	19,144	6,100	0.97
3/18/2012	23,339	0	23,339	6,100	1.18
3/19/2012	21,605	0	21,605	6,100	1.10
3/20/2012	18,731	0	18,731	6,100	0.95
3/21/2012	20,169	0	20,169	6,100	1.02
3/22/2012	19,330	0	19,330	6,100	0.98
3/23/2012	18,548	0	18,548	6,100	0.94
3/24/2012	17,162	0	17,162	6,100	0.87
3/25/2012	13,512	0	13,512	6,100	0.69
3/26/2012	13,828	0	13,828	6,100	0.70
3/27/2012	12,806	0	12,806	6,100	0.65
3/28/2012	16,120	0	16,120	6,100	0.82
3/29/2012	20,315	0	20,315	6,100	1.03
3/30/2012	20,308	0	20,308	6,100	1.03
3/31/2012	22,460	0	22,460	6,100	1.14
First Quarter 2012 Totals	1,600,698	0	1,600,698	--	69
Cumulative TPH-g Removed Since Implementation of RAP Upgrades⁵					1,668

Notes

1. The TPH-g 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 removed.
2. Mass of TPH-g removed (pounds) is based on concentrations of dissolved TPH-g in the most recent TFE system influent samples and the volume of groundwater extracted by TFE. TPH-fp concentrations also were detected in the TFE system influent samples (see Table 5), but were not used in estimating the mass of petroleum hydrocarbons removed from groundwater.
3. The 2007 total includes only operation after upgrades were made to the south-central system.
4. 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.
5. Upgrades to the south-central remediation system are described in the Second Addendum to Remedial Action Plan (Geomatrix, 2006).

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

Abbreviations

TPH-g = total petroleum hydrocarbons quantified as gasoline (C4-C12)
 TPH-fp = total petroleum hydrocarbons quantified as free product
 µg/L = micrograms per liter

TABLE 4

Extracted Vapor Analytical Results¹

SFPD 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

Notes

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

Abbreviations

ASTM = 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-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
7/27/2011	14,000	-- 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

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 A.
- TPH-fp result from influent extracted groundwater sample collected on July 10, 2008.
- July 27, 2011 sample was not analyzed for TPH-fp, but for TPH-diesel (10,000 µg/L) and TPH-oil (44 µg/L).

Abbreviations

TPH-g = total petroleum hydrocarbons quantified as gasoline (C4-C12)
 TPH-fp = total petroleum hydrocarbons quantified as fuel products (C7-C28)
 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	1/10/2012 (ppmv as Hexane) ²	2/21/2012 (ppmv as Hexane) ²	3/27/2012 ³ (ppmv as Hexane) ²
	MW-SF-1	SVE	0	0	0
	MW-SF-2	SVE; TFE	0	0	0
	MW-SF-3	SVE; TFE	30	220	0
	MW-SF-4	SVE	0	0	0
	MW-SF-5	SVE	0	0	0
	MW-SF-6	SVE; TFE	0	10	0
	MW-SF-9	SVE	0	30	0
	MW-SF-10	SVE	2	10	0
	MW-SF-11	SVE; TFE	16	40	0
	MW-SF-12	SVE; TFE	50	1,070	0
	MW-SF-13	SVE; TFE	4	0	0
	MW-SF-14	SVE; TFE	10	0	0
	MW-SF-15	SVE; TFE	0	0	0
	MW-SF-16	SVE; TFE	18	630	0
South-Central	GMW-9	SVE; TFE	8	30	0
	GMW-10	SVE	546	2,990	0
	GMW-22	SVE; TFE	8	30	0
	GMW-24	SVE; TFE	34	70	0
	GMW-25	SVE; GWE	34	70	0
	GWR-3	SVE; GWE	108	790	0
	VEW-1	SVE	0	0	0
	VEW-2	SVE	0	10	0
	MW-O-1	SVE; TFE	18	130	0
	MW-O-2	SVE; TFE	4	0	0
	GMW-O-11	SVE; TFE	0	0	0
	GMW-O-12	SVE	40	30	0
	GMW-O-20	SVE; TFE	20	1,810	0
GMW-O-23	SVE; TFE	2	0	0	
	MW-18 (MID)	SVE	10	0	0
	HW-1 ⁴	SVE	---	---	---
	HW-2	SVE	2	70	0
Southeastern	GMW-O-15	SVE; TFE	12	11,000	0
	GMW-O-18	SVE; TFE	12	11,000	0

Notes

- The well operations listed correspond to the well functions indicated in the Remediation Well Function Column.
- Vapor readings measured in the field with a photoionization detector (PID) calibrated using 50 ppmv of hexane.
- On March 27, 2012, the field PID was malfunctioning during the time of sampling, therefore, results are likely not representative of true conditions.
- SVE well HW-1 is currently not connected to the SVE system.

--- = does not apply

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
 NM = not measured

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	
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	
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	
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	
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	

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-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
	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	
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	
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	
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	

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-O-15	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	
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
	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	
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	
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
	GMW-O-23	8/14/2007	73.63	23.33	---	---	50.30
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

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-O-23	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	
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	
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
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
	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
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	
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	
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
	1/9/2012	71.90	28.13	---	---	43.77	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

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-1	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	
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
	MW-SF-3	11/12/2007	78.12	29.34	28.28	1.06	---
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
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	

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-4	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
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	
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	
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
	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	
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	---	---	47.92	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-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	
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	
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	---	---	47.68	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
	8/15/2008	78.16	29.77	29.24	0.53	---	Envent
10/17/2008	78.16	29.52	29.50	0.02	---	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
MW-SF-14	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	
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	
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
	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	

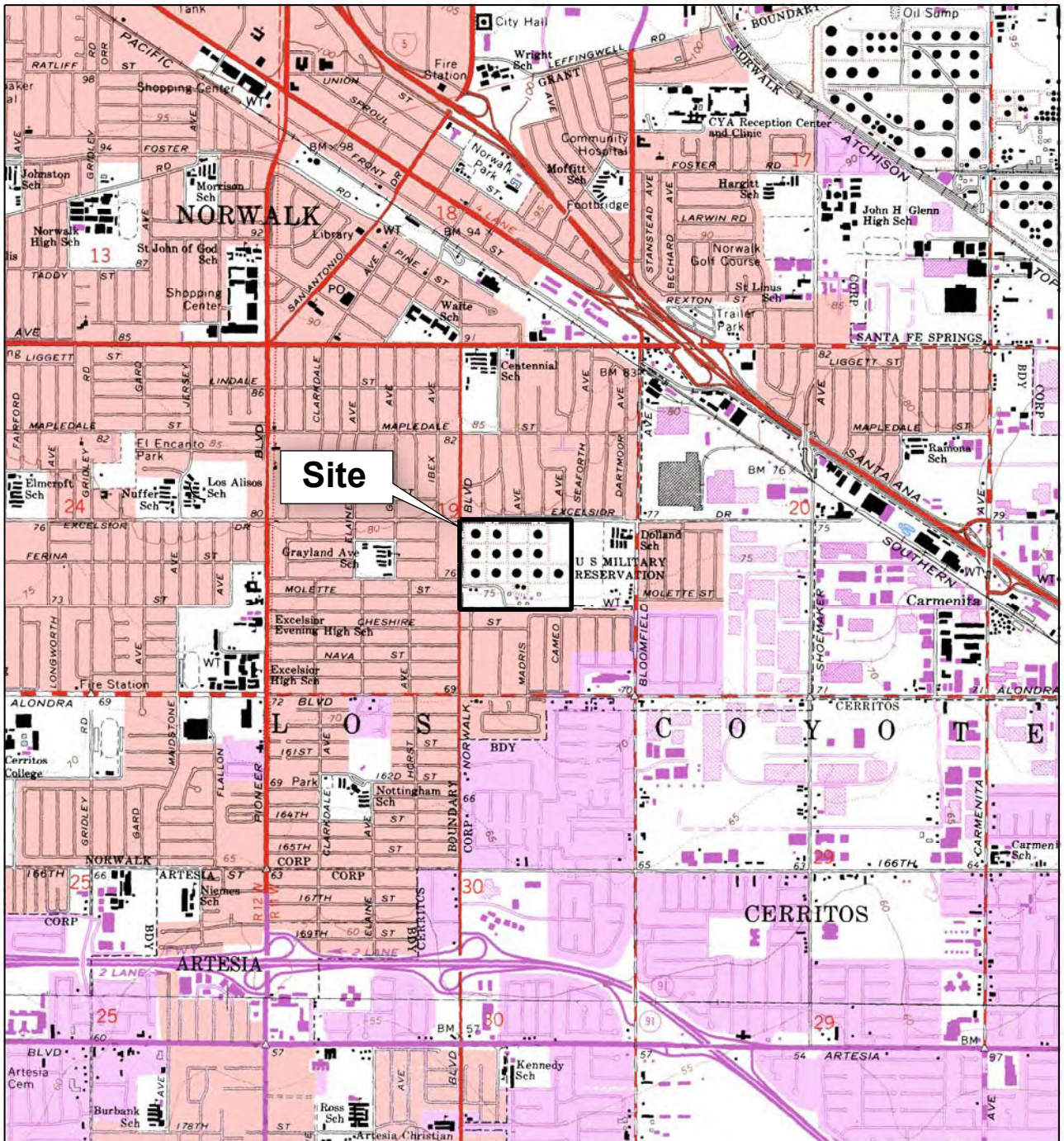
Abbreviations

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

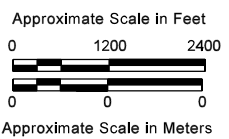
ft btoc = feet below top of casing

--- = not detected or not applicable

Figures



Site



SITE LOCATION MAP
DFSP NORWALK
Norwalk, California

By: Andy Vollmar Date: July 21, 2010 Project No: 407609


CH2MHILL Figure 1

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
- Estimated extent of detected dissolved TPH in groundwater (concentration dependent on laboratory reporting limit); dashed where inferred
- Lines of equal TPH concentration (µg/L) in groundwater; dashed where inferred
- KMEP Remediation Piping Layout (above ground and below ground)
- - - Horizontal Vapor Extraction Well Piping
- Approximate Location of Air Compressor Shed



120 60 0 120
Feet

REMEDIATION SYSTEM LAYOUT
DFSP NORWALK
Norwalk, California

By: Scott Wolfskill	Date: 4/11/2012	Project No: 406972
CH2MHILL		Figure 2

Appendix A

Laboratory Analytical Reports

April 10, 2012

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.: N007141

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on January 10, 2012 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.

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

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

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

Sincerely,



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

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 10-Apr-12

CLIENT: CH2M HILL
Lab Order: N007141
Project: SFPP - Norwalk Site
Lab ID: N007141-001

Client Sample ID: INF-01-10
Collection Date: 1/10/2012 12:45:00 PM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_120113A	QC Batch: D12VW005	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.061	1.0	µg/L	1	1/13/2012 08:09 PM
1,1,1-Trichloroethane	ND	0.068	1.0	µg/L	1	1/13/2012 08:09 PM
1,1,2,2-Tetrachloroethane	ND	0.054	1.0	µg/L	1	1/13/2012 08:09 PM
1,1,2-Trichloroethane	ND	0.083	1.0	µg/L	1	1/13/2012 08:09 PM
1,1-Dichloroethane	ND	0.099	0.50	µg/L	1	1/13/2012 08:09 PM
1,1-Dichloroethene	ND	0.094	1.0	µg/L	1	1/13/2012 08:09 PM
1,1-Dichloropropene	ND	0.082	1.0	µg/L	1	1/13/2012 08:09 PM
1,2,3-Trichlorobenzene	ND	0.10	1.0	µg/L	1	1/13/2012 08:09 PM
1,2,3-Trichloropropane	ND	0.12	1.0	µg/L	1	1/13/2012 08:09 PM
1,2,4-Trichlorobenzene	ND	0.12	1.0	µg/L	1	1/13/2012 08:09 PM
1,2,4-Trimethylbenzene	31	0.095	1.0	µg/L	1	1/13/2012 08:09 PM
1,2-Dibromo-3-chloropropane	ND	0.15	2.0	µg/L	1	1/13/2012 08:09 PM
1,2-Dibromoethane	ND	0.14	1.0	µg/L	1	1/13/2012 08:09 PM
1,2-Dichlorobenzene	ND	0.070	1.0	µg/L	1	1/13/2012 08:09 PM
1,2-Dichloroethane	ND	0.17	0.50	µg/L	1	1/13/2012 08:09 PM
1,2-Dichloropropane	ND	0.085	1.0	µg/L	1	1/13/2012 08:09 PM
1,3,5-Trimethylbenzene	9.9	0.087	1.0	µg/L	1	1/13/2012 08:09 PM
1,3-Dichlorobenzene	ND	0.090	1.0	µg/L	1	1/13/2012 08:09 PM
1,3-Dichloropropane	ND	0.074	1.0	µg/L	1	1/13/2012 08:09 PM
1,4-Dichlorobenzene	ND	0.092	1.0	µg/L	1	1/13/2012 08:09 PM
2,2-Dichloropropane	ND	0.061	1.0	µg/L	1	1/13/2012 08:09 PM
2-Butanone	ND	1.0	10	µg/L	1	1/13/2012 08:09 PM
2-Chlorotoluene	ND	0.080	1.0	µg/L	1	1/13/2012 08:09 PM
4-Chlorotoluene	ND	0.10	1.0	µg/L	1	1/13/2012 08:09 PM
4-Isopropyltoluene	0.59	0.080	1.0	J µg/L	1	1/13/2012 08:09 PM
4-Methyl-2-pentanone	ND	0.76	10	µg/L	1	1/13/2012 08:09 PM
Acetone	ND	1.6	10	µg/L	1	1/13/2012 08:09 PM
Acrolein	ND	4.3	20	µg/L	1	1/13/2012 08:09 PM
Acrylonitrile	ND	0.61	20	µg/L	1	1/13/2012 08:09 PM
Benzene	3400	7.5	100	µg/L	100	1/14/2012 10:52 AM
Bromobenzene	ND	0.082	1.0	µg/L	1	1/13/2012 08:09 PM
Bromochloromethane	ND	0.15	1.0	µg/L	1	1/13/2012 08:09 PM
Bromodichloromethane	ND	0.063	1.0	µg/L	1	1/13/2012 08:09 PM
Bromoform	ND	0.086	1.0	µg/L	1	1/13/2012 08:09 PM
Bromomethane	ND	0.13	1.0	µg/L	1	1/13/2012 08:09 PM
Carbon disulfide	ND	0.054	1.0	µg/L	1	1/13/2012 08:09 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: 10-Apr-12

CLIENT: CH2M HILL
Lab Order: N007141
Project: SFPP - Norwalk Site
Lab ID: N007141-001

Client Sample ID: INF-01-10
Collection Date: 1/10/2012 12:45:00 PM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_120113A	QC Batch: D12VW005	PrepDate:	Analyst: QBM			
Carbon tetrachloride	ND	0.10	1.0	µg/L	1	1/13/2012 08:09 PM
Chlorobenzene	ND	0.092	1.0	µg/L	1	1/13/2012 08:09 PM
Chloroethane	ND	0.14	1.0	µg/L	1	1/13/2012 08:09 PM
Chloroform	ND	0.058	1.0	µg/L	1	1/13/2012 08:09 PM
Chloromethane	ND	0.054	1.0	µg/L	1	1/13/2012 08:09 PM
cis-1,2-Dichloroethene	ND	0.11	1.0	µg/L	1	1/13/2012 08:09 PM
cis-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	1/13/2012 08:09 PM
Di-isopropyl ether	26	0.072	1.0	µg/L	1	1/13/2012 08:09 PM
Dibromochloromethane	ND	0.061	1.0	µg/L	1	1/13/2012 08:09 PM
Dibromomethane	ND	0.15	1.0	µg/L	1	1/13/2012 08:09 PM
Dichlorodifluoromethane	ND	0.12	1.0	µg/L	1	1/13/2012 08:09 PM
Ethyl tert-butyl ether	ND	0.070	1.0	µg/L	1	1/13/2012 08:09 PM
Ethylbenzene	36	0.051	1.0	µg/L	1	1/13/2012 08:09 PM
Freon-113	ND	0.080	1.0	µg/L	1	1/13/2012 08:09 PM
Hexachlorobutadiene	ND	0.17	1.0	µg/L	1	1/13/2012 08:09 PM
Isopropylbenzene	14	0.057	1.0	µg/L	1	1/13/2012 08:09 PM
m,p-Xylene	130	0.17	1.0	µg/L	1	1/13/2012 08:09 PM
Methylene chloride	ND	0.10	2.0	µg/L	1	1/13/2012 08:09 PM
MTBE	200	0.89	10	µg/L	10	1/13/2012 07:48 PM
n-Butylbenzene	2.0	0.082	1.0	µg/L	1	1/13/2012 08:09 PM
n-Propylbenzene	29	0.087	1.0	µg/L	1	1/13/2012 08:09 PM
Naphthalene	90	0.056	1.0	µg/L	1	1/13/2012 08:09 PM
o-Xylene	42	0.077	1.0	µg/L	1	1/13/2012 08:09 PM
sec-Butylbenzene	2.0	0.098	1.0	µg/L	1	1/13/2012 08:09 PM
Styrene	ND	0.072	1.0	µg/L	1	1/13/2012 08:09 PM
Tert-amyl methyl ether	ND	0.10	1.0	µg/L	1	1/13/2012 08:09 PM
Tert-Butanol	960	12	50	µg/L	10	1/13/2012 07:48 PM
tert-Butylbenzene	ND	0.062	1.0	µg/L	1	1/13/2012 08:09 PM
Tetrachloroethene	ND	0.13	1.0	µg/L	1	1/13/2012 08:09 PM
Toluene	70	0.12	2.0	µg/L	1	1/13/2012 08:09 PM
trans-1,2-Dichloroethene	ND	0.094	1.0	µg/L	1	1/13/2012 08:09 PM
trans-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	1/13/2012 08:09 PM
Trichloroethene	ND	0.060	1.0	µg/L	1	1/13/2012 08:09 PM
Trichlorofluoromethane	ND	0.097	1.0	µg/L	1	1/13/2012 08:09 PM
Vinyl chloride	ND	0.12	1.0	µg/L	1	1/13/2012 08:09 PM
Xylenes, Total	170	1.5	2.0	µg/L	1	1/13/2012 08:09 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
Lab Order: N007141
Project: SFPP - Norwalk Site
Lab ID: N007141-001

Client Sample ID: INF-01-10
Collection Date: 1/10/2012 12:45:00 PM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_120113A	QC Batch: D12VW005	PrepDate:	Analyst: QBM			
Surr: 1,2-Dichloroethane-d4	94.6	0	72-119	%REC	1	1/13/2012 08:09 PM
Surr: 1,2-Dichloroethane-d4	98.2	0	72-119	%REC	100	1/14/2012 10:52 AM
Surr: 1,2-Dichloroethane-d4	101	0	72-119	%REC	10	1/13/2012 07:48 PM
Surr: 4-Bromofluorobenzene	96.7	0	76-119	%REC	1	1/13/2012 08:09 PM
Surr: 4-Bromofluorobenzene	98.2	0	76-119	%REC	10	1/13/2012 07:48 PM
Surr: 4-Bromofluorobenzene	97.5	0	76-119	%REC	100	1/14/2012 10:52 AM
Surr: Dibromofluoromethane	97.4	0	85-115	%REC	1	1/13/2012 08:09 PM
Surr: Dibromofluoromethane	108	0	85-115	%REC	10	1/13/2012 07:48 PM
Surr: Dibromofluoromethane	102	0	85-115	%REC	100	1/14/2012 10:52 AM
Surr: Toluene-d8	89.7	0	81-120	%REC	1	1/13/2012 08:09 PM
Surr: Toluene-d8	95.8	0	81-120	%REC	10	1/13/2012 07:48 PM
Surr: Toluene-d8	94.5	0	81-120	%REC	100	1/14/2012 10:52 AM

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

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL

Work Order: N007141

Project: SFPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID:	D120113LCS	SampType:	LCS	TestCode:	8260_WP_SF	Units:	µg/L	Prep Date:	RunNo:	82873	
Client ID:	LCSW	Batch ID:	D12VW005	TestNo:	EPA 8260B			Analysis Date:	SeqNo:	1349598	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.140	1.0	20.00	0	101	81	129				
1,1,1-Trichloroethane	23.400	1.0	20.00	0	117	67	132				
1,1,2,2-Tetrachloroethane	19.950	1.0	20.00	0	99.8	63	128				
1,1,2-Trichloroethane	18.990	1.0	20.00	0	95.0	75	125				
1,1-Dichloroethane	19.280	0.50	20.00	0	96.4	69	133				
1,1-Dichloroethene	23.150	1.0	20.00	0	116	68	130				
1,1-Dichloropropene	20.830	1.0	20.00	0	104	73	132				
1,2,3-Trichlorobenzene	21.320	1.0	20.00	0	107	67	137				
1,2,3-Trichloropropane	20.840	1.0	20.00	0	104	73	124				
1,2,4-Trichlorobenzene	21.290	1.0	20.00	0	106	66	134				
1,2,4-Trimethylbenzene	20.260	1.0	20.00	0	101	74	132				
1,2-Dibromo-3-chloropropane	17.960	2.0	20.00	0	89.8	50	132				
1,2-Dibromoethane	19.270	1.0	20.00	0	96.4	80	121				
1,2-Dichlorobenzene	20.060	1.0	20.00	0	100	71	122				
1,2-Dichloroethane	19.720	0.50	20.00	0	98.6	69	132				
1,2-Dichloropropane	19.810	1.0	20.00	0	99.0	75	125				
1,3,5-Trimethylbenzene	20.580	1.0	20.00	0	103	74	131				
1,3-Dichlorobenzene	20.400	1.0	20.00	0	102	75	124				
1,3-Dichloropropane	20.600	1.0	20.00	0	103	73	126				
1,4-Dichlorobenzene	20.090	1.0	20.00	0	100	74	123				
2,2-Dichloropropane	24.520	1.0	20.00	0	123	69	137				
2-Butanone	186.710	10	200.0	0	93.4	49	136				
2-Chlorotoluene	20.180	1.0	20.00	0	101	73	126				
4-Chlorotoluene	20.360	1.0	20.00	0	102	74	128				
4-Isopropyltoluene	20.880	1.0	20.00	0	104	73	130				
4-Methyl-2-pentanone	173.250	10	200.0	0	86.6	58	134				
Acetone	168.500	10	200.0	0	84.2	40	135				
Acrolein	178.690	20	200.0	0	89.3	75	125				
Acrylonitrile	201.020	20	200.0	0	101	75	125				

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N007141
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D120113LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 82873						
Client ID: LCSW	Batch ID: D12VW005	TestNo: EPA 8260B		Analysis Date: 1/13/2012	SeqNo: 1349598						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	20.780	1.0	20.00	0	104	81	122				
Bromobenzene	19.680	1.0	20.00	0	98.4	76	124				
Bromochloromethane	20.120	1.0	20.00	0	101	65	129				
Bromodichloromethane	20.070	1.0	20.00	0	100	76	121				
Bromoform	18.290	1.0	20.00	0	91.4	69	128				
Bromomethane	11.190	1.0	20.00	0	56.0	53	141				
Carbon disulfide	20.240	1.0	20.00	0	101	75	125				
Carbon tetrachloride	21.630	1.0	20.00	0	108	66	138				
Chlorobenzene	19.630	1.0	20.00	0	98.2	81	122				
Chloroethane	25.690	1.0	20.00	0	128	58	133				
Chloroform	22.080	1.0	20.00	0	110	69	128				
Chloromethane	17.530	1.0	20.00	0	87.6	56	131				
cis-1,2-Dichloroethene	19.130	1.0	20.00	0	95.7	72	126				
cis-1,3-Dichloropropene	19.550	1.0	20.00	0	97.8	69	131				
Di-isopropyl ether	21.320	1.0	20.00	0	107	70	130				
Dibromochloromethane	18.790	1.0	20.00	0	94.0	66	133				
Dibromomethane	17.910	1.0	20.00	0	89.6	76	125				
Dichlorodifluoromethane	18.510	1.0	20.00	0	92.6	53	153				
Ethyl tert-butyl ether	20.760	1.0	20.00	0	104	70	130				
Ethylbenzene	19.900	1.0	20.00	0	99.5	73	127				
Freon-113	20.550	1.0	20.00	0	103	75	125				
Hexachlorobutadiene	21.040	1.0	20.00	0	105	67	131				
Isopropylbenzene	20.460	1.0	20.00	0	102	75	127				
m,p-Xylene	39.950	1.0	50.00	0	79.9	76	128				
Methylene chloride	18.330	2.0	20.00	0	91.7	63	137				
MTBE	20.490	1.0	20.00	0	102	65	123				
n-Butylbenzene	21.630	1.0	20.00	0	108	69	137				
n-Propylbenzene	20.720	1.0	20.00	0	104	72	129				
Naphthalene	20.930	1.0	20.00	0	105	54	138				
o-Xylene	20.010	1.0	20.00	0	100	80	121				

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: N007141
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D120113LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 82873
Client ID: LCSW	Batch ID: D12VW005	TestNo: EPA 8260B		Analysis Date: 1/13/2012	SeqNo: 1349598

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
sec-Butylbenzene	20.590	1.0	20.00	0	103	72	127				
Styrene	20.730	1.0	20.00	0	104	65	134				
Tert-amyl methyl ether	19.040	1.0	20.00	0	95.2	70	130				
Tert-Butanol	76.690	5.0	100.0	0	76.7	70	130				
tert-Butylbenzene	20.300	1.0	20.00	0	102	70	129				
Tetrachloroethene	20.890	1.0	20.00	0	104	66	128				
Toluene	18.520	2.0	20.00	0	92.6	77	122				
trans-1,2-Dichloroethene	19.450	1.0	20.00	0	97.3	63	137				
trans-1,3-Dichloropropene	18.460	1.0	20.00	0	92.3	59	135				
Trichloroethene	20.340	1.0	20.00	0	102	70	127				
Trichlorofluoromethane	19.810	1.0	20.00	0	99.0	57	129				
Vinyl chloride	18.360	1.0	20.00	0	91.8	50	134				
Xylenes, Total	59.960	2.0	60.00	0	99.9	75	125				
Surr: 1,2-Dichloroethane-d4	25.800		25.00		103	72	119				
Surr: 4-Bromofluorobenzene	24.670		25.00		98.7	76	119				
Surr: Dibromofluoromethane	27.050		25.00		108	85	115				
Surr: Toluene-d8	24.170		25.00		96.7	81	120				

Sample ID: N007135-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 82873
Client ID: ZZZZZ	Batch ID: D12VW005	TestNo: EPA 8260B		Analysis Date: 1/13/2012	SeqNo: 1349599

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.450	1.0	20.00	0	102	81	129				
1,1,1-Trichloroethane	24.070	1.0	20.00	0	120	67	132				
1,1,2,2-Tetrachloroethane	16.910	1.0	20.00	0	84.6	63	128				
1,1,2-Trichloroethane	21.840	1.0	20.00	0	109	75	125				
1,1-Dichloroethane	19.070	0.50	20.00	0	95.4	69	133				
1,1-Dichloroethene	23.130	1.0	20.00	0	116	68	130				
1,1-Dichloropropene	21.640	1.0	20.00	0	108	73	132				
1,2,3-Trichlorobenzene	18.840	1.0	20.00	0	94.2	67	137				

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N007141
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N007135-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZ	Batch ID: D12VW005	TestNo: EPA 8260B	
Prep Date:		RunNo: 82873	
Analysis Date: 1/13/2012		SeqNo: 1349599	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trichloropropane	15.490	1.0	20.00	0	77.4	73	124				
1,2,4-Trichlorobenzene	20.030	1.0	20.00	0	100	66	134				
1,2,4-Trimethylbenzene	33.210	1.0	20.00	4,200	145	74	132				S
1,2-Dibromo-3-chloropropane	14.610	2.0	20.00	0	73.0	50	132				
1,2-Dibromoethane	15.740	1.0	20.00	0	78.7	80	121				S
1,2-Dichlorobenzene	19.430	1.0	20.00	0	97.2	71	122				
1,2-Dichloroethane	16.760	0.50	20.00	0	83.8	69	132				
1,2-Dichloropropane	19.520	1.0	20.00	0	97.6	75	125				
1,3,5-Trimethylbenzene	23.030	1.0	20.00	1,190	109	74	131				
1,3-Dichlorobenzene	20.400	1.0	20.00	0	102	75	124				
1,3-Dichloropropane	18.790	1.0	20.00	0	94.0	73	126				
1,4-Dichlorobenzene	19.730	1.0	20.00	0	98.6	74	123				
2,2-Dichloropropane	25.800	1.0	20.00	0	129	69	137				
2-Butanone	93.800	10	200.0	0	46.9	49	136				S
2-Chlorotoluene	20.860	1.0	20.00	0	104	73	126				
4-Chlorotoluene	20.720	1.0	20.00	0	104	74	128				
4-Isopropyltoluene	21.870	1.0	20.00	0	109	73	130				
4-Methyl-2-pentanone	125.470	10	200.0	0	62.7	58	134				
Acetone	79.760	10	200.0	0	39.9	40	135				
Acrolein	197.310	20	200.0	0	98.7	75	125				
Acrylonitrile	154.520	20	200.0	0	77.3	75	125				
Benzene	22.960	1.0	20.00	1,950	105	81	122				
Bromobenzene	19.550	1.0	20.00	0	97.8	76	124				
Bromochloromethane	17.990	1.0	20.00	0	90.0	65	129				
Bromodichloromethane	18.920	1.0	20.00	0	94.6	76	121				
Bromoform	15.390	1.0	20.00	0	77.0	69	128				
Bromomethane	11.780	1.0	20.00	0	58.9	53	141				
Carbon disulfide	20.280	1.0	20.00	0	101	75	125				
Carbon tetrachloride	22.040	1.0	20.00	0	110	66	138				
Chlorobenzene	19.720	1.0	20.00	0	98.6	81	122				

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: N007141
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	TestCode: 8260_WP_SF		Prep Date:	
												Units: µg/L	MS	Analysis Date: 1/13/2012	RunNo: 82873
												Batch ID: D12VW005		SeqNo: 1349599	
Chloroethane	28.810	1.0	20.00	0	144	58	133				S				
Chloroform	22.820	1.0	20.00	0	114	69	128								
Chloromethane	17.590	1.0	20.00	0	88.0	56	131								
cis-1,2-Dichloroethene	18.640	1.0	20.00	0	93.2	72	126								
cis-1,3-Dichloropropene	18.210	1.0	20.00	0	91.1	69	131								
Dj-isopropyl ether	20.670	1.0	20.00	0	103	70	130								
Dibromochloromethane	18.220	1.0	20.00	0	91.1	66	133								
Dibromomethane	15.180	1.0	20.00	0	75.9	76	125								
Dichlorodifluoromethane	18.440	1.0	20.00	0	92.2	53	153								
Ethyl tert-butyl ether	19.550	1.0	20.00	0	97.8	70	130								
Ethylbenzene	42.930	1.0	20.00	20.79	111	73	127								
Freon-113	21.650	1.0	20.00	0	108	75	125								
Hexachlorobutadiene	20.520	1.0	20.00	0	103	67	131								
Isopropylbenzene	24.770	1.0	20.00	2.700	110	75	127								
m,p-Xylene	55.180	1.0	50.00	11.63	87.1	76	128								
Methylene chloride	16.570	2.0	20.00	0	82.8	63	137								
MTBE	18.030	1.0	20.00	0	90.2	65	123								
n-Butylbenzene	22.880	1.0	20.00	0	114	69	137								
n-Propylbenzene	26.370	1.0	20.00	3.980	112	72	129								
Naphthalene	22.700	1.0	20.00	3.460	96.2	54	138								
o-Xylene	21.880	1.0	20.00	1.560	102	80	121								
sec-Butylbenzene	23.880	1.0	20.00	2.070	109	72	127								
Styrene	19.770	1.0	20.00	0	98.8	65	134								
Tert-amyl methyl ether	16.980	1.0	20.00	0	84.9	70	130								
Tert-Butanol	57.530	5.0	100.0	0	57.5	70	130								S
tert-Butylbenzene	21.560	1.0	20.00	0	108	70	129								
Tetrachloroethene	37.050	1.0	20.00	12.98	120	66	128								
Toluene	18.540	2.0	20.00	1.100	87.2	77	122								
trans-1,2-Dichloroethene	19.460	1.0	20.00	0	97.3	63	137								
trans-1,3-Dichloropropene	15.960	1.0	20.00	0	79.8	59	135								

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

ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N007141
Project: SFPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: N007135-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 82873						
Client ID: ZZZZZZ	Batch ID: D12VW005	TestNo: EPA 8260B		Analysis Date: 1/13/2012	SeqNo: 1349599						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	25.590	1.0	20.00	4.200	107	70	127				
Trichlorofluoromethane	19.780	1.0	20.00	0	98.9	57	129				
Vinyl chloride	18.410	1.0	20.00	0	92.0	50	134				
Xylenes, Total	77.060	2.0	60.00	13.19	106	75	125				
Surr: 1,2-Dichloroethane-d4	23.540		25.00		94.2	72	119				
Surr: 4-Bromofluorobenzene	24.090		25.00		96.4	76	119				
Surr: Dibromofluoromethane	25.920		25.00		104	85	115				
Surr: Toluene-d8	23.560		25.00		94.2	81	120				

Sample ID: N007135-001AMS	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 82873						
Client ID: ZZZZZZ	Batch ID: D12VW005	TestNo: EPA 8260B		Analysis Date: 1/13/2012	SeqNo: 1349600						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.010	1.0	20.00	0	100	81	129	20.45	2.17	20	
1,1,1-Trichloroethane	24.360	1.0	20.00	0	122	67	132	24.07	1.20	20	
1,1,2,2-Tetrachloroethane	16.570	1.0	20.00	0	82.8	63	128	16.91	2.03	20	
1,1,2-Trichloroethane	21.570	1.0	20.00	0	108	75	125	21.84	1.24	20	
1,1-Dichloroethane	19.030	0.50	20.00	0	95.2	69	133	19.07	0.210	20	
1,1-Dichloroethene	22.650	1.0	20.00	0	113	68	130	23.13	2.10	20	
1,1-Dichloropropene	21.250	1.0	20.00	0	106	73	132	21.64	1.82	20	
1,2,3-Trichlorobenzene	19.810	1.0	20.00	0	99.0	67	137	18.84	5.02	20	
1,2,3-Trichloropropane	15.090	1.0	20.00	0	75.5	73	124	15.49	2.62	20	
1,2,4-Trichlorobenzene	21.060	1.0	20.00	0	105	66	134	20.03	5.01	20	
1,2,4-Trimethylbenzene	29.710	1.0	20.00	4.200	128	74	132	33.21	11.1	20	
1,2-Dibromo-3-chloropropane	15.160	2.0	20.00	0	75.8	50	132	14.61	3.69	20	
1,2-Dibromoethane	15.850	1.0	20.00	0	79.2	80	121	15.74	0.696	20	S
1,2-Dichlorobenzene	19.520	1.0	20.00	0	97.6	71	122	19.43	0.462	20	
1,2-Dichloroethane	16.580	0.50	20.00	0	82.9	69	132	16.76	1.08	20	
1,2-Dichloropropane	19.770	1.0	20.00	0	98.8	75	125	19.52	1.27	20	
1,3,5-Trimethylbenzene	21.860	1.0	20.00	1.190	103	74	131	23.03	5.21	20	

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N007141
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N007135-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZ	Batch ID: D12VW005	TestNo: EPA 8260B	Prep Date:
		Analysis Date: 1/13/2012	RunNo: 82873
			SeqNo: 1349600

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	20.660	1.0	20.00	0	103	75	124	20.40	1.27	20	
1,3-Dichloropropane	18.810	1.0	20.00	0	94.1	73	126	18.79	0.106	20	
1,4-Dichlorobenzene	19.890	1.0	20.00	0	99.4	74	123	19.73	0.808	20	
2,2-Dichloropropane	25.410	1.0	20.00	0	127	69	137	25.80	1.52	20	
2-Butanone	93.120	1.0	200.0	0	46.6	49	136	93.80	0.728	20	S
2-Chlorotoluene	20.690	1.0	20.00	0	103	73	126	20.86	0.818	20	
4-Chlorotoluene	20.630	1.0	20.00	0	103	74	128	20.72	0.435	20	
4-Isopropyltoluene	21.550	1.0	20.00	0	108	73	130	21.87	1.47	20	
4-Methyl-2-pentanone	128.900	1.0	200.0	0	64.4	58	134	125.5	2.70	20	
Acetone	77.570	1.0	200.0	0	38.8	40	135	79.76	2.78	20	S
Acrolein	198.750	2.0	200.0	0	99.4	75	125	197.3	0.727	20	
Acrylonitrile	161.680	2.0	200.0	0	80.8	75	125	154.5	4.53	20	
Benzene	22.810	1.0	20.00	1.950	104	81	122	22.96	0.655	20	
Bromobenzene	19.410	1.0	20.00	0	97.0	76	124	19.55	0.719	20	
Bromochloromethane	18.090	1.0	20.00	0	90.4	65	129	17.99	0.554	20	
Bromodichloromethane	19.820	1.0	20.00	0	99.1	76	121	18.92	4.65	20	
Bromoform	15.340	1.0	20.00	0	76.7	69	128	15.39	0.325	20	
Bromomethane	11.920	1.0	20.00	0	59.6	53	141	11.78	1.18	20	
Carbon disulfide	20.580	1.0	20.00	0	103	75	125	20.28	1.47	20	
Carbon tetrachloride	22.000	1.0	20.00	0	110	66	138	22.04	0.182	20	
Chlorobenzene	19.630	1.0	20.00	0	98.2	81	122	19.72	0.457	20	
Chloroethane	27.030	1.0	20.00	0	135	58	133	28.81	6.38	20	S
Chloroform	22.890	1.0	20.00	0	114	69	128	22.82	0.306	20	
Chloromethane	17.340	1.0	20.00	0	86.7	56	131	17.59	1.43	20	
cis-1,2-Dichloroethene	19.160	1.0	20.00	0	95.8	72	126	18.64	2.75	20	
cis-1,3-Dichloropropene	18.550	1.0	20.00	0	92.8	69	131	18.21	1.85	20	
Di-isopropyl ether	20.710	1.0	20.00	0	104	70	130	20.67	0.193	20	
Dibromochloromethane	17.730	1.0	20.00	0	88.6	66	133	18.22	2.73	20	
Dibromomethane	15.230	1.0	20.00	0	76.2	76	125	15.18	0.329	20	
Dichlorodifluoromethane	18.490	1.0	20.00	0	92.5	53	153	18.44	0.271	20	

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N007141
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	Prep Date:	
												TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZZ	Batch ID: D12VW005												
Sample ID: N007135-001AMSD	SampType: MSD												
Analysis Date: 1/13/2012													
Ethyl tert-butyl ether	19.500	1.0	20.00	0	97.5	70	130	19.55	0.256	20			
Ethylbenzene	41.760	1.0	20.00	20.79	105	73	127	42.93	2.76	20			
Freon-113	21.750	1.0	20.00	0	109	75	125	21.65	0.461	20			
Hexachlorobutadiene	20.790	1.0	20.00	0	104	67	131	20.52	1.31	20			
Isopropylbenzene	24.240	1.0	20.00	2.700	108	75	127	24.77	2.16	20			
m,p-Xylene	53.460	1.0	50.00	11.63	83.7	76	128	55.18	3.17	20			
Methylene chloride	17.210	2.0	20.00	0	86.1	63	137	16.57	3.79	20			
MTBE	18.210	1.0	20.00	0	91.1	65	123	18.03	0.993	20			
n-Butylbenzene	22.800	1.0	20.00	0	114	69	137	22.88	0.350	20			
n-Propylbenzene	25.980	1.0	20.00	3.980	110	72	129	26.37	1.49	20			
Naphthalene	22.960	1.0	20.00	3.460	97.5	54	138	22.70	1.14	20			
o-Xylene	21.520	1.0	20.00	1.560	99.8	80	121	21.88	1.66	20			
sec-Butylbenzene	23.690	1.0	20.00	2.070	108	72	127	23.88	0.799	20			
Styrene	16.990	1.0	20.00	0	85.0	65	134	19.77	15.1	20			
Tert-amyl methyl ether	16.910	1.0	20.00	0	84.6	70	130	16.98	0.413	20			
Tert-Butanol	58.990	5.0	100.0	0	59.0	70	130	57.53	2.51	20			
tert-Butylbenzene	21.300	1.0	20.00	0	106	70	129	21.56	1.21	20			
Tetrachloroethene	35.890	1.0	20.00	12.98	115	66	128	37.05	3.18	20			
Toluene	18.800	2.0	20.00	1.100	88.5	77	122	18.54	1.39	20			
trans-1,2-Dichloroethene	19.670	1.0	20.00	0	98.4	63	137	19.46	1.07	20			
trans-1,3-Dichloropropene	16.090	1.0	20.00	0	80.4	59	135	15.96	0.811	20			
Trichloroethene	25.280	1.0	20.00	4.200	105	70	127	25.59	1.22	20			
Trichlorofluoromethane	19.780	1.0	20.00	0	98.9	57	129	19.78	0	20			
Vinyl chloride	18.230	1.0	20.00	0	91.2	50	134	18.41	0.983	20			
Xylenes, Total	74.980	2.0	60.00	13.19	103	75	125	77.06	2.74	20			
Surr: 1,2-Dichloroethane-d4	23.910		25.00		95.6	72	119		0				
Surr: 4-Bromofluorobenzene	24.170		25.00		96.7	76	119		0				
Surr: Dibromofluoromethane	26.180		25.00		105	85	115		0				
Surr: Toluene-d8	23.760		25.00		95.0	81	120		0				

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

ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N007141
Project: SFPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: D120113MB3 **SampType:** MBLK **TestCode:** 8260_WP_SF **Units:** µg/L **Prep Date:** **RunNo:** 82873
Client ID: PBW **Batch ID:** D12VW005 **TestNo:** EPA 8260B **Analysis Date:** 1/13/2012 **SeqNo:** 1349601

Analyte	Result	PQL	SPK value	SPK Ref Val	Units	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0										
1,1,1-Trichloroethane	ND	1.0										
1,1,2,2-Tetrachloroethane	ND	1.0										
1,1,2-Trichloroethane	ND	1.0										
1,1-Dichloroethane	ND	0.50										
1,1-Dichloroethene	ND	1.0										
1,1-Dichloropropene	ND	1.0										
1,2,3-Trichlorobenzene	ND	1.0										
1,2,3-Trichloropropane	ND	1.0										
1,2,4-Trichlorobenzene	ND	1.0										
1,2,4-Trimethylbenzene	ND	1.0										
1,2-Dibromo-3-chloropropane	ND	2.0										
1,2-Dibromoethane	ND	1.0										
1,2-Dichlorobenzene	ND	1.0										
1,2-Dichloroethane	ND	0.50										
1,2-Dichloropropane	ND	1.0										
1,3,5-Trimethylbenzene	ND	1.0										
1,3-Dichlorobenzene	ND	1.0										
1,3-Dichloropropane	ND	1.0										
1,4-Dichlorobenzene	ND	1.0										
2,2-Dichloropropane	ND	1.0										
2-Butanone	ND	10										
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										

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: N007141
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D120113MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 82873						
Client ID: PBW	Batch ID: D12VW005	TestNo: EPA 8260B		Analysis Date: 1/13/2012	SeqNo: 1349601						
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
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	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	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									

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: N007141
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D120113MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 82873						
Client ID: PBW	Batch ID: D12VW005	TestNo: EPA 8260B		Analysis Date: 1/13/2012	SeqNo: 1349601						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	24.940		25.00		99.8	72		119			
Surr: 4-Bromofluorobenzene	25.160		25.00		101	76		119			
Surr: Dibromofluoromethane	25.940		25.00		104	85		115			
Surr: Toluene-d8	24.730		25.00		98.9	81		120			

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- 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: N007141
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D120114LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 82875						
Client ID: LCSW	Batch ID: D12VW006	TestNo: EPA 8260B		Analysis Date: 1/14/2012	SeqNo: 1349240						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	21.090	1.0	20.00	0	105	81	122				
Surr: 1,2-Dichloroethane-d4	26.360		25.00		105	72	119				
Surr: 4-Bromofluorobenzene	24.780		25.00		99.1	76	119				
Surr: Dibromofluoromethane	27.240		25.00		109	85	115				
Surr: Toluene-d8	24.660		25.00		98.6	81	120				

Sample ID: D120114MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 82875						
Client ID: PBW	Batch ID: D12VW006	TestNo: EPA 8260B		Analysis Date: 1/14/2012	SeqNo: 1349242						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	1.0									
Surr: 1,2-Dichloroethane-d4	24.230		25.00		96.9	72	119				
Surr: 4-Bromofluorobenzene	24.620		25.00		98.5	76	119				
Surr: Dibromofluoromethane	25.330		25.00		101	85	115				
Surr: Toluene-d8	24.660		25.00		98.6	81	120				

Qualifiers:

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

January 23, 2012

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.: N007140

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

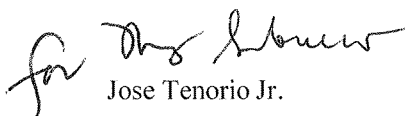
Enclosed are the results for sample(s) received on January 10, 2012 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N007140

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.

Subcontracted Analyses:

TO15 and TO3 were subcontracted to Advanced Technology Laboratories-Signal Hill, CA .

ASTM D1946 was subcontracted to ATL-Industry- City of Industry,CA.



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N007140
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N007140-001A	VINF-01-10	Air	1/10/2012 12:30:00 PM	1/10/2012	
N007140-001B	VINF-01-10	Air	1/10/2012 12:30:00 PM	1/10/2012	



CHAIN OF CUSTODY RECORD

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

DATE: 01/10/12
 PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Deffbaugh 1100 Town & Country Road Orange, CA 92868 TEL: 714-560-4802 FAX: 714-560-4604 TRIMBOARD TWE: <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 <small>SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)</small> <input type="checkbox"/> RWOQB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL / / SPECIAL INSTRUCTIONS: Report to D. Johnson/CH2M HILL, cc: KMEP Direct Bill KMEP/SPPP - Steve Deffbaugh-ref. AFE# 81195 -J* flags required/Use lowest possible detection limit - all methods.		CLIENT PROJECT NAME/NUMBER: SPPP - Norwalk Site PROJECT CONTACT: James Dye <small>SAMPLES (SIGNATURE)</small>	
LABORATORY: AT-LABS 3151 W. Post Road Las Vegas, NV 89118 TEL: 702-307-2659 FAX: 702-307-2691 E-MAIL: marlon@at-labs.com		P.O. NO.: QUOTE NO.: LAB USE ONLY:	
REQUESTED ANALYSIS			
SAMPLE ID: VINE-01710 LOCATION/DESCRIPTION: Influent Vapor (from header)		ANALYSIS: TO-15 X TO-15 (TPH-g) X ASTM-1946 (O2/Argon, CO2, CH4) X MAT-RIX: Air DATE: 01/10/12 TIME: 1230 NO. OF CONT.: 4	
REQUISITION BY (Signature): <i>[Signature]</i> REQUISITION BY (Signature): <i>[Signature]</i> REQUISITION BY (Signature): <i>[Signature]</i>		RECEIVED BY (Signature): <i>[Signature]</i> RECEIVED BY (Signature): <i>[Signature]</i> RECEIVED BY (Signature): <i>[Signature]</i>	
Date: 01/10/12 Time: 1420 Date: 01/10/12 Time: 1501		Date: 01/10/12 Time: 1501	

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: 01/10/11
 PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh		CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site		P.O. NO.:			
ADDRESS: 1100 Town & Country Road		PROJECT CONTACT: James Dye		QUOTE NO.:			
CITY: Orange, CA 92868		SAMPLER(S) (SIGNATURE):		LAB USE ONLY			
TEL: 714-560-4802		E-MAIL: james.dye@kindermorgan.com					
FAX: 714-560-4601		REQUESTED ANALYSIS					
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 / /		TO-15 X TO-3 (TPH-g) X ASTM-1946 (O2/Argon, CO2, CH4) X					
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.							
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	TIME	MAT- RIX	NO. OF CONT.	Comments
	VINF- 01710	Influent Vapor (from header)	01/10/11	1230	Air	4	Monthly sample
Relinquished by: (Signature)		Received by: (Signature)		Date: 1/11/11		Time: 1420	
Relinquished by: (Signature)		Received by: (Signature)		Date: 1/10/11		Time: 1501	
Relinquished by: (Signature)		Received by: (Signature)		Date:		Time:	

Revised: 04/27/2011

5.0°C



Advanced Technology Laboratories
 3151-3153 W Post Rd., Las Vegas, NV 89118
 www.atiglobal.com

TEL: 7023072659

FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Advanced Technology Laboratories - Signal Hill
 3283 Walnut Ave.
 Signal Hill, California

TEL: (562) 989-4045
 FAX: (562) 989-4045
 Acct #:

Field Sampler: James Dye

10-Jan-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				EPA TO15	EPA TO3
N007140-001A / VIN#-12-20	Air	1/10/2012 6:33:55 PM	BAG	1	1

VIN#-01-10

12:30

[Handwritten signature]
 1/10/12

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

Please use PO#: N007140

Please fax results by: Normal TAT

	Date/Time
Relinquished by: <i>[Signature]</i>	1/10/12
Received by:	
Relinquished by:	
Received by:	



Advanced Technology Laboratories
 3151-3153 W Post Rd., Las Vegas, NV 89118
 www.atglobal.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

10-Jan-12

Sample ID	Matrix	Date Collected	Bottle Type	ASTM D1946	Requested Tests
N007140-001B / VINE-42-20	Air	1/10/2012 5:33:55 PM	BAG	1	

VINE-01-10

12:30

Handwritten signature

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

Please use PO#: N007140

Please fax results by: Normal TAT

Relinquished by:	Date/Time	Received by:	Date/Time
<i>Handwritten signature</i>	1/10/12		



800-334-5000
Call For A Pickup!

FROM (Company)

ENVIRO TREATMENT & TECHNOLOGY*

Street Address

3275 WALNUT AVE

Suite

City

STONIA HILL

State

CA 90755

Phone Number

PLEASE PRINT IN BLOCK LETTERS with Blue / Black Ink

TO (Company) WE CANNOT DELIVER TO A P.O. BOX

ATLAS VEGAS

Street Address

3151 W POST ROAD

Suite #

City

LAS VEGAS

Phone Number

State

NV 89118

Zip Code (Required)

702-307-2659

Recipient's Name

MARION CARTIN

CINZM HILL

Account Number

B10246441253

Date

01/02/02

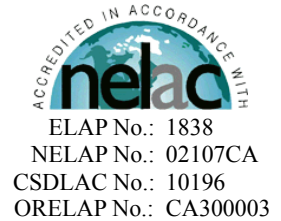


B10246441253

Service Options	Billing Information	Weight
<input type="checkbox"/> SUNRISE - BY 10:30 AM* <input checked="" type="checkbox"/> SUNRISE GOLD - BY 8:00 AM* <input type="checkbox"/> HEAVYWEIGHT** <input type="checkbox"/> Saturday Delivery - Extra Charge <input type="checkbox"/> HOLD FOR PICKUP <input checked="" type="checkbox"/> This shipment requires a delivery signature <input type="checkbox"/> Declared Value \$ (maximum \$25,000) <input type="checkbox"/> C.O.D. Amount \$, Limit \$10,000 (enter C.O.D. tag to package)	<input type="checkbox"/> Bill Shipper's Account <input checked="" type="checkbox"/> Bill Other Acct # [REDACTED] Dim weight charge if greater than actual weight L in. X W in. X H in. +225 =	8 oz. Letter or Weight lbs. (Subject to verification) 2.0
<input type="checkbox"/> Secured Payment (Money Order or Certified Check) <input type="checkbox"/> Unsecured Payment (Company Check or Personal Check)	Driver # [REDACTED] Pick-up Time 2:50 PM Shipper's Signature [Signature]	
Driver's Initials [REDACTED]	Shipper's Name [REDACTED]	

January 20, 2012

Marlon Cartin
Advanced Technology Laboratory-Las Vegas
3151 W Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659
Fax:(702) 307-2691



Re: ATL Work Order Number : 1200087
Client Reference : [none]

Enclosed are the results for sample(s) received on January 10, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 01/20/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N007140-001A / VINP-01-10	1200087-01	Air	1/10/12 12:30	1/10/12 17:27



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 01/20/2012

Client Sample ID N007140-001A / VINP-01-10

Lab ID: 1200087-01

Volatile Organic Compounds in AIR by TO-15

Analyst: BB

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,1,1-Trichloroethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,1,2,2-Tetrachloroethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,1,2-Trichloroethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,1-Dichloroethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,1-Dichloroethene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,1-Dichloropropene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,2,3-Trichloropropane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,2,4-Trichlorobenzene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,2,4-Trimethylbenzene	20	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,2-Dibromo-3-chloropropane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,2-Dibromoethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,2-Dichlorobenzene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,2-Dichloroethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,2-Dichloropropane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,3,5-Trimethylbenzene	18	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,3-Butadiene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,3-Dichlorobenzene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,4-Dichlorobenzene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
1,4-Dioxane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
2,2,4-Trimethylpentane	380	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
2-Butanone	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
2-Chloroethyl vinyl ether	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
2-Chlorotoluene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
2-Hexanone	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
2-Propanol	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
4-Chlorotoluene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
4-Ethyl Toluene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
4-Methyl-2-pentanone	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Acetone	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Acetonitrile	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Acrolein	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Acrylonitrile	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Benzene	150	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 01/20/2012

Client Sample ID N007140-001A / VINF-01-10

Lab ID: 1200087-01

Volatile Organic Compounds in AIR by TO-15

Analyst: BB

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzyl chloride	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Bromobenzene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Bromodichloromethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Bromoform	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Bromomethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Carbon disulfide	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Carbon tetrachloride	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Chlorobenzene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Chloroethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Chloroform	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Chloromethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
cis-1,2-Dichloroethene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
cis-1,3-Dichloropropene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Cyclohexane	91	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Dibromochloromethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Dibromomethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Dichlorodifluoromethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Dichlorotetrafluoroethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Ethanol	55	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Ethylbenzene	14	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Freon-113	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Hexachlorobutadiene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Isopropylbenzene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
m,p-Xylene	110	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Methylene chloride	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
MTBE	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
n-Butylbenzene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
n-Propylbenzene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Naphthalene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
o-Xylene	50	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
p-Isopropyltoluene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
sec-Butylbenzene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Styrene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
tert-Butylbenzene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Tetrachloroethene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	



Advanced Technology Laboratory-Las Vegas
3151 W Post Rd.
Las Vegas , NV 89118

Project Number : -
Report To : Marlon Cartin
Reported : 01/20/2012

Client Sample ID N007140-001A / VINP-01-10
Lab ID: 1200087-01

Volatile Organic Compounds in AIR by TO-15

Analyst: BB

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	86	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
trans-1,2-Dichloroethene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
trans-1,3-Dichloropropene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Trichloroethene	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Trichlorofluoromethane	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Vinyl acetate	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
Vinyl chloride	ND	12	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>130 %</i>		<i>70 - 130</i>		B2A0294	01/11/2012	<i>01/11/12 16:50</i>	

Gasoline Range Organics in Air by TO-3

Analyst: BB

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	11000	1000	NA	50	B2A0294	01/11/2012	01/11/12 16:50	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>101 %</i>		<i>70 - 130</i>		B2A0294	01/11/2012	<i>01/11/12 16:50</i>	



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 01/20/2012

QUALITY CONTROL SECTION

Volatile Organic Compounds in AIR by TO-15 - Quality Control

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	------------------	---------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B2A0294 - No_Prep_Air

Blank (B2A0294-BLK1)

Prepared: 1/11/2012 Analyzed: 1/11/2012

1,1,1,2-Tetrachloroethane	ND	0.25		NR
1,1,1-Trichloroethane	ND	0.25		NR
1,1,2,2-Tetrachloroethane	ND	0.25		NR
1,1,2-Trichloroethane	ND	0.25		NR
1,1-Dichloroethane	ND	0.25		NR
1,1-Dichloroethene	ND	0.25		NR
1,1-Dichloropropene	ND	0.25		NR
1,2,3-Trichloropropane	ND	0.25		NR
1,2,4-Trichlorobenzene	ND	0.25		NR
1,2,4-Trimethylbenzene	ND	0.25		NR
1,2-Dibromo-3-chloropropane	ND	0.25		NR
1,2-Dibromoethane	ND	0.25		NR
1,2-Dichlorobenzene	ND	0.25		NR
1,2-Dichloroethane	ND	0.25		NR
1,2-Dichloropropane	ND	0.25		NR
1,3,5-Trimethylbenzene	ND	0.25		NR
1,3-Butadiene	ND	0.25		NR
1,3-Dichlorobenzene	ND	0.25		NR
1,4-Dichlorobenzene	ND	0.25		NR
1,4-Dioxane	ND	0.25		NR
2,2,4-Trimethylpentane	ND	0.25		NR
2-Butanone	ND	0.25		NR
2-Chloroethyl vinyl ether	ND	0.25		NR
2-Chlorotoluene	ND	0.25		NR
2-Hexanone	ND	0.25		NR
2-Propanol	ND	0.25		NR
4-Chlorotoluene	ND	0.25		NR
4-Ethyl Toluene	ND	0.25		NR
4-Methyl-2-pentanone	ND	0.25		NR
Acetone	ND	0.25		NR
Acetonitrile	ND	0.25		NR
Acrolein	ND	0.25		NR
Acrylonitrile	ND	0.25		NR
Benzene	ND	0.25		NR
Benzyl chloride	ND	0.25		NR
Bromobenzene	ND	0.25		NR
Bromodichloromethane	ND	0.25		NR
Bromoform	ND	0.25		NR
Bromomethane	ND	0.25		NR
Carbon disulfide	ND	0.25		NR
Carbon tetrachloride	ND	0.25		NR
Chlorobenzene	ND	0.25		NR
Chloroethane	ND	0.25		NR



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 01/20/2012

Volatile Organic Compounds in AIR by TO-15 - Quality Control (cont'd)

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec % Rec	Limits	RPD	RPD Limit	Notes
---------	------------------	---------------	----------------	------------------	----------------	--------	-----	--------------	-------

Batch B2A0294 - No_Prep_Air (continued)

Blank (B2A0294-BLK1) - Continued

Prepared: 1/11/2012 Analyzed: 1/11/2012

Chloroform	ND	0.25			NR				
Chloromethane	ND	0.25			NR				
cis-1,2-Dichloroethene	ND	0.25			NR				
cis-1,3-Dichloropropene	ND	0.25			NR				
Cyclohexane	ND	0.25			NR				
Dibromochloromethane	ND	0.25			NR				
Dibromomethane	ND	0.25			NR				
Dichlorodifluoromethane	ND	0.25			NR				
Dichlorotetrafluoroethane	ND	0.25			NR				
Ethanol	ND	0.25			NR				
Ethylbenzene	ND	0.25			NR				
Freon-113	ND	0.25			NR				
Hexachlorobutadiene	ND	0.25			NR				
Isopropylbenzene	ND	0.25			NR				
m,p-Xylene	ND	0.25			NR				
Methylene chloride	ND	0.25			NR				
MTBE	ND	0.25			NR				
n-Butylbenzene	ND	0.25			NR				
n-Propylbenzene	ND	0.25			NR				
Naphthalene	ND	0.25			NR				
o-Xylene	ND	0.25			NR				
p-Isopropyltoluene	ND	0.25			NR				
sec-Butylbenzene	ND	0.25			NR				
Styrene	ND	0.25			NR				
tert-Butylbenzene	ND	0.25			NR				
Tetrachloroethene	ND	0.25			NR				
Toluene	ND	0.25			NR				
trans-1,2-Dichloroethene	ND	0.25			NR				
trans-1,3-Dichloropropene	ND	0.25			NR				
Trichloroethene	ND	0.25			NR				
Trichlorofluoromethane	ND	0.25			NR				
Vinyl acetate	ND	0.25			NR				
Vinyl chloride	ND	0.25			NR				

Surrogate: 4-Bromofluorobenzene 3.1 2.50 125 70 - 130

LCS (B2A0294-BS1)

Prepared: 1/11/2012 Analyzed: 1/11/2012

1,1-Dichloroethane	1.6	0.25	2.00		78.5	70 - 130			
Benzene	1.5	0.25	2.00		75.5	70 - 130			
Chloroform	1.6	0.25	2.00		82.5	70 - 130			
o-Xylene	1.7	0.25	2.00		87.0	70 - 130			
Tetrachloroethene	1.8	0.25	2.00		90.0	70 - 130			
Toluene	1.6	0.25	2.00		78.0	70 - 130			
Trichloroethene	1.8	0.25	2.00		90.0	70 - 130			
Vinyl chloride	1.8	0.25	2.00		91.0	70 - 130			

Surrogate: 4-Bromofluorobenzene 3.3 2.50 132 70 - 130

S8



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 01/20/2012

Volatile Organic Compounds in AIR by TO-15 - Quality Control (cont'd)

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B2A0294 - No_Prep_Air (continued)									
LCS Dup (B2A0294-BSD1)					Prepared: 1/11/2012 Analyzed: 1/11/2012				
1,1-Dichloroethane	1.6	0.25	2.00		78.5	70 - 130	0.00	20	
Benzene	1.5	0.25	2.00		75.0	70 - 130	0.664	20	
Chloroform	1.6	0.25	2.00		82.0	70 - 130	0.608	20	
o-Xylene	1.8	0.25	2.00		87.5	70 - 130	0.573	20	
Tetrachloroethene	1.8	0.25	2.00		91.0	70 - 130	1.10	20	
Toluene	1.5	0.25	2.00		75.5	70 - 130	3.26	20	
Trichloroethene	1.8	0.25	2.00		91.0	70 - 130	1.10	20	
Vinyl chloride	1.8	0.25	2.00		92.5	70 - 130	1.63	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	3.3		2.50		130	70 - 130			



Advanced Technology Laboratory-Las Vegas
 3151 W Post Rd.
 Las Vegas , NV 89118

Project Number : -
 Report To : Marlon Cartin
 Reported : 01/20/2012

Gasoline Range Organics in Air by TO-3 - Quality Control

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0294 - No_Prep_Air								
Blank (B2A0294-BLK2)				Prepared: 1/11/2012 Analyzed: 1/11/2012				
Gasoline Range Organics	ND	20			NR			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.2		2.50		90.0	70 - 130		
LCS (B2A0294-BS2)				Prepared: 1/11/2012 Analyzed: 1/11/2012				
Gasoline Range Organics	180	20	200		88.5	70 - 130		
<i>Surrogate: 4-Bromofluorobenzene</i>	2.6		2.50		103	70 - 130		
LCS Dup (B2A0294-BSD2)				Prepared: 1/11/2012 Analyzed: 1/11/2012				
Gasoline Range Organics	180	20	200		90.4	70 - 130	2.17	20
<i>Surrogate: 4-Bromofluorobenzene</i>	2.5		2.50		101	70 - 130		



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 01/20/2012

Notes and Definitions

S8 Surrogate recovery was above laboratory acceptance limit. See CAR for details.

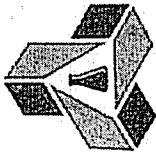
ND Analyte not detected at or above reporting limit

PQL Practical Quantitation Limit

MDL Method Detection Limit

NR Not Reported

RPD Relative Percent Difference



Advanced Technology Laboratories

3157-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Advanced Technology Laboratories - Signal Hill
3283 Walnut Ave.
Signal Hill, California

TEL: (562) 989-4045
FAX: (562) 989-4045
Acct #:

Field Sampler: James Dye

10-Jan-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				EPA TO15	EPA TO3
N007140-001A / VINP-12-29	Air	1/10/2012 6:33:55 PM	BAG	1	1

VINF-01-10

12:30

11/10/12

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

Please use PO#: N007140

Please fax results by: Normal TAT

Date/Time	Date/Time
Relinquished by:	Received by: <i>F.P. Davis</i>
Relinquished by:	Received by:
	Date/Time: <i>1/10/12</i>
	Date/Time: <i>1/10/12</i>

January 23, 2012

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



FL Cert E8784/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: N007140
Lab Number: D011102-01

Enclosed are results for sample(s) received 1/11/12 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).

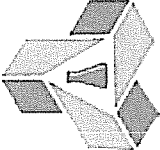
ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark Johnson'.

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

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



Advanced Technology Laboratories

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

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

ATL-Industry

TEL:
FAX:
Acct #:

Field Sampler: James Dye

D01102-01

City of Industry, CA

10-Jan-12

Sample ID	Matrix	Date Collected	Bottle Type	ASTM D1946	Requested Tests
N007140-001B VINE-12-29 VIN-01-10	Air	1/10/2012-6:33:55-PM 12:30	BAG	1	

1/10/12

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

Please use PO#: N007140

Please fax results by: Normal TAT

Relinquished by:	Date/Time	Received by:	Date/Time
	1/10/12	James Dye (VIN-01-10)	1/10/12
Relinquished by:		Received by:	

Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N007140
Date Received: 01/11/12
Matrix: Air
Reporting Units: % v/v

ASTM D1946							
Lab No.:	D011102-01						
Client Sample I.D.:	N007140-001B / VINP-01-10						
Date Sampled:	01/10/12						
Date Analyzed:	01/13/12						
QC Batch No.:	120113GC8A1						
Analyst Initials:	MJ						
Dilution Factor:	1.0						
ANALYTE	Result % v/v	RL % v/v					
Carbon Dioxide	0.66	0.010					
Oxygen/Argon	20	0.50					
Nitrogen	80	1.0					
Methane	0.010	0.0010					

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

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 1/20/12

The cover letter is an integral part of this analytical report



QC Batch No.: 120113GC8A1
 Matrix: Air
 Units: % v/v

QC for ASTM D1946

Lab No.:	Method Blank	LCS	LCSD					
Date Analyzed:	01/13/12	01/13/12	01/13/12					
Analyst Initials:	MJ	MJ	MJ					
Datafile:	13jan009	13jan006	13jan007					
Dilution Factor:	1.0	1.0	1.0					
ANALYTE	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Oxygen/Argon	0.50	ND	108	70-130%	105	70-130%	2.8	<30
Nitrogen	1.0	ND	105	70-130%	102	70-130%	2.4	<30
Methane	0.0010	ND	111	70-130%	110	70-130%	0.9	<30
Carbon Dioxide	0.010	ND	91	70-130%	90	70-130%	1.3	<30

PQL = Practical Quantitation Limit
 ND = Not Detected (Below RL).
 RL = PQL X Dilution Factor

Reviewed/Approved By: _____

[Signature]
 Mark J. Johnson
 Operations Manager

Date: _____

1/20/12

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



March 07, 2012

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.: N007361

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on February 22, 2012 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: N007361

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N007361
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N007361-001A	INF-02-21	Wastewater	2/21/2012 11:55:00 AM	2/22/2012	3/7/2012
N007361-001B	INF-02-21	Wastewater	2/21/2012 11:55:00 AM	2/22/2012	3/7/2012
N007361-001C	INF-02-21	Wastewater	2/21/2012 11:55:00 AM	2/22/2012	3/7/2012



Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 07-Mar-12

CLIENT: CH2M HILL
Lab Order: N007361
Project: SFPP - Norwalk Site
Lab ID: N007361-001

Client Sample ID: INF-02-21
Collection Date: 2/21/2012 11:55:00 AM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_120305A	QC Batch: D12VW020	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.061	1.0	µg/L	1	3/5/2012 12:57 PM
1,1,1-Trichloroethane	ND	0.068	1.0	µg/L	1	3/5/2012 12:57 PM
1,1,2,2-Tetrachloroethane	ND	0.054	1.0	µg/L	1	3/5/2012 12:57 PM
1,1,2-Trichloroethane	ND	0.083	1.0	µg/L	1	3/5/2012 12:57 PM
1,1-Dichloroethane	ND	0.099	0.50	µg/L	1	3/5/2012 12:57 PM
1,1-Dichloroethene	ND	0.094	1.0	µg/L	1	3/5/2012 12:57 PM
1,1-Dichloropropene	ND	0.082	1.0	µg/L	1	3/5/2012 12:57 PM
1,2,3-Trichlorobenzene	ND	0.10	1.0	µg/L	1	3/5/2012 12:57 PM
1,2,3-Trichloropropane	ND	0.12	1.0	µg/L	1	3/5/2012 12:57 PM
1,2,4-Trichlorobenzene	ND	0.12	1.0	µg/L	1	3/5/2012 12:57 PM
1,2,4-Trimethylbenzene	3.3	0.095	1.0	µg/L	1	3/5/2012 12:57 PM
1,2-Dibromo-3-chloropropane	ND	0.15	2.0	µg/L	1	3/5/2012 12:57 PM
1,2-Dibromoethane	ND	0.14	1.0	µg/L	1	3/5/2012 12:57 PM
1,2-Dichlorobenzene	ND	0.070	1.0	µg/L	1	3/5/2012 12:57 PM
1,2-Dichloroethane	ND	0.17	0.50	µg/L	1	3/5/2012 12:57 PM
1,2-Dichloropropane	ND	0.085	1.0	µg/L	1	3/5/2012 12:57 PM
1,3,5-Trimethylbenzene	3.2	0.087	1.0	µg/L	1	3/5/2012 12:57 PM
1,3-Dichlorobenzene	ND	0.090	1.0	µg/L	1	3/5/2012 12:57 PM
1,3-Dichloropropane	ND	0.074	1.0	µg/L	1	3/5/2012 12:57 PM
1,4-Dichlorobenzene	ND	0.092	1.0	µg/L	1	3/5/2012 12:57 PM
2,2-Dichloropropane	ND	0.061	1.0	µg/L	1	3/5/2012 12:57 PM
2-Butanone	16	1.0	10	µg/L	1	3/5/2012 12:57 PM
2-Chlorotoluene	ND	0.080	1.0	µg/L	1	3/5/2012 12:57 PM
4-Chlorotoluene	ND	0.10	1.0	µg/L	1	3/5/2012 12:57 PM
4-Isopropyltoluene	ND	0.080	1.0	µg/L	1	3/5/2012 12:57 PM
4-Methyl-2-pentanone	ND	0.76	10	µg/L	1	3/5/2012 12:57 PM
Acetone	72	1.6	10	µg/L	1	3/5/2012 12:57 PM
Acrolein	ND	4.3	20	µg/L	1	3/5/2012 12:57 PM
Acrylonitrile	ND	0.61	20	µg/L	1	3/5/2012 12:57 PM
Benzene	3400	7.5	100	µg/L	100	3/5/2012 12:18 PM
Bromobenzene	ND	0.082	1.0	µg/L	1	3/5/2012 12:57 PM
Bromochloromethane	ND	0.15	1.0	µg/L	1	3/5/2012 12:57 PM
Bromodichloromethane	ND	0.063	1.0	µg/L	1	3/5/2012 12:57 PM
Bromoform	ND	0.086	1.0	µg/L	1	3/5/2012 12:57 PM
Bromomethane	ND	0.13	1.0	µg/L	1	3/5/2012 12:57 PM
Carbon disulfide	ND	0.054	1.0	µg/L	1	3/5/2012 12:57 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: 07-Mar-12

CLIENT: CH2M HILL
Lab Order: N007361
Project: SFPP - Norwalk Site
Lab ID: N007361-001

Client Sample ID: INF-02-21
Collection Date: 2/21/2012 11:55:00 AM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_120305A	QC Batch: D12VW020	PrepDate:	Analyst: QBM			
Carbon tetrachloride	ND	0.10	1.0	µg/L	1	3/5/2012 12:57 PM
Chlorobenzene	ND	0.092	1.0	µg/L	1	3/5/2012 12:57 PM
Chloroethane	ND	0.14	1.0	µg/L	1	3/5/2012 12:57 PM
Chloroform	ND	0.058	1.0	µg/L	1	3/5/2012 12:57 PM
Chloromethane	ND	0.054	1.0	µg/L	1	3/5/2012 12:57 PM
cis-1,2-Dichloroethene	ND	0.11	1.0	µg/L	1	3/5/2012 12:57 PM
cis-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	3/5/2012 12:57 PM
Di-isopropyl ether	21	0.072	1.0	µg/L	1	3/5/2012 12:57 PM
Dibromochloromethane	ND	0.061	1.0	µg/L	1	3/5/2012 12:57 PM
Dibromomethane	ND	0.15	1.0	µg/L	1	3/5/2012 12:57 PM
Dichlorodifluoromethane	ND	0.12	1.0	µg/L	1	3/5/2012 12:57 PM
Ethyl tert-butyl ether	ND	0.070	1.0	µg/L	1	3/5/2012 12:57 PM
Ethylbenzene	19	0.051	1.0	µg/L	1	3/5/2012 12:57 PM
Freon-113	ND	0.080	1.0	µg/L	1	3/5/2012 12:57 PM
Hexachlorobutadiene	ND	0.17	1.0	µg/L	1	3/5/2012 12:57 PM
Isopropylbenzene	12	0.057	1.0	µg/L	1	3/5/2012 12:57 PM
m,p-Xylene	38	0.17	1.0	µg/L	1	3/5/2012 12:57 PM
Methylene chloride	ND	0.10	2.0	µg/L	1	3/5/2012 12:57 PM
MTBE	120	0.89	10	µg/L	10	3/5/2012 12:37 PM
n-Butylbenzene	1.7	0.082	1.0	µg/L	1	3/5/2012 12:57 PM
n-Propylbenzene	28	0.087	1.0	µg/L	1	3/5/2012 12:57 PM
Naphthalene	95	0.056	1.0	µg/L	1	3/5/2012 12:57 PM
o-Xylene	10	0.077	1.0	µg/L	1	3/5/2012 12:57 PM
sec-Butylbenzene	1.7	0.098	1.0	µg/L	1	3/5/2012 12:57 PM
Styrene	ND	0.072	1.0	µg/L	1	3/5/2012 12:57 PM
Tert-amyl methyl ether	ND	0.10	1.0	µg/L	1	3/5/2012 12:57 PM
Tert-Butanol	2200	12	50	µg/L	10	3/5/2012 12:37 PM
tert-Butylbenzene	ND	0.062	1.0	µg/L	1	3/5/2012 12:57 PM
Tetrachloroethene	ND	0.13	1.0	µg/L	1	3/5/2012 12:57 PM
Toluene	16	0.12	2.0	µg/L	1	3/5/2012 12:57 PM
trans-1,2-Dichloroethene	ND	0.094	1.0	µg/L	1	3/5/2012 12:57 PM
trans-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	3/5/2012 12:57 PM
Trichloroethene	ND	0.060	1.0	µg/L	1	3/5/2012 12:57 PM
Trichlorofluoromethane	ND	0.097	1.0	µg/L	1	3/5/2012 12:57 PM
Vinyl chloride	ND	0.12	1.0	µg/L	1	3/5/2012 12:57 PM
Xylenes, Total	48	1.5	2.0	µg/L	1	3/5/2012 12:57 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
Lab Order: N007361
Project: SFPP - Norwalk Site
Lab ID: N007361-001

Client Sample ID: INF-02-21
Collection Date: 2/21/2012 11:55:00 AM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS1_120305A	QC Batch:	D12VW020	PrepDate:	Analyst:	QBM	
Surr:	1,2-Dichloroethane-d4	85.2	0	72-119	%REC	100	3/5/2012 12:18 PM
Surr:	1,2-Dichloroethane-d4	100	0	72-119	%REC	1	3/5/2012 12:57 PM
Surr:	1,2-Dichloroethane-d4	88.9	0	72-119	%REC	10	3/5/2012 12:37 PM
Surr:	4-Bromofluorobenzene	91.4	0	76-119	%REC	1	3/5/2012 12:57 PM
Surr:	4-Bromofluorobenzene	90.3	0	76-119	%REC	100	3/5/2012 12:18 PM
Surr:	4-Bromofluorobenzene	96.5	0	76-119	%REC	10	3/5/2012 12:37 PM
Surr:	Dibromofluoromethane	87.4	0	85-115	%REC	100	3/5/2012 12:18 PM
Surr:	Dibromofluoromethane	93.0	0	85-115	%REC	1	3/5/2012 12:57 PM
Surr:	Dibromofluoromethane	92.5	0	85-115	%REC	10	3/5/2012 12:37 PM
Surr:	Toluene-d8	95.8	0	81-120	%REC	100	3/5/2012 12:18 PM
Surr:	Toluene-d8	90.4	0	81-120	%REC	10	3/5/2012 12:37 PM
Surr:	Toluene-d8	88.3	0	81-120	%REC	1	3/5/2012 12:57 PM

TPH-FUEL PRODUCT BY GC/FID

EPA 3510C

EPA 8015B

RunID:	GC1_120228A	QC Batch:	39132	PrepDate:	2/27/2012	Analyst:	MDM
TPH-Diesel (C13-C22)	1300	13	50	ug/L	1	2/28/2012 01:46 PM	
TPH-Fuel Product	ND	13	50	ug/L	1	2/28/2012 01:46 PM	
TPH-Oil (C23-C36)	480	9.6	50	ug/L	1	2/28/2012 01:46 PM	
Surr: Octacosane	98.2	0	26-152	%REC	1	2/28/2012 01:46 PM	
Surr: p-Terphenyl	92.9	0	57-132	%REC	1	2/28/2012 01:46 PM	

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID:	GC4_120229A	QC Batch:	E12VW009	PrepDate:	Analyst:	MCS
TPH-Gasoline (C4-C12)	4900	6.0	100	µg/L	1	2/29/2012
Surr: Chlorobenzene - d5	88.5	0	74-138	%REC	1	2/29/2012

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



CLIENT: CH2M HILL

Work Order: N007361

Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-39132	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 2/27/2012	RunNo: 83391						
Client ID: PBW	Batch ID: 39132	TestNo: EPA 8015B	EPA 3510C	Analysis Date: 2/28/2012	SeqNo: 1366612						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	50									
TPH-Fuel Product	ND	50									
TPH-Oil (C23-C36)	30.700	50									
Surr: Octacosane	83.378		80.00		104	26	152				J
Surr: p-Terphenyl	79.642		80.00		99.6	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: N007361
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GSFPP

Sample ID: E120229LCS	SampType: LCS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 83409						
Client ID: LCSW	Batch ID: E12VW009	TestNo: EPA 8015B		Analysis Date: 2/29/2012	SeqNo: 1367416						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	817.000	100	1000	0	81.7	67	136				
Surr: Chlorobenzene - d5	46.974		50.00		93.9	74	138				

Sample ID: E120229MB1	SampType: MBLK	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 83409						
Client ID: PBW	Batch ID: E12VW009	TestNo: EPA 8015B		Analysis Date: 2/29/2012	SeqNo: 1367417						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	100				74	138				
Surr: Chlorobenzene - d5	50.828		50.00		102						

Sample ID: N007361-001AMS	SampType: MS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 83409						
Client ID: ZZZZZ	Batch ID: E12VW009	TestNo: EPA 8015B		Analysis Date: 2/29/2012	SeqNo: 1367418						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	5920.000	100	1000	4919	100	67	136				
Surr: Chlorobenzene - d5	46.356		50.00		92.7	74	138				

Sample ID: N007361-001AMSD	SampType: MSD	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 83409						
Client ID: ZZZZZ	Batch ID: E12VW009	TestNo: EPA 8015B		Analysis Date: 2/29/2012	SeqNo: 1367419						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	5965.000	100	1000	4919	105	67	136	5920	0.757	30	
Surr: Chlorobenzene - d5	44.617		50.00		89.2	74	138		0	0	

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: N007361
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D120305LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 83472						
Client ID: LCSW	Batch ID: D12VW020	TestNo: EPA 8260B		Analysis Date: 3/5/2012	SeqNo: 1369371						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	21.520	1.0	20.00	0	108	81	129				
1,1,1-Trichloroethane	21.090	1.0	20.00	0	105	67	132				
1,1,2,2-Tetrachloroethane	19.510	1.0	20.00	0	97.6	63	128				
1,1,2-Trichloroethane	19.460	1.0	20.00	0	97.3	75	125				
1,1-Dichloroethane	18.820	0.50	20.00	0	94.1	69	133				
1,1-Dichloroethene	19.190	1.0	20.00	0	96.0	68	130				
1,1-Dichloropropene	19.900	1.0	20.00	0	99.5	73	132				
1,2,3-Trichlorobenzene	19.020	1.0	20.00	0	95.1	67	137				
1,2,3-Trichloropropane	18.310	1.0	20.00	0	91.6	73	124				
1,2,4-Trichlorobenzene	19.190	1.0	20.00	0	96.0	66	134				
1,2,4-Trimethylbenzene	18.410	1.0	20.00	0	92.0	74	132				
1,2-Dibromo-3-chloropropane	17.990	2.0	20.00	0	90.0	50	132				
1,2-Dibromoethane	20.490	1.0	20.00	0	102	80	121				
1,2-Dichlorobenzene	18.490	1.0	20.00	0	92.5	71	122				
1,2-Dichloroethane	19.970	0.50	20.00	0	99.8	69	132				
1,2-Dichloropropane	19.760	1.0	20.00	0	98.8	75	125				
1,3,5-Trimethylbenzene	18.410	1.0	20.00	0	92.0	74	131				
1,3-Dichlorobenzene	18.520	1.0	20.00	0	92.6	75	124				
1,3-Dichloropropane	19.360	1.0	20.00	0	96.8	73	126				
1,4-Dichlorobenzene	18.330	1.0	20.00	0	91.7	74	123				
2,2-Dichloropropane	20.530	1.0	20.00	0	103	69	137				
2-Butanone	196.860	10	200.0	0	98.4	49	136				
2-Chlorotoluene	18.340	1.0	20.00	0	91.7	73	126				
4-Chlorotoluene	18.320	1.0	20.00	0	91.6	74	128				
4-Isopropyltoluene	18.360	1.0	20.00	0	91.8	73	130				
4-Methyl-2-pentanone	193.850	10	200.0	0	96.9	58	134				
Acetone	205.770	10	200.0	0	103	40	135				
Acrolein	180.680	20	200.0	0	90.3	75	125				
Acrylonitrile	179.810	20	200.0	0	89.9	75	125				
Benzene	19.160	1.0	20.00	0	95.8	81	122				

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: N007361
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D120305LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 83472						
Client ID: LCSW	Batch ID: D12VW020	TestNo: EPA 8260B		Analysis Date: 3/5/2012	SeqNo: 1369371						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromobenzene	18.580	1.0	20.00	0	92.9	76	124				
Bromochloromethane	18.990	1.0	20.00	0	95.0	65	129				
Bromodichloromethane	22.060	1.0	20.00	0	110	76	121				
Bromoform	18.020	1.0	20.00	0	90.1	69	128				
Bromomethane	18.610	1.0	20.00	0	93.0	53	141				
Carbon disulfide	19.210	1.0	20.00	0	96.0	75	125				
Carbon tetrachloride	20.490	1.0	20.00	0	102	66	138				
Chlorobenzene	19.070	1.0	20.00	0	95.4	81	122				
Chloroethane	19.080	1.0	20.00	0	95.4	58	133				
Chloroform	19.600	1.0	20.00	0	98.0	69	128				
Chloromethane	18.740	1.0	20.00	0	93.7	56	131				
cis-1,2-Dichloroethene	19.360	1.0	20.00	0	96.8	72	126				
cis-1,3-Dichloropropene	20.140	1.0	20.00	0	101	69	131				
Di-isopropyl ether	18.690	1.0	20.00	0	93.5	70	130				
Dibromochloromethane	17.700	1.0	20.00	0	88.5	66	133				
Dibromomethane	20.450	1.0	20.00	0	102	76	125				
Dichlorodifluoromethane	19.530	1.0	20.00	0	97.6	53	153				
Ethyl tert-butyl ether	19.010	1.0	20.00	0	95.1	70	130				
Ethylbenzene	18.630	1.0	20.00	0	93.2	73	127				
Freon-113	20.580	1.0	20.00	0	103	75	125				
Hexachlorobutadiene	18.680	1.0	20.00	0	93.4	67	131				
Isopropylbenzene	18.340	1.0	20.00	0	91.7	75	127				
m,p-Xylene	37.580	1.0	40.00	0	94.0	76	128				
Methylene chloride	18.580	2.0	20.00	0	92.9	63	137				
MTBE	19.620	1.0	20.00	0	98.1	65	123				
n-Butylbenzene	18.590	1.0	20.00	0	93.0	69	137				
n-Propylbenzene	18.510	1.0	20.00	0	92.6	72	129				
Naphthalene	18.240	1.0	20.00	0	91.2	54	138				
o-Xylene	19.000	1.0	20.00	0	95.0	80	121				
sec-Butylbenzene	18.530	1.0	20.00	0	92.6	72	127				

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: N007361
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D120305LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 83472						
Client ID: LCSW	Batch ID: D12VW020	TestNo: EPA 8260B		Analysis Date: 3/5/2012	SeqNo: 1369371						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Styrene	19.220	1.0	20.00	0	96.1	65	134				
Tert-amyl methyl ether	18.500	1.0	20.00	0	92.5	70	130				
Tert-Butanol	99.800	5.0	100.0	0	99.8	70	130				
tert-Butylbenzene	18.390	1.0	20.00	0	92.0	70	129				
Tetrachloroethene	19.450	1.0	20.00	0	97.3	66	128				
Toluene	18.720	2.0	20.00	0	93.6	77	122				
trans-1,2-Dichloroethene	19.650	1.0	20.00	0	98.2	63	137				
trans-1,3-Dichloropropene	20.640	1.0	20.00	0	103	59	135				
Trichloroethene	19.620	1.0	20.00	0	98.1	70	127				
Trichlorofluoromethane	19.700	1.0	20.00	0	98.5	57	129				
Vinyl chloride	18.800	1.0	20.00	0	94.0	50	134				
Xylenes, Total	56.580	2.0	60.00	0	94.3	75	125				
Surr: 1,2-Dichloroethane-d4	24.330		25.00		97.3	72	119				
Surr: 4-Bromofluorobenzene	23.560		25.00		94.2	76	119				
Surr: Dibromofluoromethane	24.570		25.00		98.3	85	115				
Surr: Toluene-d8	23.450		25.00		93.8	81	120				

Sample ID: N007372-022AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 83472						
Client ID: ZZZZZZ	Batch ID: D12VW020	TestNo: EPA 8260B		Analysis Date: 3/5/2012	SeqNo: 1369372						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	10680.000	500	10000	0	107	81	129				
1,1,1-Trichloroethane	10030.000	500	10000	0	100	67	132				
1,1,2,2-Tetrachloroethane	10145.000	500	10000	0	101	63	128				
1,1,2-Trichloroethane	9555.000	500	10000	0	95.6	75	125				
1,1-Dichloroethane	9110.000	250	10000	0	91.1	69	133				
1,1-Dichloroethene	9445.000	500	10000	0	94.4	68	130				
1,1-Dichloropropene	9775.000	500	10000	0	97.8	73	132				
1,2,3-Trichlorobenzene	9425.000	500	10000	0	94.2	67	137				
1,2,3-Trichloropropane	9310.000	500	10000	0	93.1	73	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

CLIENT: CH2M HILL
Work Order: N007361
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N007372-022AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	RunNo: 83472
Client ID: ZZZZZ	Batch ID: D12VW020	TestNo: EPA 8260B		SeqNo: 1369372
		Prep Date:		
		Analysis Date: 3/5/2012		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9590.000	500	10000	0	95.9	66	134				
1,2,4-Trimethylbenzene	11810.000	500	10000	2260	95.5	74	132				
1,2-Dibromo-3-chloropropane	9310.000	1000	10000	0	93.1	50	132				
1,2-Dibromoethane	10205.000	500	10000	0	102	80	121				
1,2-Dichlorobenzene	9275.000	500	10000	0	92.8	71	122				
1,2-Dichloroethane	9630.000	250	10000	0	96.3	69	132				
1,2-Dichloropropane	9360.000	500	10000	0	93.6	75	125				
1,3,5-Trimethylbenzene	10055.000	500	10000	625.0	94.3	74	131				
1,3-Dichlorobenzene	9385.000	500	10000	0	93.8	75	124				
1,3-Dichloropropane	9350.000	500	10000	0	93.5	73	126				
1,4-Dichlorobenzene	9300.000	500	10000	0	93.0	74	123				
2,2-Dichloropropane	9890.000	500	10000	0	98.9	69	137				
2-Butanone	69270.000	5000	100000	0	69.3	49	136				
2-Chlorotoluene	9365.000	500	10000	0	93.6	73	126				
4-Chlorotoluene	9375.000	500	10000	0	93.8	74	128				
4-Isopropyltoluene	9420.000	500	10000	0	94.2	73	130				
4-Methyl-2-pentanone	91775.000	5000	100000	0	91.8	58	134				
Acetone	61225.000	5000	100000	0	61.2	40	135				
Acrolein	95710.000	10000	100000	0	95.7	75	125				
Acrylonitrile	98960.000	10000	100000	0	99.0	75	125				
Benzene	20130.000	500	10000	10390	97.4	81	122				
Bromobenzene	9360.000	500	10000	0	93.6	76	124				
Bromochloromethane	9180.000	500	10000	0	91.8	65	129				
Bromodichloromethane	10765.000	500	10000	0	108	76	121				
Bromoform	9055.000	500	10000	0	90.6	69	128				
Bromomethane	8940.000	500	10000	0	89.4	53	141				
Carbon disulfide	9370.000	500	10000	0	93.7	75	125				
Carbon tetrachloride	10025.000	500	10000	0	100	66	138				
Chlorobenzene	9535.000	500	10000	0	95.4	81	122				
Chloroethane	9390.000	500	10000	0	93.9	58	133				

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: N007361
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N007372-022AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZ	Batch ID: D12VW020	TestNo: EPA 8260B	
Prep Date:		RunNo: 83472	
Analysis Date: 3/5/2012		SeqNo: 1369372	

Analyte	Result	PQL	SPK value	SPK Ref Val	Units	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	9355.000	500	10000	0	µg/L	93.6	69	128				
Chloromethane	9365.000	500	10000	0	µg/L	93.6	56	131				
cis-1,2-Dichloroethene	9595.000	500	10000	0	µg/L	96.0	72	126				
cis-1,3-Dichloropropene	9795.000	500	10000	0	µg/L	98.0	69	131				
Di-isopropyl ether	8870.000	500	10000	0	µg/L	88.7	70	130				
Dibromochloromethane	8565.000	500	10000	0	µg/L	85.6	66	133				
Dibromomethane	10125.000	500	10000	0	µg/L	101	76	125				
Dichlorodifluoromethane	9775.000	500	10000	0	µg/L	97.8	53	153				
Ethyl tert-butyl ether	9095.000	500	10000	0	µg/L	91.0	70	130				
Ethylbenzene	12320.000	500	10000	3030	µg/L	92.9	73	127				
Freon-113	9955.000	500	10000	0	µg/L	99.6	75	125				
Hexachlorobutadiene	9375.000	500	10000	0	µg/L	93.8	67	131				
Isopropylbenzene	9410.000	500	10000	0	µg/L	94.1	75	127				
m,p-Xylene	27290.000	500	20000	8620	µg/L	93.4	76	128				
Methylene chloride	8745.000	1000	10000	0	µg/L	87.4	63	137				
MTBE	9380.000	500	10000	0	µg/L	93.8	65	123				
n-Butylbenzene	9650.000	500	10000	0	µg/L	96.5	69	137				
n-Propylbenzene	9720.000	500	10000	300.0	µg/L	94.2	72	129				
Naphthalene	10045.000	500	10000	765.0	µg/L	92.8	54	138				
o-Xylene	13595.000	500	10000	4175	µg/L	94.2	80	121				
sec-Butylbenzene	9405.000	500	10000	0	µg/L	94.0	72	127				
Styrene	9530.000	500	10000	0	µg/L	95.3	65	134				
Tert-amyl methyl ether	9040.000	500	10000	0	µg/L	90.4	70	130				
Tert-Butanol	52670.000	2500	50000	0	µg/L	105	70	130				
tert-Butylbenzene	9360.000	500	10000	0	µg/L	93.6	70	129				
Tetrachloroethene	9655.000	500	10000	0	µg/L	96.6	66	128				
Toluene	26875.000	1000	10000	18380	µg/L	85.0	77	122				
trans-1,2-Dichloroethene	9640.000	500	10000	0	µg/L	96.4	63	137				
trans-1,3-Dichloropropene	10075.000	500	10000	0	µg/L	101	59	135				
Trichloroethene	9420.000	500	10000	0	µg/L	94.2	70	127				

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

ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N007361
Project: SFPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: N007372-022AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZ	Batch ID: D12VW020	TestNo: EPA 8260B	Prep Date:
RunNo: 83472		SeqNo: 1369372	
Analysis Date: 3/5/2012			

Analyte	Result	PQL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	9460.000	500	10000	0		94.6	57	129				
Vinyl chloride	9505.000	500	10000	0		95.0	50	134				
Xylenes, Total	40885.000	1000	30000	12800		93.6	75	125				
Surr: 1,2-Dichloroethane-d4	12225.000		12500			97.8	72	119				
Surr: 4-Bromofluorobenzene	12255.000		12500			98.0	76	119				
Surr: Dibromofluoromethane	12105.000		12500			96.8	85	115				
Surr: Toluene-d8	12065.000		12500			96.5	81	120				

Sample ID: N007372-022AMS	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZ	Batch ID: D12VW020	TestNo: EPA 8260B	Prep Date:
RunNo: 83472		SeqNo: 1369373	
Analysis Date: 3/5/2012			

Analyte	Result	PQL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	10675.000	500	10000	0		107	81	129	10680	0.0468	20	
1,1,1-Trichloroethane	10570.000	500	10000	0		106	67	132	10030	5.24	20	
1,1,2,2-Tetrachloroethane	10390.000	500	10000	0		104	63	128	10140	2.39	20	
1,1,2-Trichloroethane	9670.000	500	10000	0		96.7	75	125	9555	1.20	20	
1,1-Dichloroethane	9450.000	250	10000	0		94.5	69	133	9110	3.66	20	
1,1-Dichloroethene	9545.000	500	10000	0		95.4	68	130	9445	1.05	20	
1,1-Dichloropropene	9790.000	500	10000	0		97.9	73	132	9775	0.153	20	
1,2,3-Trichlorobenzene	9900.000	500	10000	0		99.0	67	137	9425	4.92	20	
1,2,3-Trichloropropane	9155.000	500	10000	0		91.6	73	124	9310	1.68	20	
1,2,4-Trichlorobenzene	9925.000	500	10000	0		99.2	66	134	9590	3.43	20	
1,2,4-Trimethylbenzene	11965.000	500	10000	2260		97.0	74	132	11810	1.30	20	
1,2-Dibromo-3-chloropropane	9520.000	1000	10000	0		95.2	50	132	9310	2.23	20	
1,2-Dibromoethane	10235.000	500	10000	0		102	80	121	10200	0.294	20	
1,2-Dichlorobenzene	9425.000	500	10000	0		94.2	71	122	9275	1.60	20	
1,2-Dichloroethane	9875.000	250	10000	0		98.8	69	132	9630	2.51	20	
1,2-Dichloropropane	9750.000	500	10000	0		97.5	75	125	9360	4.08	20	
1,3,5-Trimethylbenzene	10235.000	500	10000	625.0		96.1	74	131	10060	1.77	20	
1,3-Dichlorobenzene	9510.000	500	10000	0		95.1	75	124	9385	1.32	20	

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N007361
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N007372-022AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZ	Batch ID: D12VW020	TestNo: EPA 8260B	Prep Date:
		Analysis Date: 3/5/2012	RunNo: 83472
			SeqNo: 1369373

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	9705.000	500	10000	0	97.0	73	126	9350	3.73	20	
1,4-Dichlorobenzene	9430.000	500	10000	0	94.3	74	123	9300	1.39	20	
2,2-Dichloropropane	10275.000	500	10000	0	103	69	137	9890	3.82	20	
2-Butanone	68255.000	5000	100000	0	68.3	49	136	69270	1.48	20	
2-Chlorotoluene	9475.000	500	10000	0	94.8	73	126	9365	1.17	20	
4-Chlorotoluene	9350.000	500	10000	0	93.5	74	128	9375	0.267	20	
4-Isopropyltoluene	9600.000	500	10000	0	96.0	73	130	9420	1.89	20	
4-Methyl-2-pentanone	90900.000	5000	100000	0	90.9	58	134	91780	0.958	20	
Acetone	58700.000	5000	100000	0	58.7	40	135	61220	4.21	20	
Acrolein	95305.000	10000	100000	0	95.3	75	125	95710	0.424	20	
Acrylonitrile	93565.000	10000	100000	0	93.6	75	125	98960	5.60	20	
Benzene	20215.000	500	10000	10390	98.2	81	122	20130	0.421	20	
Bromobenzene	9465.000	500	10000	0	94.6	76	124	9360	1.12	20	
Bromochloromethane	9525.000	500	10000	0	95.2	65	129	9180	3.69	20	
Bromodichloromethane	11020.000	500	10000	0	110	76	121	10760	2.34	20	
Bromoform	9170.000	500	10000	0	91.7	69	128	9055	1.26	20	
Bromomethane	9050.000	500	10000	0	90.5	53	141	8940	1.22	20	
Carbon disulfide	9785.000	500	10000	0	97.9	75	125	9370	4.33	20	
Carbon tetrachloride	10310.000	500	10000	0	103	66	138	10020	2.80	20	
Chlorobenzene	9625.000	500	10000	0	96.2	81	122	9535	0.939	20	
Chloroethane	9540.000	500	10000	0	95.4	58	133	9390	1.58	20	
Chloroform	9735.000	500	10000	0	97.4	69	128	9355	3.98	20	
Chloromethane	9375.000	500	10000	0	93.8	56	131	9365	0.107	20	
cis-1,2-Dichloroethene	9830.000	500	10000	0	98.3	72	126	9595	2.42	20	
cis-1,3-Dichloropropene	9980.000	500	10000	0	99.8	69	131	9795	1.87	20	
Di-isopropyl ether	9165.000	500	10000	0	91.7	70	130	8870	3.27	20	
Dibromochloromethane	8920.000	500	10000	0	89.2	66	133	8565	4.06	20	
Dibromomethane	10155.000	500	10000	0	102	76	125	10120	0.296	20	
Dichlorodifluoromethane	9725.000	500	10000	0	97.2	53	153	9775	0.513	20	
Ethyl tert-butyl ether	9415.000	500	10000	0	94.2	70	130	9095	3.46	20	

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N007361
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N007372-022AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 83472						
Client ID: ZZZZZZ	Batch ID: D12VW020	TestNo: EPA 8260B		Analysis Date: 3/5/2012	SeqNo: 1369373						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethylbenzene	12380.000	500	10000	3030	93.5	73	127	12320	0.486	20	
Freon-113	10200.000	500	10000	0	102	75	125	9955	2.43	20	
Hexachlorobutadiene	9825.000	500	10000	0	98.2	67	131	9375	4.69	20	
Isopropylbenzene	9605.000	500	10000	0	96.0	75	127	9410	2.05	20	
m,p-Xylene	27205.000	500	20000	8620	92.9	76	128	27290	0.312	20	
Methylene chloride	9105.000	1000	10000	0	91.0	63	137	8745	4.03	20	
MTBE	9855.000	500	10000	0	98.6	65	123	9380	4.94	20	
n-Butylbenzene	9845.000	500	10000	0	98.4	69	137	9650	2.00	20	
n-Propylbenzene	9885.000	500	10000	300.0	95.9	72	129	9720	1.68	20	
Naphthalene	10350.000	500	10000	765.0	95.9	54	138	10040	2.99	20	
o-Xylene	13625.000	500	10000	4175	94.5	80	121	13600	0.220	20	
sec-Butylbenzene	9540.000	500	10000	0	95.4	72	127	9405	1.43	20	
Styrene	9555.000	500	10000	0	95.6	65	134	9530	0.262	20	
Tert-amyl methyl ether	9140.000	500	10000	0	91.4	70	130	9040	1.10	20	
Tert-Butanol	50515.000	2500	50000	0	101	70	130	52670	4.18	20	
tert-Butylbenzene	9450.000	500	10000	0	94.5	70	129	9360	0.957	20	
Tetrachloroethene	9985.000	500	10000	0	99.9	66	128	9655	3.36	20	
Toluene	26745.000	1000	10000	18380	83.7	77	122	26880	0.485	20	
trans-1,2-Dichloroethene	10085.000	500	10000	0	101	63	137	9640	4.51	20	
trans-1,3-Dichloropropene	10110.000	500	10000	0	101	59	135	10080	0.347	20	
Trichloroethene	9610.000	500	10000	0	96.1	70	127	9420	2.00	20	
Trichlorofluoromethane	9725.000	500	10000	0	97.2	57	129	9460	2.76	20	
Vinyl chloride	9555.000	500	10000	0	95.6	50	134	9505	0.525	20	
Xylenes, Total	40830.000	1000	30000	12800	93.4	75	125	40880	0.135	20	
Surr: 1,2-Dichloroethane-d4	12270.000		12500		98.2	72	119		0		
Surr: 4-Bromofluorobenzene	12025.000		12500		96.2	76	119		0		
Surr: Dibromofluoromethane	12405.000		12500		99.2	85	115		0		
Surr: Toluene-d8	11675.000		12500		93.4	81	120		0		

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: N007361
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D120305MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 83472						
Client ID: PBW	Batch ID: D12VW020	TestNo: EPA 8260B		Analysis Date: 3/5/2012	SeqNo: 1369374						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
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									

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N007361
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D120305MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 83472						
Client ID: PBW	Batch ID: D12VW020	TestNo: EPA 8260B		Analysis Date: 3/5/2012	SeqNo: 1369374						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	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									

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N007361
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D120305MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	RunNo: 83472
Client ID: PBW	Batch ID: D12VW020	TestNo: EPA 8260B		SeqNo: 1369374
Analyte	Result	PQL	SPK value	SPK Ref Val
			%REC	LowLimit
				HighLimit
				RPD Ref Val
				%RPD
				RPDLimit
				Qual

Prep Date:
 Analysis Date: 3/5/2012

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	20.240		25.00		81.0	72			119		
Surr: 4-Bromofluorobenzene	22.780		25.00		91.1	76			119		
Surr: Dibromofluoromethane	21.420		25.00		85.7	85			115		
Surr: Toluene-d8	24.530		25.00		98.1	81			120		


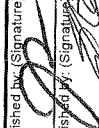





Qualifiers:

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

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: 2/21/12
 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 - Nonwalk 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"/>		REQUESTED ANALYSIS								
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		NO. OF CONT.	MATERIAL	DATE	TIME	ANALYSIS	REMARKS
			DATE	TIME						
	INF-02-21	Influent	2/21/12	11:55	8	WW			TPH - g (8015M) X	Comments N0073G1-1
									TPH-fp (8015M) X	
									VOCs + Oxygenates (8260B) X	
Relinquished by: (Signature) 		Received by: (Signature) 		Date: 2/21/12		Time: 1414				
Relinquished by: (Signature) 		Received by: (Signature) 		Date: 2/21/12		Time: 1440				
Relinquished by: (Signature) 		Received by: (Signature) 		Date: 2/22/12		Time: 0900				

2.7°C ICE 1042

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: 2/22/2012 Workorder: N007361
 Rep sample Temp (Deg C): 2.7 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: OnTrac
 Last 4 digits of Tracking No.: 9115 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

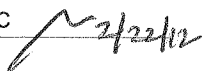
Sample Receipt Checklist

- | | | | |
|---|---|--|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input type="checkbox"/> | No <input checked="" 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: No relinquished date and time but with received date and time

Checklist Completed B

MBC



Reviewed By:





800-334-5000
Call For A Pickup!

Account Number **B10241809115**

Date **MM D P M Y 10 24 11**



B10241809115

FROM (Company) ENVIRO TREATMENT & TECHNOLOGY*

Street Address 3275 WALNUT AVE Suite

City SIGNAL HILL

State CA Zip Code (Required) 90755 Phone Number 562-989-4045

PLEASE PRINT IN BLOCK LETTERS with Blue / Black Ink

TO (Company) WE CANNOT DELIVER TO A P.O. BOX

Street Address ATL - LAS VEGAS

City LAS VEGAS

State NV Zip Code (Required) 702-307-2659 Phone Number

Recipient's Name MARLON CARTIN

Shipper's Ref. # CH2M HILL

Service Options *If no box is checked, Surette Service will be applied. **Minimum charge weight is 300 lbs. - Delivery by 5:00 P.M. Note: delivery times for all services may be later in some areas. Check service guide or visit our website for details.	Billing Information If none is selected, shipper will be invoiced.	Weight
<input checked="" type="checkbox"/> SUNRISE - BY 10:30 AM* <input type="checkbox"/> SUNRISE GOLD - BY 8:00 AM** <input type="checkbox"/> HEAVYWEIGHT** <input type="checkbox"/> Saturday Delivery - Extra Charge (see Service Guide for details) <input type="checkbox"/> HOLD FOR PICKUP <input checked="" type="checkbox"/> This shipment requires a delivery signature <input type="checkbox"/> Declared Value \$ (maximum \$25,000)	<input type="checkbox"/> Bill Shipper's Account <input checked="" type="checkbox"/> Bill Other Acct #	<input type="checkbox"/> 8 oz. Letter or Weight lbs. (Subject to verification)
<input type="checkbox"/> C.O.D. Amount \$ Limit \$10,000 (fill C.O.D. tag to package) <input type="checkbox"/> Secured Payment (Money Order or Certified Check) <input type="checkbox"/> Unsecured Payment (Company Check or Personal Check)	Dim weight charge if greater than actual weight L in. X W in. X H in. +225 =	

Driver # _____ Pick-up Time _____ Shipper's Signature _____

Driver's Initials _____ Shipper's Name _____

F B A S I

Advanced Technology Laboratories, Inc.

WORK ORDER Summary

22-Feb-12

WorkOrder: N007361

Client ID: CH2M HILL-OAKLAND

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 2/22/2012

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

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hid	MS	Sub	Storage
N007361-001A	INF-02-21	2/21/2012 11:55:00 AM	2/28/2012	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N007361-001B			2/28/2012		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N007361-001C			2/28/2012		EPA 8015B	TPH-Fuel Product BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N007361-002A	FOLDER		2/28/2012		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
			2/28/2012		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

March 09, 2012

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.: N007397

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on February 28, 2012 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

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)

CHAIN OF CUSTODY RECORD

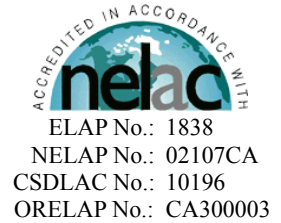
DATE: 2/28/12

PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Dertbaugh				CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site												
ADDRESS: 1100 Town & Country Road				P.O. NO.:												
CITY: Orange, CA 92868				QUOTE NO.:												
TEL: 714-560-4802	FAX: 714-560-4601	E-MAIL: James.dye@kindermorgan.com		LAB USE ONLY: <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				REQUESTED ANALYSIS												
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 Dertbaugh-ref: AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.																
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MAT- RIX	NO. OF CONT.	Comments									
			DATE	TIME												
	VNF-02-28	Influent Vapor (from header)	2/28/12	1500	Air	4										
Reinquired by: (Signature) <i>[Signature]</i>				Received by: (Signature) <i>[Signature]</i>				Date: 2/28/12	Time: 1445							
Reinquired by: (Signature) <i>[Signature]</i>				Received by: (Signature) <i>[Signature]</i>				Date:	Time:							
Reinquired by: (Signature) <i>[Signature]</i>				Received by: (Signature) <i>[Signature]</i>				Date:	Time:							

March 09, 2012

Marlon Cartin
Advanced Technology Laboratory-Las Vegas
3151 W Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659
Fax:(702) 307-2691



Re: ATL Work Order Number : 1200736
Client Reference : [none]

Enclosed are the results for sample(s) received on February 29, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/09/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N007397-001A / VINP-02-28	1200736-01	Air	2/28/12 13:00	2/28/12 12:42



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/09/2012

Client Sample ID N007397-001A / VINP-02-28

Lab ID: 1200736-01

Volatile Organic Compounds in AIR by TO-15

Analyst: BB

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,1,1-Trichloroethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,1,2,2-Tetrachloroethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,1,2-Trichloroethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,1-Dichloroethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,1-Dichloroethene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,1-Dichloropropene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,2,3-Trichloropropane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,2,4-Trichlorobenzene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,2,4-Trimethylbenzene	34	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,2-Dibromo-3-chloropropane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,2-Dibromoethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,2-Dichlorobenzene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,2-Dichloroethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,2-Dichloropropane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,3,5-Trimethylbenzene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,3-Butadiene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,3-Dichlorobenzene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,4-Dichlorobenzene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
1,4-Dioxane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
2,2,4-Trimethylpentane	340	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
2-Butanone	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
2-Chloroethyl vinyl ether	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
2-Chlorotoluene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
2-Hexanone	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
2-Propanol	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
4-Chlorotoluene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
4-Ethyl Toluene	26	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
4-Methyl-2-pentanone	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Acetone	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Acetonitrile	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Acrolein	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Acrylonitrile	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Benzene	140	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/09/2012

Client Sample ID N007397-001A / VINP-02-28

Lab ID: 1200736-01

Volatile Organic Compounds in AIR by TO-15

Analyst: BB

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzyl chloride	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Bromobenzene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Bromodichloromethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Bromoform	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Bromomethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Carbon disulfide	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Carbon tetrachloride	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Chlorobenzene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Chloroethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Chloroform	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Chloromethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
cis-1,2-Dichloroethene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
cis-1,3-Dichloropropene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Cyclohexane	130	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Dibromochloromethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Dibromomethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Dichlorodifluoromethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Dichlorotetrafluoroethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Ethanol	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Ethylbenzene	42	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Freon-113	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Hexachlorobutadiene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Isopropylbenzene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
m,p-Xylene	160	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Methylene chloride	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
MTBE	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
n-Butylbenzene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
n-Propylbenzene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Naphthalene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
o-Xylene	64	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
p-Isopropyltoluene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
sec-Butylbenzene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Styrene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
tert-Butylbenzene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	



Advanced Technology Laboratory-Las Vegas
3151 W Post Rd.
Las Vegas , NV 89118

Project Number : -
Report To : Marlon Cartin
Reported : 03/09/2012

Client Sample ID N007397-001A / VINP-02-28
Lab ID: 1200736-01

Volatile Organic Compounds in AIR by TO-15

Analyst: BB

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Tetrachloroethene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Toluene	140	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
trans-1,2-Dichloroethene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
trans-1,3-Dichloropropene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Trichloroethene	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Trichlorofluoromethane	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Vinyl acetate	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
Vinyl chloride	ND	25	NA	100	B2B0799	03/01/2012	03/01/12 20:07	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>122 %</i>		<i>70 - 130</i>		B2B0799	03/01/2012	<i>03/01/12 20:07</i>	

Gasoline Range Organics in Air by TO-3

Analyst: BB

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	27000	4000	NA	200	B2B0809	02/29/2012	02/29/12 19:34	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>90.8 %</i>		<i>70 - 130</i>		B2B0809	02/29/2012	<i>02/29/12 19:34</i>	



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/09/2012

QUALITY CONTROL SECTION

Volatile Organic Compounds in AIR by TO-15 - Quality Control

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
---------	------------------	---------------	----------------	------------------	----------------	-----------------	------------	--------------	-------

Batch B2B0799 - No_Prep_Air

Blank (B2B0799-BLK1)

Prepared: 3/1/2012 Analyzed: 3/1/2012

1,1,1,2-Tetrachloroethane	ND	0.25			NR				
1,1,1-Trichloroethane	ND	0.25			NR				
1,1,2,2-Tetrachloroethane	ND	0.25			NR				
1,1,2-Trichloroethane	ND	0.25			NR				
1,1-Dichloroethane	ND	0.25			NR				
1,1-Dichloroethene	ND	0.25			NR				
1,1-Dichloropropene	ND	0.25			NR				
1,2,3-Trichloropropane	ND	0.25			NR				
1,2,4-Trichlorobenzene	ND	0.25			NR				
1,2,4-Trimethylbenzene	ND	0.25			NR				
1,2-Dibromo-3-chloropropane	ND	0.25			NR				
1,2-Dibromoethane	ND	0.25			NR				
1,2-Dichlorobenzene	ND	0.25			NR				
1,2-Dichloroethane	ND	0.25			NR				
1,2-Dichloropropane	ND	0.25			NR				
1,3,5-Trimethylbenzene	ND	0.25			NR				
1,3-Butadiene	ND	0.25			NR				
1,3-Dichlorobenzene	ND	0.25			NR				
1,4-Dichlorobenzene	ND	0.25			NR				
1,4-Dioxane	ND	0.25			NR				
2,2,4-Trimethylpentane	ND	0.25			NR				
2-Butanone	ND	0.25			NR				
2-Chloroethyl vinyl ether	ND	0.25			NR				
2-Chlorotoluene	ND	0.25			NR				
2-Hexanone	ND	0.25			NR				
2-Propanol	ND	0.25			NR				
4-Chlorotoluene	ND	0.25			NR				
4-Ethyl Toluene	ND	0.25			NR				
4-Methyl-2-pentanone	ND	0.25			NR				
Acetone	ND	0.25			NR				
Acetonitrile	ND	0.25			NR				
Acrolein	ND	0.25			NR				
Acrylonitrile	ND	0.25			NR				
Benzene	ND	0.25			NR				
Benzyl chloride	ND	0.25			NR				
Bromobenzene	ND	0.25			NR				
Bromodichloromethane	ND	0.25			NR				
Bromoform	ND	0.25			NR				
Bromomethane	ND	0.25			NR				



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/09/2012

Volatile Organic Compounds in AIR by TO-15 - Quality Control (cont'd)

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
---------	------------------	---------------	----------------	------------------	----------------	-----------------	------------	--------------	-------

Batch B2B0799 - No_Prep_Air (continued)

Blank (B2B0799-BLK1) - Continued

Prepared: 3/1/2012 Analyzed: 3/1/2012

Carbon disulfide	ND	0.25						NR	
Carbon tetrachloride	ND	0.25						NR	
Chlorobenzene	ND	0.25						NR	
Chloroethane	ND	0.25						NR	
Chloroform	ND	0.25						NR	
Chloromethane	ND	0.25						NR	
cis-1,2-Dichloroethene	ND	0.25						NR	
cis-1,3-Dichloropropene	ND	0.25						NR	
Cyclohexane	ND	0.25						NR	
Dibromochloromethane	ND	0.25						NR	
Dibromomethane	ND	0.25						NR	
Dichlorodifluoromethane	ND	0.25						NR	
Dichlorotetrafluoroethane	ND	0.25						NR	
Ethanol	ND	0.25						NR	
Ethylbenzene	ND	0.25						NR	
Freon-113	ND	0.25						NR	
Hexachlorobutadiene	ND	0.25						NR	
Isopropylbenzene	ND	0.25						NR	
m,p-Xylene	ND	0.25						NR	
Methylene chloride	ND	0.25						NR	
MTBE	ND	0.25						NR	
n-Butylbenzene	ND	0.25						NR	
n-Propylbenzene	ND	0.25						NR	
Naphthalene	ND	0.25						NR	
o-Xylene	ND	0.25						NR	
p-Isopropyltoluene	ND	0.25						NR	
sec-Butylbenzene	ND	0.25						NR	
Styrene	ND	0.25						NR	
tert-Butylbenzene	ND	0.25						NR	
Tetrachloroethene	ND	0.25						NR	
Toluene	ND	0.25						NR	
trans-1,2-Dichloroethene	ND	0.25						NR	
trans-1,3-Dichloropropene	ND	0.25						NR	
Trichloroethene	ND	0.25						NR	
Trichlorofluoromethane	ND	0.25						NR	
Vinyl acetate	ND	0.25						NR	
Vinyl chloride	ND	0.25						NR	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.9</i>		<i>2.50</i>			<i>117</i>		<i>70 - 130</i>	

LCS (B2B0799-BS1)

Prepared: 3/1/2012 Analyzed: 3/1/2012

1,1-Dichloroethane	1.9	0.25	2.00			95.5		70 - 130	
--------------------	-----	------	------	--	--	------	--	----------	--



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/09/2012

Volatile Organic Compounds in AIR by TO-15 - Quality Control (cont'd)

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
---------	------------------	---------------	----------------	------------------	----------------	-----------------	------------	--------------	-------

Batch B2B0799 - No_Prep_Air (continued)

LCS (B2B0799-BS1) - Continued

Prepared: 3/1/2012 Analyzed: 3/1/2012

Benzene	2.0	0.25	2.00		101	70 - 130			
Chloroform	1.8	0.25	2.00		87.5	70 - 130			
o-Xylene	1.9	0.25	2.00		95.0	70 - 130			
Tetrachloroethene	1.8	0.25	2.00		92.5	70 - 130			
Toluene	1.9	0.25	2.00		97.0	70 - 130			
Trichloroethene	1.8	0.25	2.00		87.5	70 - 130			
Vinyl chloride	1.9	0.25	2.00		96.0	70 - 130			

<i>Surrogate: 4-Bromofluorobenzene</i>	2.9		2.50		114	70 - 130			
--	-----	--	------	--	-----	----------	--	--	--

LCS Dup (B2B0799-BS1)

Prepared: 3/1/2012 Analyzed: 3/1/2012

1,1-Dichloroethane	2.1	0.25	2.00		103	70 - 130	7.56	20	
Benzene	1.8	0.25	2.00		90.5	70 - 130	11.0	20	
Chloroform	2.1	0.25	2.00		103	70 - 130	16.3	20	
o-Xylene	2.0	0.25	2.00		101	70 - 130	6.12	20	
Tetrachloroethene	2.1	0.25	2.00		103	70 - 130	10.7	20	
Toluene	1.8	0.25	2.00		92.5	70 - 130	4.75	20	
Trichloroethene	1.8	0.25	2.00		90.0	70 - 130	2.82	20	
Vinyl chloride	2.0	0.25	2.00		102	70 - 130	5.57	20	

<i>Surrogate: 4-Bromofluorobenzene</i>	3.0		2.50		121	70 - 130			
--	-----	--	------	--	-----	----------	--	--	--



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/09/2012

Gasoline Range Organics in Air by TO-3 - Quality Control

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
---------	------------------	---------------	----------------	------------------	----------------	-----------------	------------	--------------	-------

Batch B2B0809 - No_Prep_Air

Blank (B2B0809-BLK1)

Prepared: 2/29/2012 Analyzed: 2/29/2012

Gasoline Range Organics	ND	20			NR				
<i>Surrogate: 4-Bromofluorobenzene</i>	2.3		2.50		90.4	70 - 130			

LCS (B2B0809-BS1)

Prepared: 2/29/2012 Analyzed: 2/29/2012

Gasoline Range Organics	190	20	200		95.0	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.2		2.50		88.8	70 - 130			

LCS Dup (B2B0809-BSD1)

Prepared: 2/29/2012 Analyzed: 2/29/2012

Gasoline Range Organics	190	20	200		96.4	70 - 130	1.43	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	2.3		2.50		91.2	70 - 130			



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/09/2012

Notes and Definitions

S7	Surrogate recovery was above laboratory acceptance limit. Chromatogram shows high concentration of heavy hydrocarbons.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

CHAIN-OF-CUSTODY RECORD

Advanced Technology Laboratories

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



QC Level: RTNE

Subcontractor:

Advanced Technology Laboratories - Signal Hill
 3283 Walnut Ave.
 Signal Hill, California

TEL: (562) 989-4045
 FAX: (562) 989-4045
 Acct #:

Field Sampler: None specified

29-Feb-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				EPA TO15	EPA TO3
N007397-001A / VINIF-02-28 / 2007397-01	Air	2/28/2012 1:00:00 PM	BAG	1	1

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

Please use PO#: N007397

Please fax results by: Normal TAT

Date/Time	Date/Time
Relinquished by: _____	2/27/12 12:00
Received by: _____	2/29/12 12:40
Relinquished by: _____	Received by: _____
Received by: _____	Received by: _____

March 7, 2012

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



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



FL Cert E8784/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: N007397
Lab Number: D022901-01

Enclosed are results for sample(s) received 2/29/12 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).

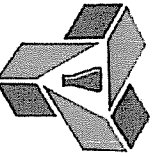
ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

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

0222901-01



Advanced Technology Laboratories

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

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

ATL-Industry

TEL:

FAX:

Acct #:

Field Sampler: None specified

City of Industry, CA

29-Feb-12

Sample ID	Matrix	Date Collected	Bottle Type	ASTM D1946	Requested Tests
N007397-001B / VINP-02-28	Air	2/28/2012 1:00:00 PM	BAG	1	

01

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

Please use PO#: N007397

Please fax results by: Normal TAT


Relinquished by:	Date/Time	Received by:	Date/Time
<i>[Signature]</i>	2/29/12 1422	<i>[Signature]</i>	2/29/12 1422
<i>[Signature]</i>	2/29/12 1422	Don Tinsion	2/29/12 1422

Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N007397
Date Received: 02/29/12
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	D022901-01				
Client Sample I.D.:	N007397-001B / VINP-02-28				
Date Sampled:	02/28/12				
Date Analyzed:	03/01/12				
QC Batch No.:	120301MS2A1				
Analyst Initials:	DT				
Dilution Factor:	1.0				
ANALYTE	Result % v/v	RL % v/v			
Carbon Dioxide	0.90	0.010			
Oxygen/Argon	20	0.50			
Methane	0.0067	0.0010			

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-7-12

The cover letter is an integral part of this analytical report




QC Batch No.: 120301GC8A1
 Matrix: Air
 Units: % v/v

QC for ASTM D1946

Lab No.:	Method Blank	LCS		LCSD				
Date Analyzed:	03/01/12	03/01/12		03/01/12				
Analyst Initials:	DT	DT		DT				
Datafile:	01mar010	01mar007		01mar008				
Dilution Factor:	1.0	1.0		1.0				
ANALYTE	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Oxygen/Argon	0.50	ND	98	70-130%	97	70-130%	1.1	<30
Methane	0.0010	ND	98	70-130%	97	70-130%	0.7	<30
Carbon Dioxide	0.010	ND	102	70-130%	101	70-130%	1.2	<30

PQL = Practical Quantitation Limit
 ND = Not Detected (Below RL).
 RL = PQL X Dilution Factor

Reviewed/Approved By: 
 Mark J. Johnson
 Operations Manager

Date: 3-7-12

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



March 21, 2012

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.: N007487

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on March 15, 2012 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: N007487

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N007487
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N007487-001A	INF-03-13	Wastewater	3/13/2012 12:00:00 PM	3/15/2012	3/21/2012
N007487-001B	INF-03-13	Wastewater	3/13/2012 12:00:00 PM	3/15/2012	3/21/2012
N007487-001C	INF-03-13	Wastewater	3/13/2012 12:00:00 PM	3/15/2012	3/21/2012



Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 21-Mar-12

CLIENT: CH2M HILL
Lab Order: N007487
Project: SFPP - Norwalk Site
Lab ID: N007487-001

Client Sample ID: INF-03-13
Collection Date: 3/13/2012 12:00:00 PM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS1_120315B	QC Batch:	D12VW024	PrepDate:	Analyst:	QBM
1,1-Dichloroethane	ND	0.099	0.50	µg/L	1	3/15/2012 09:04 PM
1,2-Dichloroethane	ND	0.17	0.50	µg/L	1	3/15/2012 09:04 PM
2-Butanone	ND	1.0	10	µg/L	1	3/15/2012 09:04 PM
Benzene	2900	7.5	100	µg/L	100	3/15/2012 04:28 PM
Di-isopropyl ether	23	0.072	1.0	µg/L	1	3/15/2012 09:04 PM
Ethyl tert-butyl ether	ND	0.070	1.0	µg/L	1	3/15/2012 09:04 PM
Ethylbenzene	43	0.051	1.0	µg/L	1	3/15/2012 09:04 PM
m,p-Xylene	140	0.17	1.0	µg/L	1	3/15/2012 09:04 PM
MTBE	120	0.89	10	µg/L	10	3/15/2012 04:48 PM
o-Xylene	36	0.077	1.0	µg/L	1	3/15/2012 09:04 PM
Tert-amyl methyl ether	ND	0.10	1.0	µg/L	1	3/15/2012 09:04 PM
Tert-Butanol	1600	12	50	µg/L	10	3/15/2012 04:48 PM
Toluene	79	0.12	2.0	µg/L	1	3/15/2012 09:04 PM
Xylenes, Total	180	1.5	2.0	µg/L	1	3/15/2012 09:04 PM
Surr: 1,2-Dichloroethane-d4	101	0	72-119	%REC	10	3/15/2012 04:48 PM
Surr: 1,2-Dichloroethane-d4	95.5	0	72-119	%REC	100	3/15/2012 04:28 PM
Surr: 1,2-Dichloroethane-d4	115	0	72-119	%REC	1	3/15/2012 09:04 PM
Surr: 4-Bromofluorobenzene	91.2	0	76-119	%REC	1	3/15/2012 09:04 PM
Surr: 4-Bromofluorobenzene	89.4	0	76-119	%REC	100	3/15/2012 04:28 PM
Surr: 4-Bromofluorobenzene	90.2	0	76-119	%REC	10	3/15/2012 04:48 PM
Surr: Dibromofluoromethane	98.6	0	85-115	%REC	100	3/15/2012 04:28 PM
Surr: Dibromofluoromethane	100	0	85-115	%REC	10	3/15/2012 04:48 PM
Surr: Dibromofluoromethane	100	0	85-115	%REC	1	3/15/2012 09:04 PM
Surr: Toluene-d8	85.6	0	81-120	%REC	10	3/15/2012 04:48 PM
Surr: Toluene-d8	80.1	0	81-120	S %REC	1	3/15/2012 09:04 PM
Surr: Toluene-d8	88.5	0	81-120	%REC	100	3/15/2012 04:28 PM

TPH-FUEL PRODUCT BY GC/FID

EPA 3510C

EPA 8015B

RunID:	GC1_120320A	QC Batch:	39288	PrepDate:	3/16/2012	Analyst:	MDM
TPH-Fuel Product	2100	13	51	ug/L	1	3/20/2012 02:41 PM	
Surr: Octacosane	104	0	26-152	%REC	1	3/20/2012 02:41 PM	
Surr: p-Terphenyl	116	0	57-132	%REC	1	3/20/2012 02:41 PM	

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

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



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: CH2M HILL

Client Sample ID: INF-03-13

Lab Order: N007487

Collection Date: 3/13/2012 12:00:00 PM

Project: SFPP - Norwalk Site

Matrix: WASTEWATER

Lab ID: N007487-001

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

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_120317A	QC Batch: E12VW012	PrepDate:	Analyst: MCS
TPH-Gasoline (C4-C12)	6100 6.0	100	µg/L
Surr: Chlorobenzene - d5	106 0	74-138	%REC

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

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



CLIENT: CH2M HILL

Work Order: N007487

Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-39288	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 3/16/2012	RunNo: 83646						
Client ID: PBW	Batch ID: 39288	TestNo: EPA 8015B	EPA 3510C	Analysis Date: 3/20/2012	SeqNo: 1374995						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	23.341	50									J
Surr: Octacosane	66.525		80.00		83.2	26	152				
Surr: p-Terphenyl	70.239		80.00		87.8	57	132				

Qualifiers:

- B Analyte detected in the associated Method Blank
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - S Spike/Surrogate outside of limits due to matrix interference
 - 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: N007487
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GSFPP

Sample ID: E120317LCS	SampType: LCS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 83627						
Client ID: LCSW	Batch ID: E12VW012	TestNo: EPA 8015B		Analysis Date: 3/17/2012	SeqNo: 1374530						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	967.000	100	1000	0	96.7	67	136				
Surr: Chlorobenzene - d5	51.545		50.00		103	74	138				

Sample ID: E120317MB1	SampType: MBLK	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 83627						
Client ID: PBW	Batch ID: E12VW012	TestNo: EPA 8015B		Analysis Date: 3/17/2012	SeqNo: 1374531						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	100			108	74	138				
Surr: Chlorobenzene - d5	54.104		50.00								

Sample ID: N007489-001MMS	SampType: MS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 83627						
Client ID: ZZZZZ	Batch ID: E12VW012	TestNo: EPA 8015B		Analysis Date: 3/17/2012	SeqNo: 1374532						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	953.000	100	1000	0	95.3	67	136				
Surr: Chlorobenzene - d5	51.528		50.00		103	74	138				

Sample ID: N007489-001MMSD	SampType: MSD	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 83627						
Client ID: ZZZZZ	Batch ID: E12VW012	TestNo: EPA 8015B		Analysis Date: 3/17/2012	SeqNo: 1374533						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	947.000	100	1000	0	94.7	67	136	953.0	0.632	30	
Surr: Chlorobenzene - d5	51.891		50.00		104	74	138		0	0	

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: N007487
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D120315LCS2	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L
Client ID: LCSW	Batch ID: D12VW024	TestNo: EPA 8260B	
Prep Date:		RunNo: 83601	
Analysis Date: 3/15/2012		SeqNo: 1373390	

Analyte	Result	PQL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	18.950	0.50	20.00	0		94.8	69	133				
1,2-Dichloroethane	21.230	0.50	20.00	0		106	69	132				
2-Butanone	190.540	10	200.0	0		95.3	49	136				
Benzene	18.700	1.0	20.00	0		93.5	81	122				
Di-isopropyl ether	16.500	1.0	20.00	0		82.5	70	130				
Ethyl tert-butyl ether	17.660	1.0	20.00	0		88.3	70	130				
Ethylbenzene	18.420	1.0	20.00	0		92.1	73	127				
m,p-Xylene	36.890	1.0	40.00	0		92.2	76	128				
MTBE	19.100	1.0	20.00	0		95.5	65	123				
o-Xylene	18.200	1.0	20.00	0		91.0	80	121				
Tert-amyl methyl ether	17.400	1.0	20.00	0		87.0	70	130				
Tert-Butanol	83.270	5.0	100.0	0		83.3	70	130				
Toluene	16.710	2.0	20.00	0		83.6	77	122				
Xylenes, Total	55.090	2.0	60.00	0		91.8	75	125				
Surr: 1,2-Dichloroethane-d4	25.750		25.00			103	72	119				
Surr: 4-Bromofluorobenzene	22.130		25.00			88.5	76	119				
Surr: Dibromofluoromethane	26.660		25.00			107	85	115				
Surr: Toluene-d8	21.410		25.00			85.6	81	120				

Sample ID: N007488-007AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZ	Batch ID: D12VW024	TestNo: EPA 8260B	
Prep Date:		RunNo: 83601	
Analysis Date: 3/15/2012		SeqNo: 1373391	

Analyte	Result	PQL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	19.530	0.50	20.00	0		97.6	69	133				
1,2-Dichloroethane	21.180	0.50	20.00	0		106	69	132				
2-Butanone	117.170	10	200.0	0		58.6	49	136				
Benzene	19.150	1.0	20.00	0		95.8	81	122				
Di-isopropyl ether	17.230	1.0	20.00	0		86.2	70	130				
Ethyl tert-butyl ether	18.530	1.0	20.00	0		92.6	70	130				
Ethylbenzene	18.450	1.0	20.00	0		92.2	73	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

CLIENT: CH2M HILL
Work Order: N007487
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N007488-007AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 83601						
Client ID: ZZZZZZ	Batch ID: D12VW024	TestNo: EPA 8260B		Analysis Date: 3/15/2012	SeqNo: 1373391						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylene	37.180	1.0	40.00	0	93.0	76	128				
MTBE	19.730	1.0	20.00	0.4700	96.3	65	123				
o-Xylene	18.380	1.0	20.00	0	91.9	80	121				
Tert-amyl methyl ether	17.400	1.0	20.00	0	87.0	70	130				
Tert-Butanol	72.220	5.0	100.0	0	72.2	70	130				
Toluene	17.100	2.0	20.00	0	85.5	77	122				
Xylenes, Total	55.560	2.0	60.00	0	92.6	75	125				
Surr: 1,2-Dichloroethane-d4	25.730		25.00		103	72	119				
Surr: 4-Bromofluorobenzene	22.640		25.00		90.6	76	119				
Surr: Dibromofluoromethane	27.470		25.00		110	85	115				
Surr: Toluene-d8	21.640		25.00		86.6	81	120				

Sample ID: N007488-007AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 83601						
Client ID: ZZZZZZ	Batch ID: D12VW024	TestNo: EPA 8260B		Analysis Date: 3/15/2012	SeqNo: 1373392						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	19.700	0.50	20.00	0	98.5	69	133	19.53	0.867	20	
1,2-Dichloroethane	22.480	0.50	20.00	0	112	69	132	21.18	5.96	20	
2-Butanone	145.050	10	200.0	0	72.5	49	136	117.2	21.3	20	R
Benzene	19.240	1.0	20.00	0	96.2	81	122	19.15	0.469	20	
Di-isopropyl ether	17.740	1.0	20.00	0	88.7	70	130	17.23	2.92	20	
Ethyl tert-butyl ether	19.530	1.0	20.00	0	97.6	70	130	18.53	5.25	20	
Ethylbenzene	18.570	1.0	20.00	0	92.8	73	127	18.45	0.648	20	
m,p-Xylene	37.230	1.0	40.00	0	93.1	76	128	37.18	0.134	20	
MTBE	21.800	1.0	20.00	0.4700	107	65	123	19.73	9.97	20	
o-Xylene	18.360	1.0	20.00	0	91.8	80	121	18.38	0.109	20	
Tert-amyl methyl ether	18.710	1.0	20.00	0	93.6	70	130	17.40	7.26	20	
Tert-Butanol	97.730	5.0	100.0	0	97.7	70	130	72.22	30.0	20	R
Toluene	16.930	2.0	20.00	0	84.6	77	122	17.10	0.999	20	
Xylenes, Total	55.590	2.0	60.00	0	92.6	75	125	55.56	0.0540	20	

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N007487
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N007488-007AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 83601						
Client ID: ZZZZZ	Batch ID: D12VW024	TestNo: EPA 8260B		Analysis Date: 3/15/2012	SeqNo: 1373392						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	27.420		25.00		110	72	119			0	
Surr: 4-Bromofluorobenzene	22.880		25.00		91.5	76	119			0	
Surr: Dibromofluoromethane	27.570		25.00		110	85	115			0	
Surr: Toluene-d8	21.390		25.00		85.6	81	120			0	

Sample ID: D120315MB4	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 83601						
Client ID: PBW	Batch ID: D12VW024	TestNo: EPA 8260B		Analysis Date: 3/15/2012	SeqNo: 1373393						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	ND	0.50									
1,2-Dichloroethane	ND	0.50									
2-Butanone	ND	10									
Benzene	ND	1.0									
Di-isopropyl ether	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
MTBE	ND	1.0									
o-Xylene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
Toluene	ND	2.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	22.480		25.00		89.9	72	119				
Surr: 4-Bromofluorobenzene	22.240		25.00		89.0	76	119				
Surr: Dibromofluoromethane	23.880		25.00		95.5	85	115				
Surr: Toluene-d8	22.220		25.00		88.9	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

CHAIN OF CUSTODY RECORD

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

DATE: 03-13-12
 PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh 1100 Town & Country Road Orange, CA 92868 TEL: 714-560-4802 FAX: 714-560-4601 E-MAIL: james.defibaugh@kemp.com		CLIENT PROJECT NAME/NUMBER: SFPP - Norwalk Site PROJECT CONTACT: James Dye SAMPLER(S) (SIGNATURE)		P.O. NO.:	QUOTE NO.:					
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 / /		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.										
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	TIME	MAT- RIX	NO. OF CONT.	TPH - g (8015M)	TPH - lb (8015M)	VOCs + Oxygenates (826B)	Comments
	INF- 03-13	Influent	03-13-12	1200	WW	8	X	X	X	N007407-1
Relinquished by: (Signature)							Received by: (Signature)		Date: 3/14/12	Time: 1615
Relinquished by: (Signature)							Received by: (Signature)		Date: 3/14/12	Time: 1658
Relinquished by: (Signature)							Received by: (Signature)		Date: 3/15/12	Time: 1000

Revised: 07/25/2011
 4-1-C 1/24/12
 LCE

From: (562) 989-4045
Camen Aguila
Advanced Tech Labs
3275 walnut ave

signal hill, CA 90755

Origin ID: LGBA



Ship Date: 14MAR12
ActWgt: 10.0 LB
CAD: 4346475/INET3250
Dims: 12 X 8 X 12 IN

Delivery Address Bar Code



SHIP TO: (702) 307-2659

BILL RECIPIENT

Marlon
ATL
3151 W POST RD

LAS VEGAS, NV 89118

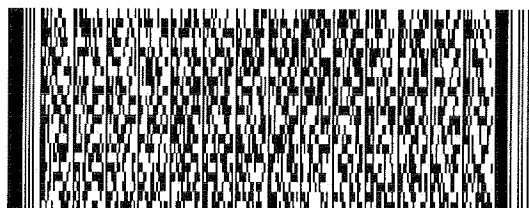
Ref # CH2M Hill Sample
Invoice #
PO #
Dept #

THU - 15 MAR A1
PRIORITY OVERNIGHT

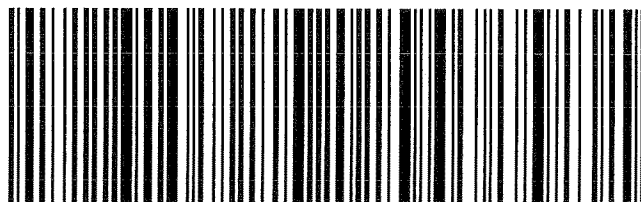
TRK# 7981 7063 8203

0201

89118
NV-US
LAS



QV LASA



512G1R1D5IA278

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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: 3/15/2012 Workorder: N007487
 Rep sample Temp (Deg C): 4.1 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: FedEx
 Last 4 digits of Tracking No.: 8203 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

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

Comments:

Checklist Completed B

MBC

3/15/12

Reviewed By:

[Signature]

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: 03-13-12
 PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh		CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site		P.O. NO.:					
ADDRESS: 1100 Town & Country Road		PROJECT CONTACT: James Dye		QUOTE NO.:					
CITY: Orange, CA 92868		SAMPLER(S) SIGNATURE: 		LAB USE ONLY <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					
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"/> 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> / <u> </u> / <u> </u>									
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.									
REQUESTED ANALYSIS									
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	TIME	NO. OF CONT.	TPH - g (8015M)	TPH - lb (8015M)	VOCs + Oxygenates (B260B)	Comments
	INF- 63-13	Influent	03-13-12	12:00	8	X	X	X	
Relinquished by: (Signature) Date: 3/14/12 Time: 16:15 Received by: (Signature) Date: 3/14/12 Time: 16:58 Relinquished by: (Signature) Date: 3/15/12 Time: 10:00 Received by: (Signature) Date: 3/15/12 Time: 10:00 Relinquished by: (Signature) Date: 3/15/12 Time: 10:00 Received by: (Signature) Date: 3/15/12 Time: 10:00									

Revised: 07/25/2011
 4.10C 12#2
 1GE

March 26, 2012

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.: N007486

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

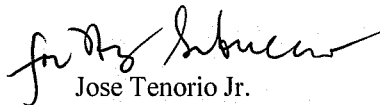
Enclosed are the results for sample(s) received on March 14, 2012 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N007486

CASE NARRATIVE

Subcontracted Analyses:

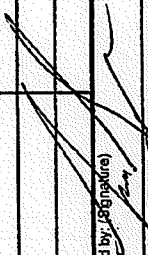
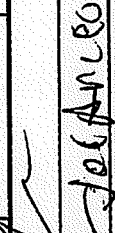
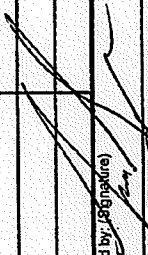
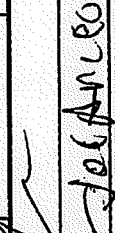
Sample for EPA TO3 and EPATO15 was subcontracted to Advanced Technology Laboratories-Signal Hill, CA .

Sample for ASTM D1946 was subcontracted to Air Technology Laboratories-City of Industry, CA.

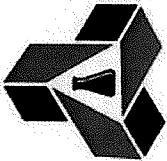
CHAIN OF CUSTODY RECORD

DATE: 03-13-12
 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		CLIENT PROJECT NAME/NUMBER: SPPP - Norwalk Site PROJECT CONTACT: James Dye SAMPLER(S) (SIGNATURE)		P.O. NO.: QUOTE NO.:	
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 / /		REQUESTED ANALYSIS			
SPECIAL INSTRUCTIONS Report to D. Jablonski/CH2M HILL, cc: KMEP Direct Bill KMEP/SPPP - Steve Defibaugh-ref. AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.		TO-15 <input checked="" type="checkbox"/>		TO-3 (PH-g) <input checked="" type="checkbox"/>	
TO-15 <input checked="" type="checkbox"/>		TO-3 (PH-g) <input checked="" type="checkbox"/>		Monthly sample <u>4007486-1</u> Comments	
SAMPLE ID VINF-03-13		LOCATION/ DESCRIPTION Influent Vapor (from header) <u>3-13-12</u>		MAT- RIX Air	
DATE <u>3-13-12</u>		TIME <u>12:20</u>		NO. OF CONT. 4	
Received by: (Signature) 		Received by: (Signature) 		Date: <u>3/13/12</u> Time: <u>1615</u>	
Received by: (Signature) 		Received by: (Signature) 		Date: <u>3/14/12</u> Time: <u>1658</u>	
Received by: (Signature)		Received by: (Signature)		Date:	

Revised: 04/27/2011



Advanced Technology Laboratories

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

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Advanced Technology Laboratories - Signal Hill
3283 Walnut Ave.
Signal Hill, California

TEL: (562) 989-4045
FAX: (562) 989-4045
Acct #:

Field Sampler: Signed

15-Mar-12

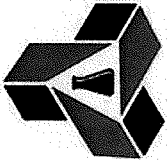
Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				EPA TO15	EPA TO3
N007486-001A / VINP-03-13	Air	3/13/2012 12:30:00 PM	BAG	1	1

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

Please use PO#: N007486

Please fax results by: Normal TAT

	Date/Time
Relinquished by: _____	3/15/12 2:09 PM
Received by: _____	_____
Relinquished by: _____	_____
Received by: _____	_____



Advanced Technology Laboratories

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

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

ATL Air Labs
18501 E. Gale Ave, Suite 130
City of Industry, CA 91748

TEL: (626) 964-4032
FAX: (626) 964-5832
Acct #:

Field Sampler: Signed

15-Mar-12

Sample ID	Matrix	Date Collected	Bottle Type	ASTM D1946	Requested Tests
N007486-001B / VINP-03-13	Air	3/13/2012 12:30:00 PM	BAG	1	

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

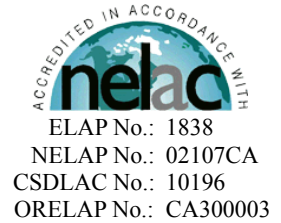
Please use PO#: N007486

Please fax results by: Normal TAT

	Date/Time
Relinquished by: _____	3/15/12 0900
Received by: _____	
Relinquished by: _____	
Received by: _____	

March 26, 2012

Marlon Cartin
Advanced Technology Laboratory-Las Vegas
3151 W Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659
Fax:(702) 307-2691



Re: ATL Work Order Number : 1200928
Client Reference : [none]

Enclosed are the results for sample(s) received on March 15, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie Rodriguez", with a small initial "ER" at the bottom left.

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/26/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N007486-001A / VINP-03-13	1200928-01	Air	3/13/12 12:30	3/15/12 9:05



Advanced Technology Laboratory-Las Vegas
3151 W Post Rd.
Las Vegas , NV 89118

Project Number : -
Report To : Marlon Cartin
Reported : 03/26/2012

Client Sample ID N007486-001A / VINP-03-13
Lab ID: 1200928-01

Volatile Organic Compounds in AIR by TO-15

Analyst: BB

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,1,1-Trichloroethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,1,2,2-Tetrachloroethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,1,2-Trichloroethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,1-Dichloroethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,1-Dichloroethene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,1-Dichloropropene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,2,3-Trichloropropane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,2,4-Trichlorobenzene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,2,4-Trimethylbenzene	32	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,2-Dibromo-3-chloropropane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,2-Dibromoethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,2-Dichlorobenzene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,2-Dichloroethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,2-Dichloropropane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,3,5-Trimethylbenzene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,3-Butadiene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,3-Dichlorobenzene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,4-Dichlorobenzene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
1,4-Dioxane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
2,2,4-Trimethylpentane	530	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
2-Butanone	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
2-Chloroethyl vinyl ether	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
2-Chlorotoluene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
2-Hexanone	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
2-Propanol	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
4-Chlorotoluene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
4-Ethyl Toluene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
4-Methyl-2-pentanone	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Acetone	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Acetonitrile	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Acrolein	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Acrylonitrile	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Benzene	440	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/26/2012

Client Sample ID N007486-001A / VINP-03-13

Lab ID: 1200928-01

Volatile Organic Compounds in AIR by TO-15

Analyst: BB

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzyl chloride	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Bromobenzene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Bromodichloromethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Bromoform	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Bromomethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Carbon disulfide	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Carbon tetrachloride	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Chlorobenzene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Chloroethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Chloroform	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Chloromethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
cis-1,2-Dichloroethene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
cis-1,3-Dichloropropene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Cyclohexane	200	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Dibromochloromethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Dibromomethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Dichlorodifluoromethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Dichlorotetrafluoroethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Ethanol	120	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Ethylbenzene	38	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Freon-113	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Hexachlorobutadiene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Isopropylbenzene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
m,p-Xylene	180	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Methylene chloride	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
MTBE	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
n-Butylbenzene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
n-Propylbenzene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Naphthalene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
o-Xylene	61	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
p-Isopropyltoluene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
sec-Butylbenzene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Styrene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
tert-Butylbenzene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Tetrachloroethene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	



Advanced Technology Laboratory-Las Vegas
3151 W Post Rd.
Las Vegas , NV 89118

Project Number : -
Report To : Marlon Cartin
Reported : 03/26/2012

Client Sample ID N007486-001A / VINP-03-13
Lab ID: 1200928-01

Volatile Organic Compounds in AIR by TO-15

Analyst: BB

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	450	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
trans-1,2-Dichloroethene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
trans-1,3-Dichloropropene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Trichloroethene	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Trichlorofluoromethane	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Vinyl acetate	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
Vinyl chloride	ND	25	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>104 %</i>		<i>70 - 130</i>		B2C0387	03/15/2012	<i>03/15/12 16:02</i>	

Gasoline Range Organics in Air by TO-3

Analyst: BB

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	27000	2000	NA	100	B2C0387	03/15/2012	03/15/12 16:02	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>102 %</i>		<i>70 - 130</i>		B2C0387	03/15/2012	<i>03/15/12 16:02</i>	



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/26/2012

QUALITY CONTROL SECTION

Volatile Organic Compounds in AIR by TO-15 - Quality Control

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	------------------	---------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B2C0387 - No_Prep_Air

Blank (B2C0387-BLK1)

Prepared: 3/15/2012 Analyzed: 3/15/2012

1,1,1,2-Tetrachloroethane	ND	0.25				NR			
1,1,1-Trichloroethane	ND	0.25				NR			
1,1,2,2-Tetrachloroethane	ND	0.25				NR			
1,1,2-Trichloroethane	ND	0.25				NR			
1,1-Dichloroethane	ND	0.25				NR			
1,1-Dichloroethene	ND	0.25				NR			
1,1-Dichloropropene	ND	0.25				NR			
1,2,3-Trichloropropane	ND	0.25				NR			
1,2,4-Trichlorobenzene	ND	0.25				NR			
1,2,4-Trimethylbenzene	ND	0.25				NR			
1,2-Dibromo-3-chloropropane	ND	0.25				NR			
1,2-Dibromoethane	ND	0.25				NR			
1,2-Dichlorobenzene	ND	0.25				NR			
1,2-Dichloroethane	ND	0.25				NR			
1,2-Dichloropropane	ND	0.25				NR			
1,3,5-Trimethylbenzene	ND	0.25				NR			
1,3-Butadiene	ND	0.25				NR			
1,3-Dichlorobenzene	ND	0.25				NR			
1,4-Dichlorobenzene	ND	0.25				NR			
1,4-Dioxane	ND	0.25				NR			
2,2,4-Trimethylpentane	ND	0.25				NR			
2-Butanone	ND	0.25				NR			
2-Chloroethyl vinyl ether	ND	0.25				NR			
2-Chlorotoluene	ND	0.25				NR			
2-Hexanone	ND	0.25				NR			
2-Propanol	ND	0.25				NR			
4-Chlorotoluene	ND	0.25				NR			
4-Ethyl Toluene	ND	0.25				NR			
4-Methyl-2-pentanone	ND	0.25				NR			
Acetone	ND	0.25				NR			
Acetonitrile	ND	0.25				NR			
Acrolein	ND	0.25				NR			
Acrylonitrile	ND	0.25				NR			
Benzene	ND	0.25				NR			
Benzyl chloride	ND	0.25				NR			
Bromobenzene	ND	0.25				NR			
Bromodichloromethane	ND	0.25				NR			
Bromoform	ND	0.25				NR			
Bromomethane	ND	0.25				NR			



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/26/2012

Volatile Organic Compounds in AIR by TO-15 - Quality Control (cont'd)

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
---------	------------------	---------------	----------------	------------------	----------------	-----------------	------------	--------------	-------

Batch B2C0387 - No_Prep_Air (continued)

Blank (B2C0387-BLK1) - Continued

Prepared: 3/15/2012 Analyzed: 3/15/2012

Carbon disulfide	ND	0.25				NR			
Carbon tetrachloride	ND	0.25				NR			
Chlorobenzene	ND	0.25				NR			
Chloroethane	ND	0.25				NR			
Chloroform	ND	0.25				NR			
Chloromethane	ND	0.25				NR			
cis-1,2-Dichloroethene	ND	0.25				NR			
cis-1,3-Dichloropropene	ND	0.25				NR			
Cyclohexane	ND	0.25				NR			
Dibromochloromethane	ND	0.25				NR			
Dibromomethane	ND	0.25				NR			
Dichlorodifluoromethane	ND	0.25				NR			
Dichlorotetrafluoroethane	ND	0.25				NR			
Ethanol	ND	0.25				NR			
Ethylbenzene	ND	0.25				NR			
Freon-113	ND	0.25				NR			
Hexachlorobutadiene	ND	0.25				NR			
Isopropylbenzene	ND	0.25				NR			
m,p-Xylene	ND	0.25				NR			
Methylene chloride	ND	0.25				NR			
MTBE	ND	0.25				NR			
n-Butylbenzene	ND	0.25				NR			
n-Propylbenzene	ND	0.25				NR			
Naphthalene	ND	0.25				NR			
o-Xylene	ND	0.25				NR			
p-Isopropyltoluene	ND	0.25				NR			
sec-Butylbenzene	ND	0.25				NR			
Styrene	ND	0.25				NR			
tert-Butylbenzene	ND	0.25				NR			
Tetrachloroethene	ND	0.25				NR			
Toluene	ND	0.25				NR			
trans-1,2-Dichloroethene	ND	0.25				NR			
trans-1,3-Dichloropropene	ND	0.25				NR			
Trichloroethene	ND	0.25				NR			
Trichlorofluoromethane	ND	0.25				NR			
Vinyl acetate	ND	0.25				NR			
Vinyl chloride	ND	0.25				NR			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.5		2.50		101	70 - 130			

LCS (B2C0387-BS1)

Prepared: 3/15/2012 Analyzed: 3/15/2012

1,1-Dichloroethane	1.6	0.25	2.00		78.5	70 - 130			
--------------------	-----	------	------	--	------	----------	--	--	--



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/26/2012

Volatile Organic Compounds in AIR by TO-15 - Quality Control (cont'd)

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
---------	------------------	---------------	----------------	------------------	----------------	-----------------	------------	--------------	-------

Batch B2C0387 - No_Prep_Air (continued)

LCS (B2C0387-BS1) - Continued

Prepared: 3/15/2012 Analyzed: 3/15/2012

Benzene	2.0	0.25	2.00		98.5	70 - 130			
Chloroform	1.5	0.25	2.00		75.5	70 - 130			
o-Xylene	1.9	0.25	2.00		96.0	70 - 130			
Tetrachloroethene	1.7	0.25	2.00		84.5	70 - 130			
Toluene	1.9	0.25	2.00		95.5	70 - 130			
Trichloroethene	1.8	0.25	2.00		88.5	70 - 130			
Vinyl chloride	1.7	0.25	2.00		83.0	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.5		2.50		99.6	70 - 130			

LCS Dup (B2C0387-BS1)

Prepared: 3/15/2012 Analyzed: 3/15/2012

1,1-Dichloroethane	1.6	0.25	2.00		81.0	70 - 130	3.13	20	
Benzene	1.9	0.25	2.00		97.0	70 - 130	1.53	20	
Chloroform	1.6	0.25	2.00		79.0	70 - 130	4.53	20	
o-Xylene	1.9	0.25	2.00		96.5	70 - 130	0.519	20	
Tetrachloroethene	1.7	0.25	2.00		85.5	70 - 130	1.18	20	
Toluene	1.9	0.25	2.00		95.5	70 - 130	0.00	20	
Trichloroethene	1.8	0.25	2.00		88.5	70 - 130	0.00	20	
Vinyl chloride	1.7	0.25	2.00		84.0	70 - 130	1.20	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	2.6		2.50		102	70 - 130			



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/26/2012

Gasoline Range Organics in Air by TO-3 - Quality Control

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
---------	------------------	---------------	----------------	------------------	----------------	-----------------	------------	--------------	-------

Batch B2C0387 - No_Prep_Air

Blank (B2C0387-BLK1)

Prepared: 3/15/2012 Analyzed: 3/15/2012

Gasoline Range Organics	ND	20			NR				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.1</i>		<i>2.50</i>		<i>85.2</i>	<i>70 - 130</i>			

LCS (B2C0387-BS2)

Prepared: 3/15/2012 Analyzed: 3/15/2012

Gasoline Range Organics	170	20	200		85.9	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.4</i>		<i>2.50</i>		<i>96.8</i>	<i>70 - 130</i>			

LCS Dup (B2C0387-BSD2)

Prepared: 3/15/2012 Analyzed: 3/15/2012

Gasoline Range Organics	170	20	200		83.9	70 - 130	2.28	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.4</i>		<i>2.50</i>		<i>97.2</i>	<i>70 - 130</i>			



Advanced Technology Laboratory-Las Vegas

Project Number : -

3151 W Post Rd.

Report To : Marlon Cartin

Las Vegas , NV 89118

Reported : 03/26/2012

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)



Advanced Technology Laboratories

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

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Advanced Technology Laboratories - Signal Hill
3283 Walnut Ave.
Signal Hill, California

TEL: (562) 989-4045
FAX: (562) 989-4045
Acct #:

Field Sampler: Signed

15-Mar-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				EPA TO15	EPA TO3
N007486-001A / VINP-03-13	Air	3/13/2012 12:30:00 PM	BAG	1	1

1200 9225 -1

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

Please use PO#: N007486

Please fax results by: Normal TAT

	Date/Time
Relinquished by: _____	3/15/12 9:05 AM
Relinquished by: _____	1/15/12 9:05 AM

March 26, 2012

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



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



FL Cert E8784/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: N007486
Lab Number: D031502-01

Enclosed are results for sample(s) received 3/15/12 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).

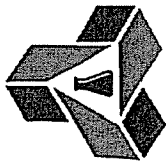
ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

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



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

CHAIN-OF-CUSTODY RECORD

0031502 - 01

QC Level: RTNE

Subcontractor:

ATL Air Labs
 18501 E. Gale Ave, Suite 130
 City of Industry, CA 91748

TEL: (626) 964-4032
 FAX: (626) 964-5832
 Acct #:

Field Sampler: Signed

15-Mar-12

Sample ID	Matrix	Date Collected	Bottle Type	ASTM D1946	Requested Tests
N007486-001B / VINP-03-13	Air	3/13/2012 12:30:00 PM	BAG	1	

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

Please use PO#: N007486







Please fax results by: Normal TAT

Relinquished by:	Date/Time	Received by:	Date/Time
<i>[Signature]</i>	3/15/12 0900	<i>Juan De La Rosa</i>	3/15/12 0400 (via email)
Relinquished by:		Received by:	

CHAIN OF CUSTODY RECORD

DATE: 03-13-12
 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-habs.com)

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh ADDRESS: 1100 Town & Country Road CITY: Orange, CA 92868 TEL: 714-560-4802 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 / / 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) (SAGNA/ORE) 		P.O. NO.: QUOTE NO.:	
E-MAIL james_dye@kindermorgan.com		FAX: 714-560-4601		LAB USE ONLY	
SAMPLE ID VINF-03-13		LOCATION/DESCRIPTION Influent Vapor (from header) 3-13-12		SAMPLING DATE 3-13-12	
NO. OF CONT. 4		MAT. RIX Air		COMMENTS Monthly sample	
X TO-15		X TO-3 (TPH-g)		X ASTM-1946 (O2/Argon, CO2, CH4)	
Received by: (Signature) 		Received by: (Signature) 		Date: 3/14/12 Time: 16:15	
Relinquished by: (Signature) 		Relinquished by: (Signature) 		Date: 3/14/12 Time: 16:58	
Relinquished by: (Signature) 		Relinquished by: (Signature) DON TILGESSON		Date: 3/15/12 Time: 7:53	
Revised: 04/27/2011					

Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N007486
Date Received: 03/15/12
Matrix: Air
Reporting Units: % v/v

Page 2 of 3
 D031502

ASTM D1946

Lab No.:	D031502-01						
Client Sample I.D.:	N007486-001B / VINP-03-13						
Date Sampled:	03/13/12						
Date Analyzed:	03/15/12						
QC Batch No.:	120315GC8A1						
Analyst Initials:	MJ						
Dilution Factor:	1.0						
ANALYTE	Result % v/v	RL % v/v					
Carbon Dioxide	0.71	0.010					
Oxygen/Argon	20	0.50					
Methane	0.0044	0.0010					

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

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

Date 3/22/12

The cover letter is an integral part of this analytical report





QC Batch No.: 120315GC8A1
Matrix: Air
Units: % v/v

QC for ASTM D1946

Lab No.:	Method Blank	LCS		LCSD				
Date Analyzed:	03/15/12	03/15/12		03/15/12				
Analyst Initials:	MJ	MJ		MJ				
Datafile:	15MAR005	15MAR002		15MAR003				
Dilution Factor:	1.0	1.0		1.0				
ANALYTE	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Oxygen/Argon	0.50	ND	97	70-130%	98	70-130%	0.3	<30
Methane	0.0010	ND	98	70-130%	99	70-130%	0.1	<30
Carbon Dioxide	0.010	ND	101	70-130%	101	70-130%	0.4	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: Mark J. Johnson  Date: 3/22/12
Operations Manager 

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

