Final

Second Quarter 2013 Remediation Progress Report SFPP Norwalk Pump Station Norwalk, California

Prepared for

Kinder Morgan Energy Partners, L.P.

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July 15, 2013

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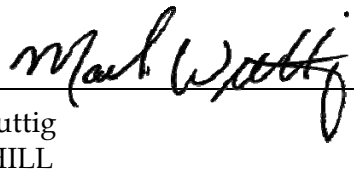
Signature Page

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.



July 15, 2013

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Contents

Acronyms and Abbreviations

µg/L	micrograms per liter
1,2-DCA	1,2-dichloroethane
ASTM	ASTM International (formerly American Society for Testing and Materials)
ATL	Advanced Technology Laboratories
DFSP	Defense Fuel Support Point
EPA	United States Environmental Protection Agency
FBBR	fluidized bed bioreactor
Geomatrix	Geomatrix Consultants, Inc.
GWE	groundwater extraction
KMEP	Kinder Morgan Energy Partners, L.P.
LGAC	liquid-phase granular activated carbon
MTBE	methyl tertiary butyl ether
NPDES	National Pollutant Discharge Elimination System
O&M	operations and maintenance
OWS	oil-water separator
PID	photoionization detector
ppmv	parts per million by volume
RBCA	Risk-Based Corrective Action
RWQCB	California Regional Water Quality Control Board, Los Angeles Region
SCAQMD	South Coast Air Quality Management District
Second Addendum	Second Addendum to the Remedial Action Plan, November 30, 2006
SFPP	SFPP, L.P.
SVE	soil vapor extraction
TBA	tertiary butyl alcohol
TFE	total fluids extraction
TPH-g	total petroleum hydrocarbons quantified as gasoline
TPH-d	total petroleum hydrocarbons quantified as diesel

TPH-o	total petroleum hydrocarbons quantified as oil
TPH-total	total petroleum hydrocarbons quantified as gasoline, diesel, and oil
VOC	volatile organic compound
WSB	West Side Barrier

1. Introduction

CH2M HILL has prepared this report on behalf of SFPP, L.P. (SFPP), an operating partnership of Kinder Morgan Energy Partners, L.P. (KMEP), to summarize remediation activities performed at the former SFPP Norwalk Pump Station located within the Defense Fuel Support Point (DFSP), located at 15306 Norwalk Boulevard, Norwalk, California (the site; Figure 1) during the second quarter 2013 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 Defense Fuel Support Point* (Second Addendum) dated November 30, 2006 (Geomatrix Consultants, Inc. [Geomatrix], 2006). Implementation of the Second Addendum was approved by the RWQCB on April 2, 2007. Additional background information can be found in the Second Addendum and in previously submitted semiannual groundwater monitoring reports for the site.

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

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

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

2. Remediation Systems

SFPP currently operates remediation systems consisting of soil vapor extraction (SVE), total fluids extraction (TFE; extraction of free product and/or groundwater using a top-loading pump), groundwater extraction (GWE; extraction of groundwater using a bottom-loading pump), and treatment of extracted soil vapors and groundwater to address two specific areas at and near the site: the south-central area and the southeastern area. Operation of the West Side Barrier (WSB) GWE system (WSB system) for remediation of the western offsite area was discontinued in August 2008.

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

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

A summary of remediation wells in the south-central, southeastern, and WSB areas is presented in Table 1. Table 1 includes well identifications, well construction details, well use, and operational status at the end of the second quarter 2013. The remediation system layout is presented in Figure 2.

3. Operations and Maintenance

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

- Performed weekly maintenance and monitoring of the south-central and southeastern SVE and TFE/GWE wells, and the SVE and TFE/GWE treatment systems (collectively referred to as remediation systems).
- Removed, inspected, and made repairs to the TFE/GWE pumps and associated discharge lines.
- Measured individual well vapor concentrations.
- Collected and analyzed system influent vapor and groundwater samples.
- Performed routine cleanout of the OWS, sump, equalization tank, and transfer tank.
- Performed bail-down testing in select remediation wells to estimate LNAPL transmissivity and determine recoverability.

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 second quarter 2013 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 second quarter 2013 are summarized in Tables 2 and 3. The remediation systems operated during the second quarter 2013 with the following exceptions:

- The TFE/GWE system was turned off on April 26, 2013, to clean out the OWS and sump. The system was restarted the same day.
- The SVE system was off on May 23 and May 29, 2013, for bail-down testing activities. The system was restarted the same day.
- The SVE system was off during the first week of June 2013 for bail-down testing activities. The system was restarted on June 6, 2013.
- The TFE/GWE system shut down on April 22, May 3, May 8, and June 25, 2013, due to clogged bag filters and a high water level in the transfer tank. The bag filters were changed out, the lead LGAC vessels were backwashed, and the system was restarted the same day. A backwash tank and a recirculation pump will be added to the upstream system to reduce the amount of fines that are plugging up the bag filters.
- The SVE and TFE/GWE systems were off on arrival on June 28, 2013, due to a sitewide power outage. The system was restarted the same day.

Overall, during the second quarter 2013, the SVE system operated 73 percent of the time, while the TFE/GWE system operated approximately 83 percent of the time. Without planned shutdown of the SVE and TFE/GWE systems, the SVE system operated approximately 90 percent of the time and the TFE/GWE system operated approximately 92 percent of the time during the second quarter 2013.

Vapor samples from the SVE system influent and water samples from TFE/GWE system influent were collected during the second quarter 2013 when the systems were in operation. During the second quarter 2013, influent vapor samples were collected on April 16, May 14, and June 28, 2013, when the SVE system was operating. Influent water samples were collected on April 16, May 14, and June 28, 2013, 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 ASTM International (ASTM) D-1946
- Total petroleum hydrocarbons quantified as gasoline (TPH-g) using United States Environmental Protection Agency (EPA) Method TO-3
- VOCs using EPA Method TO-15

ATL analyzed the water samples for the following:

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

Analytical results for the influent vapor and water samples are summarized in Tables 4 and 5, respectively. The laboratory analytical reports and chain-of-custody documents for these samples are included in Appendix 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 in the TFE/GWE and SVE wells were measured during the second quarter 2013 to the nearest 0.01 foot from the top of the well casing using an interface probe in selected wells. The gauging results are summarized in Table 7.

4. Summary of Remediation Progress

Based on weekly monitoring of the influent vapor concentration, vapor extraction flow rate, and hours of operation, the total mass of VOCs removed by SVE was approximately 9,824 pounds during the second quarter 2013, for a cumulative mass removal of approximately 77,304 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 1,649,993 gallons of groundwater was extracted during the second quarter 2013 (Table 3). No water was extracted from the WSB area during the second quarter 2013.

Groundwater extraction was discontinued in the WSB region during the third quarter 2008 based on the reduced lateral extent and low concentrations of MTBE and 1,2-dichloroethane (1,2-DCA) west of the site. Detected concentrations of MTBE and 1,2-DCA in wells west of the site have been below the conservative, site-specific Risk-Based Corrective Action (RBCA) goals (Geomatrix, 1999) since August 2005. The lower (more conservative) RBCA goals for MTBE and 1,2-DCA are 40 micrograms per liter (µg/L) and 70 µg/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 second quarter 2013. Because the amount of free product removed by TFE was significantly less than the volume of groundwater extracted, free product was emulsified in the relatively larger volume of groundwater extracted and was not observed to accumulate in the product holding tank of the groundwater treatment system. Therefore, the amount of free product removed by TFE was not estimated.

Based on the TPH-g results for influent water samples and total groundwater extracted, the mass of TPH-g removed by TFE and GWE in the south-central and southeastern areas was approximately 39 pounds during the second quarter 2013, for a cumulative mass removed from these areas of approximately 1,978 pounds since implementing the system upgrades described in the Second Addendum (Table 3). During the second quarter 2013, the influent water sample was also analyzed for TPH-d and TPH-o. Previous mass removal estimates were underestimated since TPH-d and TPH-o concentrations were not used in the calculation. Based on the TPH-total results (TPH-g, TPH-d, and TPH-o) for the influent water samples and total groundwater extracted from March 1 through June 30, 2013, the mass of TPH-total removed by TFE and GWE in the south-central and southeastern areas was approximately 55 pounds.

5. System Evaluation and Optimization

For the SVE treatment system, during the second quarter 2013, vapor-phase VOC concentrations were measured in individual wells using a PID on April 18, May 22, and June 20, 2013, as shown in Table 6. The operational status of the SVE wells at the end of the second quarter 2013 is also shown in Table 1. PID readings recorded on June 20, 2013, indicated 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.

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

As shown in Table 7, measurable free product was observed in nine remediation wells in the south-central area (GMW-10, GMW-24, GMW-O-12, GMW-O-20, GMW-O-23, GWR-3, MW-SF-3, MW-SF-6, and MW-SF-16) and one remediation well in the southeastern area (GMW-36). The product thicknesses for these wells ranged from 0.03 foot in GWR-3 to 5.52 feet in GMW-10. It is believed that increased product thicknesses observed during April 2013 are indicative of continued declining water levels across the site. SFPP plans to rehabilitate several wells in the southern offsite areas in the coming months and will begin TFE in that area. In addition, new pumps will be installed in other onsite wells to facilitate product removal in wells with increased product thicknesses. 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, and 4 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 second quarter 2013, there were four TFE wells online from the south-central area (MW-SF-3, MW-SF-14, MW-SF-15, and MW-SF-16) and four wells from the southeastern area (GMW-36, GMW-O-15, GMW-O-18, and GMW-SF-9).

6. Planned Third Quarter 2013 Activities

During the third quarter 2013, 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 third quarter 2013:

- Continue weekly maintenance and monitoring of the south-central and southeastern SVE and TFE/GWE treatment systems.
- Remove, inspect, and repair TFE/GWE pumps and associated discharge lines.
- Measure individual well vapor concentrations.
- Collect and analyze system influent vapor and groundwater samples.
- Install a backwash tank and a recirculation pump upstream of the bag filter housings on the TFE/GWE system. The backwash tank and pump assembly will allow clean (filtered and treated) water to be used for backwashing. This addition to the treatment system is anticipated to extend the life of the bag filters and granular activated carbon (GAC), and reduce the frequency of system shutdowns.
- Connect well GMW-10 to the TFE system due to increased product thickness in this well.
- Perform mechanical rehabilitation of southern offsite TFE extraction wells.

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 third quarter 2013 will be described in the Third Quarter 2013 Remediation Progress Report to be submitted by October 15, 2013.

7. References

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

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CH2M HILL. 2012d. *Fourth Quarter 2012 Remediation Progress Report, SFPP Norwalk Pump Station, Norwalk, California*. January 15.

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

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

Tables

TABLE 1

Remediation Well Construction and Status

SFPP Norwalk Pump Station, Norwalk, California

Remediation Area	Remediation Well ID	Installation Date	Top of Well Casing Elevation (ft msl)	Well Screen Interval (ft bgs)	Remediation Well Function	Well Operation Status at End of Second Quarter 2013[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	OFF	OFF
	MW-SF-3	6/18/1990	78.12	25 - 40	SVE; TFE	**ON**	**ON**
	MW-SF-4	6/19/1990	79.38	25 - 40	SVE	OFF	--
	MW-SF-5	9/19/1990	79.74	23 - 38	SVE	OFF	--
	MW-SF-6	9/19/1990	76.80	25 - 40	SVE; TFE	**ON**	OFF
	MW-SF-9	6/15/1995	74.10	--	SVE	**ON**	--
	MW-SF-10	9/23/2003	76.53	10 - 30	SVE	OFF	--
	MW-SF-11	6/19/2007	78.56	20 - 40	SVE; TFE	OFF	OFF
	MW-SF-12	6/18/2007	78.07	20 - 40	SVE; TFE	**ON**	OFF
	MW-SF-13	6/19/2007	73.40	20 - 40	SVE; TFE	**ON**	OFF
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	**ON**	**ON**
	MW-SF-15	6/21/2007	78.27	20 - 40	SVE; TFE	**ON**	**ON**
	MW-SF-16	6/20/2007	78.21	20 - 40	SVE; TFE	**ON**	**ON**
	GMW-9	7/8/1991	74.44	20 - 50	SVE; TFE	**ON**	OFF
	GMW-10	7/8/1991	74.67	25 - 50	SVE	**ON**	--
	GMW-22	8/2/1991	74.17	25 - 60	SVE; TFE	**ON**	OFF
	GMW-24	8/5/1991	74.04	25 - 60	SVE; TFE	**ON**	OFF
	GMW-25	1/10/1992	74.29	20 - 50	SVE; GWE	**ON**	OFF
	GWR-3	1/10/1992	74.93	20 - 50	SVE; GWE	**ON**	OFF
	VEW-1	--	--	--	SVE	OFF	--
	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	--	OFF
	GMW-O-23	6/25/2007	73.63	20 - 40	SVE; TFE	**ON**	OFF
	MW-18 (MID)	6/10/1991	75.67	50 - 60	SVE	**ON**	--
	HW-1	09/06/92	--	--	SVE	--	--
	HW-2	09/06/92	--	--	SVE	**ON**	--
Southeastern	GMW-O-15	4/19/1994	74.23	20 - 50	SVE; TFE	**ON**	**ON**
	GMW-O-18	7/25/1994	74.36	21 - 40	SVE; TFE	**ON**	**ON**
	GMW-36	4/11/1994	74.53	20 - 50	SVE; TFE	**ON**	**ON**
	GMW-SF-9	4/1/2003	73.00	37 - 46	GWE	--	**ON**
	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 (inches H_2O)	Mass Removed (pounds)[2]
2007 Totals[3]	**58,319**	**2,058**	--	**--**	**--**	**--**	**3,742**
2008 Totals	**64,233**	**5,915**	**--**	**--**	**--**	**--**	**5,878**
2009 Totals	**68,858**	**4,625**	**--**	**--**	**--**	**--**	**9,387**
2010 Totals	**72,369**	**3,511**	**--**	**--**	**--**	**--**	**1,501**
2011 Totals	**77,489**	**5,120**	**--**	**--**	**--**	**--**	**14,664**
2012 Totals	**84,173**	**1,923**	**--**	**--**	**--**	**--**	**22,260**
First Quarter 2013 Totals	**85,917**	**1,744**	**--**	**--**	**--**	**--**	**10,048**
04/03/13	86,107	190	--	258	1728	45	790
04/05/13	86,155	48	--	258	1731	45	320
04/09/13	86,250	96	--	210	1745	45	526
04/12/13	86,324	73	--	210	1724	40	399
04/16/13	86,422	98	**53**	165	1880	45	458
04/19/13	86,492	70	--	165	1752	50	304
04/22/13	86,531	39	--	165	1578	55	154
04/23/13	86,556	25	--	272	1665	50	170
04/30/13	86,721	165	--	248	1656	50	1,014
05/03/13	86,790	69	--	248	1732	55	447
05/07/13	86,885	95	--	188	1732	50	469
05/09/13	86,929	44	--	188	1732	50	213
05/10/13	86,951	22	--	188	1732	50	108
05/11/13	86,972	21	--	188	1732	50	105
05/12/13	86,996	23	--	188	1732	52	114
05/13/13	87,023	28	--	188	1732	55	135
05/14/13	87,046	23	--	570	783	45	152
05/15/13	87,072	26	--	570	783	40	173
05/16/13	87,095	24	--	570	783	40	159
05/17/13	87,117	22	--	570	783	40	147
05/18/13	87,142	24	--	570	783	40	163
05/19/13	87,164	23	--	570	783	45	152
05/20/13	87,193	29	--	570	783	45	191
05/21/13	87,214	21	--	530	767	45	126
05/22/13	87,240	26	--	530	767	30	161
05/23/13	87,263	23	--	530	767	75	142
05/24/13	87,283	20	**280**	530	767	65	121
05/25/13	87,291	8	--	530	767	30	46
05/26/13	87,333	42	--	530	767	30	257
05/27/13	87,360	27	--	530	767	30	165
05/28/13	87,382	22	--	418	875	30	122
06/04/13	87,382	0	--	478	888	30	1
06/08/13	87,404	22	--	478	888	25	138
06/09/13	87,427	23	--	478	888	25	146
06/10/13	87,453	27	--	478	888	25	169
06/11/13	87,475	22	--	150	1693	25	83
06/14/13	87,547	72	--	150	1693	25	274
06/17/13	87,619	72	--	150	1693	25	274
06/18/13	87,644	25	--	158	768	25	45
06/20/13	87,689	46	--	158	768	25	83
06/25/13	87,809	120	--	242	866	35	378
06/28/13	87,884	74	--	242	866	35	233
Second Quarter 2013 Totals	**87,884**	**1,967**	**--**	**--**	**--**	**--**	**9,824**
Cumulative Mass Removed Since Implementation of RAP Upgrades[4]							**77,304**

Notes
1. 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.
2. The total mass removed is based on influent FID or PID readings, hours of operation, and flow rate.
3. The 2007 total includes only operation after upgrades were made to the south-central system.
4. Upgrades to the south-central 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)
ppmv = parts per million by volume
PID = photoionization detector
FID = flame ionization detector
scfm = standard cubic feet per minute
inches H_2O = inches of water
-- = not applicable or not available

TABLE 3
Groundwater Remediation System Operation Summary
SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Groundwater Removed from the South-Central and Southeastern Areas (gallons)	Groundwater Removed from the West Side Barrier Area (gallons)	Total Groundwater Removed (gallons)	Influent TPH-g Concentration (µg/L)[1]	TPH-g Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds)[2]	Influent TPH-total (TPH-g, TPH-d, TPH-o) Concentration (µg/L)[1]	TPH-total Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds)[2]
2007 Totals[3]	**2,610,173**	**630,877**	**3,241,050**	**--**	**395**	**--**	**--**
2008 Totals	**6,092,742**	**405,954[4]**	**6,498,696**	**--**	**311**	**--**	**--**
2009 Totals	**8,815,705**	**0**	**8,815,705**	**--**	**161**	**--**	**--**
2010 Totals	**5,724,835**	**2,244**	**5,727,079**	**--**	**334**	**--**	**--**
2011 Totals	**9,050,541**	**0**	**9,050,541**	**--**	**398**	**--**	**--**
2012 Totals	**7,173,856**	**0**	**7,173,856**	**--**	**260**	**--**	**171**
First Quarter 2013 Totals	**1,771,016**	**0**	**1,771,016**	**--**	**80**	**--**	**208**
04/01/13	16,654	0	16,654	1100	0.15	2,670	0.37
04/02/13	16,061	0	16,061	1100	0.15	2,670	0.36
04/03/13	16,169	0	16,169	1100	0.15	2,670	0.36
04/04/13	16,286	0	16,286	1100	0.15	2,670	0.36
04/05/13	16,260	0	16,260	1100	0.15	2,670	0.36
04/06/13	16,318	0	16,318	1100	0.15	2,670	0.36
04/07/13	15,815	0	15,815	1100	0.14	2,670	0.35
04/08/13	16,064	0	16,064	1100	0.15	2,670	0.36
04/09/13	15,824	0	15,824	1100	0.14	2,670	0.35
04/10/13	13,973	0	13,973	1100	0.13	2,670	0.31
04/11/13	15,666	0	15,666	1100	0.14	2,670	0.35
04/12/13	15,803	0	15,803	1100	0.14	2,670	0.35
04/13/13	15,139	0	15,139	1100	0.14	2,670	0.34
04/14/13	15,373	0	15,373	1100	0.14	2,670	0.34
04/15/13	15,148	0	15,148	1100	0.14	2,670	0.34
04/16/13	15,506	0	15,506	1100	0.14	2,670	0.34
04/17/13	15,649	0	15,649	1100	0.14	2,670	0.35
04/18/13	15,334	0	15,334	1100	0.14	2,670	0.34
04/19/13	15,402	0	15,402	1100	0.14	2,670	0.34
04/20/13	16,975	0	16,975	1100	0.16	2,670	0.38
04/21/13	28,073	0	28,073	1100	0.26	2,670	0.62
04/22/13	5,810	0	5,810	1100	0.05	2,670	0.13
04/23/13	12,162	0	12,162	1100	0.11	2,670	0.27
04/24/13	22,605	0	22,605	1100	0.21	2,670	0.50
04/25/13	16,766	0	16,766	1100	0.15	2,670	0.37
04/26/13	16,552	0	16,552	1100	0.15	2,670	0.37
04/27/13	15,523	0	15,523	1100	0.14	2,670	0.35
04/28/13	21,150	0	21,150	1100	0.19	2,670	0.47
04/29/13	21,030	0	21,030	1100	0.19	2,670	0.47
04/30/13	21,006	0	21,006	1100	0.19	2,670	0.47
05/01/13	17,972	0	17,972	4300	0.64	5,229	0.78
05/02/13	17,972	0	17,972	4300	0.64	5,229	0.78
05/03/13	17,972	0	17,972	4300	0.64	5,229	0.78
05/04/13	21,500	0	21,500	4300	0.77	5,229	0.94
05/05/13	21,500	0	21,500	4300	0.77	5,229	0.94
05/06/13	21,500	0	21,500	4300	0.77	5,229	0.94
05/07/13	21,500	0	21,500	4300	0.77	5,229	0.94
05/08/13	1,973	0	1,973	4300	0.07	5,229	0.09
05/09/13	18,425	0	18,425	4300	0.66	5,229	0.80
05/10/13	23,785	0	23,785	4300	0.85	5,229	1.04
05/11/13	23,785	0	23,785	4300	0.85	5,229	1.04
05/12/13	20,896	0	20,896	4300	0.75	5,229	0.91
05/13/13	23,896	0	23,896	4300	0.85	5,229	1.04
05/14/13	21,137	0	21,137	4300	0.76	5,229	0.92
05/15/13	28,566	0	28,566	4300	1.02	5,229	1.24
05/16/13	26,417	0	26,417	4300	0.94	5,229	1.15
05/17/13	24,665	0	24,665	4300	0.88	5,229	1.07
05/18/13	26,665	0	26,665	4300	0.95	5,229	1.16
05/19/13	25,487	0	25,487	4300	0.91	5,229	1.11
05/20/13	25,487	0	25,487	4300	0.91	5,229	1.11
05/21/13	18,962	0	18,962	4300	0.68	5,229	0.83
05/22/13	30,572	0	30,572	4300	1.09	5,229	1.33
05/23/13	12,110	0	12,110	4300	0.43	5,229	0.53
05/24/13	8,032	0	8,032	4300	0.29	5,229	0.35
05/25/13	8,032	0	8,032	4300	0.29	5,229	0.35
05/26/13	48,261	0	48,261	4300	1.73	5,229	2.10
05/27/13	13,296	0	13,296	4300	0.48	5,229	0.58
05/28/13	13,193	0	13,193	4300	0.47	5,229	0.57
05/29/13	1,005	0	1,005	4300	0.04	5,229	0.04
05/30/13	8,801	0	8,801	4300	0.31	5,229	0.38
05/31/13	10,294	0	10,294	4300	0.37	5,229	0.45
06/01/13	7,409	0	7,409	2900	0.18	3,920	0.24
06/02/13	8,383	0	8,383	2900	0.20	3,920	0.27
06/03/13	11,102	0	11,102	2900	0.27	3,920	0.36
06/04/13	9,117	0	9,117	2900	0.22	3,920	0.30
06/05/13	12,006	0	12,006	2900	0.29	3,920	0.39
06/06/13	6,707	0	6,707	2900	0.16	3,920	0.22
06/07/13	8,149	0	8,149	2900	0.20	3,920	0.27

TABLE 3
Groundwater Remediation System Operation Summary
SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Groundwater Removed from the South-Central and Southeastern Areas (gallons)	Groundwater Removed from the West Side Barrier Area (gallons)	Total Groundwater Removed (gallons)	Influent TPH-g Concentration (µg/L)[1]	TPH-g Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds)[2]	Influent TPH-total (TPH-g, TPH-d, TPH-o) Concentration (µg/L)[1]	TPH-total Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds)[2]
06/08/13	21,535	0	21,535	2900	0.52	3,920	0.70
06/09/13	20,217	0	20,217	2900	0.49	3,920	0.66
06/10/13	23,355	0	23,355	2900	0.56	3,920	0.76
06/11/13	20,215	0	20,215	2900	0.49	3,920	0.66
06/12/13	11,181	0	11,181	2900	0.27	3,920	0.37
06/13/13	20,966	0	20,966	2900	0.51	3,920	0.68
06/14/13	20,889	0	20,889	2900	0.50	3,920	0.68
06/15/13	25,857	0	25,857	2900	0.62	3,920	0.84
06/16/13	15,591	0	15,591	2900	0.38	3,920	0.51
06/17/13	21,105	0	21,105	2900	0.51	3,920	0.69
06/18/13	17,233	0	17,233	2900	0.42	3,920	0.56
06/19/13	35,773	0	35,773	2900	0.86	3,920	1.17
06/20/13	30,493	0	30,493	2900	0.74	3,920	1.00
06/21/13	23,361	0	23,361	2900	0.56	3,920	0.76
06/22/13	27,833	0	27,833	2900	0.67	3,920	0.91
06/23/13	26,906	0	26,906	2900	0.65	3,920	0.88
06/24/13	26,528	0	26,528	2900	0.64	3,920	0.87
06/25/13	18,755	0	18,755	2900	0.45	3,920	0.61
06/26/13	18,143	0	18,143	2900	0.44	3,920	0.59
06/27/13	12,437	0	12,437	2900	0.30	3,920	0.41
06/28/13	16,064	0	16,064	2900	0.39	3,920	0.52
06/29/13	16,164	0	16,164	2900	0.39	3,920	0.53
06/30/13	16,766	0	16,766	2900	0.40	3,920	0.55
Second Quarter 2013 Totals	**1,649,993**	**0**	**1,649,993**	**--**	**39**	**--**	**55**
Cumulative TPH-g Removed Since Implementation of RAP Upgrades[5]					**1,978**		**434**

Notes
1. The TPH-g and TPH-total concentration reflects analytical results for samples collected from the influent of the total fluids extraction (TFE) system that extracts groundwater from the south-central, southeastern, and West Side Barrier areas. Refer to Table 5 for a summary of analytical results for the groundwater samples. For a given period, the most recent analytical result available is used to calculate TPH-g and TPH-total removed.
2. Mass of TPH-g and TPH-total removed (pounds) is based on concentrations of dissolved TPH-g or TPH-total in the most recent TFE system influent samples and the volume of groundwater extracted by TFE.
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-d = total petroleum hydrocarbons quantified as diesel (C13-C22)
TPH-o = total petroleum hydrocarbons quantified as oil (C23-C36)
TPH-total = total petroleum hydrocarbons quantified as gas, diesel, and oil (C4-C36)
µg/L = micrograms per liter

TABLE 4

Extracted Vapor Analytical Results[1]

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	Total Fluids Extraction System Status	ASTM D-1946			EPA TO-3	EPA TO-15 (VOCs)[2]				
		Methane (%v)	Carbon Dioxide (%v)	Oxygen and Argon (%v)	TPH-g (ppmv)	Benzene (ppbv)	Ethylbenzene (ppbv)	Toluene (ppbv)	Xylenes (ppbv)	MTBE (ppbv)
8/3/2007	ON	<0.5	<0.5	22.0	63	650	220	1,100	1,420	55
9/5/2007	OFF	<0.5	<0.5	22.0	9	32	48	140	320	18
10/2/2007	ON	<0.5	<0.5	21.9	27	250	75	430	610	20
11/2/2007	ON	<0.5	<0.5	22.1	5	40	10	74	95	7
2/1/2008	ON	<0.5	<0.5	21.8	100	830	260	2,200	1,850	<50
3/4/2008	ON	<0.5	<0.5	21.7	50	380	98	570	1,250	36
4/8/2008	OFF	<0.5	<0.5	22.2	69	290	110	480	1,040	41
5/23/2008	OFF	<0.5	<0.5	21.8	14	180	24	190	280	23
6/3/2008	OFF	<0.5	<0.5	21.7	30	380	42	400	330	70
7/2/2008	ON	<0.5	<0.5	21.4	49	32	6	34	45	10
8/19/2008	ON	<0.5	1.7	20.8	50	390	63	230	450	40
9/5/2008	ON	<0.5	2.0	21.2	22	130	39	130	340	42
10/7/2008	ON	<0.5	1.43	21.4	10	41	15	54	181	6.8
11/4/2008	ON	<0.5	2.08	21.1	7.5	31	47	190	242	<2.0
3/6/2009	ON	<0.5	<0.5	22.0	83	1,900	180	990	770	240
4/17/2009	ON	<0.5	<0.5	22.2	3.1	140	8	37	68	26
5/29/2009	ON	<0.5	1.08	21.0	130	1,700	640	3,700	3,100	100
8/18/2009	ON	<0.5	0.78	21.7	28	380	37	290	310	33
8/25/2009	ON	<0.5	0.87	20.6	37	500	44	320	293	20
9/18/2009	ON	<0.5	0.37	21.6	11	75	11	39	107	3
10/29/2009	ON	<0.5	1.80	18.2	77	350	45	250	440	4
11/25/2009	ON	<0.5	<0.5	21.1	14	110	12	110	164	11
12/15/2009	OFF	<0.5	<0.5	21.7	7	28	3	20	47	<3.2
2/26/2010	ON	<0.5	0.4	21.2	20	300	18	220	260	21
3/26/2010	ON	<0.5	1.0	20.2	18	380	20	110	90	5
5/4/2010	ON	<0.5	0.4	21.4	13	100	42	170	222	3
6/29/2010	ON	<0.5	0.4	21.3	9	74	13	66	82	<5.0
8/3/2010	ON	<0.5	0.6	20.4	29	210	13	64	85	9
8/31/2010	ON	0.0039[3]	<0.5	21.4	11	72	12	66	87	8
9/14/2010	ON	<0.5	<0.5	21.6	6	63	15	57	84	<3.2
11/2/2010	ON	--	--	--	11	140	<10	31	28	<10
11/17/2010	ON	0.00075	0.4	22.0	--	--	--	--	--	--
12/28/2010	ON	0.0052	0.27	22.0	16	160	37	230	324	4.5
1/14/2011	ON	0.016	0.20	22.0	68	340	34	89	183	<10
2/8/2011	ON	0.026	0.24	21.0	210	3,000	1,700	11,000	7,400	110
3/29/2011	ON	0.013	0.13	20.0	5	170	15	18	41.5	<2.5
4/26/2011	ON	0.0011	0.079	20.0	1.9	16	2.4	8.8	7.7	<1.2
5/17/2011	ON	0.021	0.65	22.0	90	2,600	140	2,200	1,100	220
6/17/2011	ON	0.001	0.20	22.0	3	59	8.1	31	56	<0.25
7/19/2011	ON	0.0056	0.49	22.0	80	1,800	130	2,200	1,000	<31
8/16/2011	ON	0.0026	0.31	22.0	140	3,000	600	4,000	2,330	490
9/20/2011	ON	--	--	--	100	2,100	740.0	2,700	2,040	660.0
11/22/2011	ON	0.070	0.70	20.0	11	150	12.0	67	35	<5.0
12/20/2011	ON	0.020	0.34	22.0	0	110	<25	260	216	<25
1/10/2012	ON	0.010	0.66	20.0	11	150	14	86	160	<12
2/28/2012	ON	0.0067	0.90	20.0	27	140	42	140	224	<25
3/13/2012	ON	0.0044	0.71	20.0	27	440	38	450	241	<25
4/27/2012	ON	0.0290	0.22	21.0	39	540	42	630	299	<25
5/22/2012	ON	0.0100	0.31	20.0	65	590	350	770	2,070	<12
6/19/2012	ON	0.0028	0.41	21.0	17	130	26	150	162	<12
7/27/2012	ON	0.0059	0.40	21.0	13	46	<5	33	78	<5
8/30/2012	ON	0.0049	0.56	21.0	69	150	<25	66	194	<25
9/25/2012	ON	0.0073	0.80	21.0	57	190	19	120	283	<2.5
10/30/2012	ON	0.0099	0.96	21.0	50	380	<50	230	130	<50
12/11/2012	ON	0.0074	0.84	21.0	53	130	17	110	173	<5.0
1/29/2013	ON	0.0028	0.29	22.0	1.4	8.7	<1.2	9.4	9.6	<1.2
2/12/2013	ON	0.0057	0.88	21.0	60	500	<50	440	400	<50
3/19/2013	ON	0.0058	0.80	21.0	77	560	66	490	520	<40
4/16/2013	ON	0.0079	0.74	21.0	53	430	29	240	193	<25
5/14/2013	ON	0.017	1.6	19	280	1700	190	1800	840	<12
6/28/2013	ON	0.0068	<0.010	21	22	190	<25	130	131	<25

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 Results[1]

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs)[2]								
	TPH-g (µg/L)	TPH-d (µg/L)	TPH-o (µg/L)	TPH-total (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
7/11/2007	--	--	--	--	--	4,800	130	890	1,040	690	--	--	--	--
8/7/2007	14,000	--	--	--	11,000	5,400	140	1,100	770	540	--	--	--	--
9/25/2007	12,000	--	--	--	30,000	3,400	310	1,600	2,390	540	--	--	--	--
10/16/2007	8,900	--	--	--	8,400	3,400	94	520	660	390	--	--	--	--
11/2/2007	44,000	--	--	--	6,500	3,200	130	860	1,160	570	--	--	--	--
11/30/2007	6,000	--	--	--	5,200	1,800	48	170	490	450	--	--	--	--
12/21/2007	7,200	--	--	--	4,200	2,100	41	170	430	750	--	--	--	--
1/4/2008	4,300	--	--	--	7,200	3,300	49	300	540	620	--	--	--	--
1/18/2008	11,000	--	--	--	2,200	3,600	140	650	850	620	--	--	--	--
2/1/2008	8,700	--	--	--	5,700	3,600	100	440	930	560	--	--	--	--
3/4/2008	7,200	--	--	--	4,900	3,900	120	510	770	620	--	--	--	--
4/8/2008	8,100	--	--	--	10,000	2,800	96	280	580	640	--	--	--	--
5/6/2008	5,300	--	--	--	2,800	2,900	76	190	328	430	--	--	--	--
6/3/2008	8,400	--	--	--	6,800	3,700	110	450	480	320	--	--	--	--
7/2/2008	9,200	--	--	--	4,300[3]	4,500	75	620	650	400	--	--	--	--
8/19/2008	4,000	--	--	--	6,600	2,600	57	76	215	450	--	--	--	--
9/5/2008	160	--	--	--	<500	<12	<25	<25	<25	<25	--	--	--	--
10/7/2008	<100	--	--	--	<500	0.36 J	<1.0	<1.0	1.59	1.7	--	--	--	--
11/4/2008	12,000	--	--	--	660,000	2,500	140	220	760	160	--	--	--	--
12/4/2008	1,300	--	--	--	1,500	600	8.2	28	73	130	--	--	--	--
1/6/2009	1,500	--	--	--	980	560	23	41	110	320	--	--	--	--
3/6/2009	2,500	--	--	--	1,500	1,100	33	51	114	65	--	--	--	--
4/7/2009	3,100	--	--	--	6,900	1,100	36	230	207	210	--	--	--	--
5/13/2009	690	--	--	--	1,500	120	3.2	14	60	24	--	--	--	--
6/12/2009	150	--	--	--	<500	<0.50	<1.0	<1.0	0.71 J	44	--	--	--	--
7/10/2009	4,500	--	--	--	560	1,500	41	68	175	150	--	--	--	--
8/4/2009	2,000	--	--	--	1,000	1,200	16	18	64	100	--	--	--	--
9/1/2009	4,800	--	--	--	3,500	380	45	25	328	5.4 J	--	--	--	--
10/6/2009	3,900	--	--	--	4,600	3,200	21	15	35	82	--	--	--	--
10/27/2009	1,000	--	--	--	<500	520	4	15	10	180	--	--	--	--
11/3/2009	120	--	--	--	<500	2	0.55 J	0.61 J	3	40	--	--	--	--
11/25/2009	5,700	--	--	--	4,000	3,100	26	13	48	88	--	--	--	--
2/16/2010	8,000	--	--	--	5,900	4,700	110	1,300	800	1,800	--	--	--	--
3/9/2010	7,000	--	--	--	5,900	6,600	110	460	550	410	--	--	--	--
4/20/2010	10,000	--	--	--	11,000	6,000	44	230	174	130	--	--	--	--
5/14/2010	8,500	--	--	--	2,100	3,600	67	380	400	210	--	--	--	--
6/25/2010	4,600	--	--	--	2,600	2,200	61	540	380	170	--	--	--	--
7/20/2010	21,000	--	--	--	21,000	3,400	370	3,000	2,550	2,300	--	--	--	--
8/3/2010	3,400	--	--	--	1,500	1,400	17	140	161	390	--	--	--	--
8/10/2010	5,800	--	--	--	3,400	2,600	40	190	169	140	--	--	--	--
9/14/2010	9,400	--	--	--	10,000	4,900	170	1,100	1,340	380	--	--	--	--
10/12/2010	5,700	--	--	--	1,000	2,200	43	140	138	120	--	--	--	--
11/16/2010	1,100	--	--	--	1,600	290	4	15	78	84	--	--	--	--
12/14/2010	7,100	--	--	--	3,200	2,600	76	200	315	340	--	--	--	--
1/14/2011	7,400	--	--	--	3,500	3,700	56	110	220	280	--	--	--	--
2/8/2011	5,600	--	--	--	3,500	2,400	43	110	190	420	--	--	--	--
3/25/2011	3,100	--	--	--	1,200	1,300	51	92	200	300	--	--	--	--
4/26/2011	1,400	--	--	--	1,200	610	5.8	5.7	20	130	--	--	--	--
5/17/2011	3,300	--	--	--	1,700	3,600	82	180	300	240	--	--	--	--
6/21/2011	1,200	--	--	--	720	860	9.6	31	82	190	2,200	6.6	<0.07	<0.1
7/27/2011	14,000	10,000	44J	--	--[4]	2,800	150	490	2,100	350	2,800	27	<0.07	<0.1
8/26/2011	7,400	--	--	--	57,000	1,400	120	480	1,300	270	1,600	16	<0.07	<0.1
9/23/2011	6,400	--	--	--	2,800	2,800	83.0	160	340	300	1,300	22	<0.07	<0.1
10/25/2011	6,000	--	--	--	2,300	3,000	52	93	200	200	970	20	<0.70	<1.0
11/22/2011	5,900	--	--	--	2,000	3,600	62	140	240	300	2,900	26	<0.07	<0.1
12/20/2011	780	--	--	--	2,000	330	8	14	43	160	1,000	18	<0.07	<0.1
1/10/2012	5,300	--	--	--	1,900	3,400	36	70	170	200	960	26	<0.07	<0.1
2/21/2012	4,900	--	--	--	<13	3,400	19	16	48	120	2,200	21	<0.07	<0.1
3/13/2012	6,100	--	--	--	2,100	2,900	43	79	180	120	1,600	23	<0.07	<0.1
4/27/2012	5,100	--	--	--	2,200	3,800	49	61	150	150	500	38	<0.13	<0.12
5/22/2012	6,800	--	--	--	31,000	2,800	49	140	262	150	690	30	<0.13	<0.12
6/19/2012	5,300	--	--	--	36,000	3,200	45	230	200	220	2,800	33	<0.13	<0.12
7/20/2012	5,600	2,400	210	8,200	--	3,000	71	72	510	170	2,700	26	<0.13	<0.12
8/21/2012	3,600	1,100	140	4,900	--	2,400	26	41	80	110	1,500	22	<0.13	<0.12
9/25/2012	2,100	710	71	2,800	--	1,700	25	35	86	150	690	17	<1.0	<1.0
10/30/2012	2,600	700	74	3,374	--	1,400	15	13	52	54	1,200	14	<0.061	<0.054
11/30/2012	860	8,200	260	9,320	--	1,100	2.4	4.4	12	23	690	<0.038	<0.061	<0.054
12/27/2012	6,200	820	86	7,106	--	2,000	39	76	130	120	1,300	20	<0.061	<0.054
1/15/2013	3,400	14,000	400	17,800	--	800	12	25	130	43	1,200	8.7	<0.061	<0.054
2/12/2013	9,900	3,100	150	13,150	--	2,100	110	440	820	110	330	22	<0.061	<0.054
3/5/2013	3,954	970	80	5,004	--	1,400	21	23	87	63	1,200	15	<0.061	<0.054
3/15/2013	--	--	--	--	--	1,400	25	49	98	74	570	14	<0.061	<0.054
4/16/2013	1,100	1,300	270	2,670	--	370	6	19	56	73	530	17	<0.061	<0.054
5/14/2013	4,300	830	99	5,229	--	2,000	52	98	181	61	270	22	<0.061	<0.054
6/28/2013	2,900	870	150	3,920	--	1,100	18	58	76	92	500	11	<0.061	<0.054

Notes

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

Abbreviations

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

TABLE 6

Remediation Well Vapor Concentrations

SFPP Norwalk Pump Station, Norwalk, California

Remediation Area	Remediation Well ID	Remediation Well Function	4/18/2013 (ppmv as Hexane)[1]	5/22/13 (ppmv as Hexane)[1]	6/20/13 (ppmv as Hexane)[1]
South-Central	MW-SF-1	SVE	0.6	14.3	204
	MW-SF-2	SVE; TFE	1.1	2.75	24
	MW-SF-3	SVE; TFE	67.5	368.3	604
	MW-SF-4	SVE	5.4	15.75	12
	MW-SF-5	SVE	0.4	5.3	0
	MW-SF-6	SVE; TFE	27.3	4.8	444
	MW-SF-9	SVE	14.2	49.55	54
	MW-SF-10	SVE	3	40.1	0
	MW-SF-11	SVE; TFE	--[2]	460	28
	MW-SF-12	SVE; TFE	92.4	4378	1548
	MW-SF-13	SVE; TFE	10.3	102.1	226
	MW-SF-14	SVE; TFE	10	35.55	158
	MW-SF-15	SVE; TFE	12.4	677.5	902
	MW-SF-16	SVE; TFE	73.6	884.2	600
	GMW-9	SVE; TFE	20.5	--	642
	GMW-10	SVE	86.8	--	536
	GMW-22	SVE; TFE	--	--	642
	GMW-24	SVE; TFE	200	1025	1096
	GMW-25	SVE; GWE	200	793.2	1096
	GWR-3	SVE; GWE	320	6400	1968
	VEW-1	SVE	0.1	1.15	0
	VEW-2	SVE	1.4	13.7	0
	MW-O-1	SVE; TFE	--[2]	50.9	88
	MW-O-2	SVE; TFE	2.4	--	36
	GMW-O-11	SVE; TFE	0.2	--	16
	GMW-O-12	SVE	0.2	--	0
	GMW-O-20	SVE; TFE	0.6	--	12
	GMW-O-23	SVE; TFE	2.4	--	856
	MW-18 (MID)	SVE	3.1	50.2	100
	HW-1	SVE	--	--	196
	HW-2	SVE	111.3	932.6	322
Southeastern	GMW-36	SVE; TFE	--	--	32
	GMW-O-15	SVE; TFE	1	4.95	32
	GMW-O-18	SVE; TFE	1	917.8	32

Notes

1. Vapor readings measured in the field with a photoionization detector (PID) calibrated using 50 ppmv of hexane.
2. Condensate was in the conveyance pipe when PID readings were collected.

--- = does not apply or was not measured

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

Abbreviations

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

TABLE 7

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

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
GMW-9	8/8/2008	74.44	28.01	27.96	0.05	---	Envent
	10/16/2008	74.44	28.36	28.35	0.01	---	Envent
	12/17/2008	74.44	27.61	---	---	46.83	Envent
	1/15/2009	74.44	28.91	---	---	45.53	Envent
	3/27/2009	74.44	29.04	---	---	45.40	Envent
	4/21/2009	74.44	28.16	---	---	46.28	Envent
	7/21/2009	74.44	28.31	---	---	46.13	Envent
	5/24/2010	74.44	30.47	---	---	43.97	Blaine Tech
	5/28/2010	74.44	30.35	---	---	44.09	Blaine Tech
	10/4/2010	74.44	30.30	---	---	44.14	Blaine Tech
	1/10/2011	74.44	32.02	---	---	42.42	Blaine Tech
	4/11/2011	74.44	25.41	---	---	49.03	Blaine Tech
	10/10/2011	74.44	28.91	---	---	45.53	Blaine Tech
	4/16/2012	77.16	31.15	---	---	46.01	Blaine Tech
	10/15/2012	77.16	31.82	---	---	45.34	Blaine Tech
	1/14/2013	77.16	31.88	---	---	45.28	Blaine Tech
	4/8/2013	77.16	31.83	--	--	45.33	Blaine Tech
GMW-10	04/30/2007	74.67	---	25.9	---	48.77	Secor
	11/12/2007	74.67	25.02	25.82	0.83	---	Secor
	04/14/2008	74.67	25.38	25.44	0.06	---	Secor
	10/13/2008	74.67	24.16	---	---	50.51	Stantec
	4/20/2009	74.67	24.46	---	---	50.21	Blaine Tech
	10/19/2009	74.67	27.2	---	---	47.47	Blaine Tech
	5/24/2010	74.67	26.72	---	---	47.95	Blaine Tech
	5/28/2010	74.67	26.7	---	---	47.97	Blaine Tech
	10/4/2010	74.67	27.15	---	---	47.52	Blaine Tech
	4/11/2011	74.67	25.21	---	---	49.46	Blaine Tech
	10/10/2011	74.67	27.75	---	---	46.92	Blaine Tech
	4/27/2012	74.67	28.47	---	---	46.2	Blaine Tech
	10/15/2012	74.67	29.15	29.02	0.13	---	Blaine Tech
	4/8/2013	74.67	33.64	28.12	5.52	45.67	Blaine Tech
GMW-22	11/12/2007	74.17	26.45	25.91	0.54	---	Stantec
	8/12/2008	74.17	26.70	---	---	47.47	Envent
	10/31/2008	74.17	28.25	27.04	1.21	---	Envent
	11/4/2008	74.17	26.97	---	---	47.20	Envent
	12/17/2008	74.17	26.65	---	---	47.52	Envent
	1/15/2009	74.17	27.18	---	---	46.99	Envent
	3/27/2009	74.17	27.86	---	---	46.31	Envent
	4/21/2009	74.17	27.30	27.20	0.10	---	Envent
	7/21/2009	74.17	27.70	---	---	46.47	Envent
	11/6/2009	74.17	28.12	---	---	46.05	Kinder Morgan
	9/3/2010	74.17	28.36	25.10	3.26	---	Kinder Morgan
	10/4/2010	74.17	27.65	---	---	46.52	Blaine Tech
	4/11/2011	74.17	26.45	---	---	47.72	Blaine Tech
	10/10/2011	74.17	29.68	---	---	44.49	Blaine Tech
	4/16/2012	77.24	31.15	---	---	46.09	Blaine Tech
	10/15/2012	77.24	31.05	---	---	46.19	Blaine Tech
	4/8/2013	77.24	31.92	---	---	45.32	Blaine Tech
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

TABLE 7

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

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	4/21/2009	74.04	29.91	---	---	44.13	Envent
	7/21/2009	74.04	32.78	---	---	41.26	Envent
	2/4/2010	74.04	29.67	29.40	0.27	---	Kinder Morgan
	6/22/2010	74.04	29.47	---	---	44.57	Blaine Tech
	9/3/2010	74.04	29.90	---	---	44.14	Kinder Morgan
	10/4/2010	74.04	29.50	---	---	44.54	Blaine Tech
	4/11/2011	74.04	28.21	---	---	45.83	Blaine Tech
	10/10/2011	74.04	28.78	---	---	45.26	Blaine Tech
	4/16/2012	77.48	30.49	30.31	0.18	---	Blaine Tech
	10/15/2012	77.48	31.34	---	---	46.14	Blaine Tech
	6/14/2013	77.48	33.35	32.40	0.95	44.13	Blaine Tech
GMW-25	11/12/2007	74.29	27.30	27.25	0.05	---	Stantec
	8/12/2008	74.29	27.81	---	---	46.48	Envent
	10/17/2008	74.29	28.26	---	---	46.03	Envent
	12/18/2008	74.29	29.01	---	---	45.28	Envent
	1/15/2009	74.29	28.62	---	---	45.67	Envent
	3/24/2009	74.29	28.79	---	---	45.50	Envent
	4/21/2009	74.29	28.35	---	---	45.94	Envent
	7/21/2009	74.29	29.80	---	---	44.49	Envent
	10/19/2009	74.29	30.28	---	---	44.01	Blaine Tech
	6/22/2010	74.29	31.64	---	---	42.65	Blaine Tech
	10/4/2010	74.29	29.25	---	---	45.04	Blaine Tech
	4/11/2011	74.29	26.21	---	---	48.08	Blaine Tech
	10/10/2011	74.29	30.02	---	---	44.27	Blaine Tech
	4/16/2012	78.14	30.31	---	---	47.83	Blaine Tech
	10/15/2012	78.14	31.88	---	---	46.26	Blaine Tech
	4/8/2013	78.14	32.11	---	---	46.03	Blaine Tech
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

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
	12/21/2011	74.53	28.17	---	---	46.36	Blaine Tech
	1/9/2012	74.53	27.26	---	---	47.27	Blaine Tech
	2/23/2012	74.53	27.85	---	---	46.68	Blaine Tech
	4/16/2012	74.53	27.34	---	---	47.19	Blaine Tech
	6/15/2012	76.66	33.27	---	---	43.39	Blaine Tech
	7/9/2012	76.66	33.71	---	---	42.95	Blaine Tech
	10/15/2012	76.66	32.11	---	---	44.55	Blaine Tech
	11/29/2012	76.66	33.93	31.68 [1]	2.25 [1]	---	Blaine Tech
	12/26/2012	76.66	34.86	30.36 [1]	4.5 [1]	---	Blaine Tech
	1/14/2013	76.66	34.12	30.42 [1]	3.7 [1]	---	Blaine Tech
	4/10/2013	76.66	32.42	29.75	2.67	44.24	Blaine Tech
GMW-O-11	11/12/2007	74.17	24.40	---	---	49.77	Stantec
	8/15/2008	74.17	29.30	---	---	44.87	Envent
	10/17/2008	74.17	24.45	---	---	49.72	Envent
	12/19/2008	74.17	24.85	---	---	49.32	Envent
	1/15/2009	74.17	26.87	24.38	2.49	---	Envent
	2/24/2009	74.17	24.31	24.21	0.10	---	Envent
	3/27/2009	74.17	31.08	---	---	43.09	Envent
	4/21/2009	74.17	25.36	25.34	0.02	---	Envent
	7/21/2009	74.17	26.18	---	---	47.99	Envent
	11/6/2009	74.17	26.33	26.18	0.15	---	Kinder Morgan
	10/4/2010	74.17	30.00	---	---	44.17	Blaine Tech
	4/13/2011	74.17	24.19	---	---	49.98	Blaine Tech
	10/10/2011	74.17	24.38	---	---	49.79	Blaine Tech
	10/15/2012	74.17	28.12	---	---	46.05	Blaine Tech
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
	4/16/2012	73.49	25.40	---	---	48.09	Blaine Tech
	7/9/2012	73.49	26.96	---	---	46.53	Blaine Tech
	10/15/2012	73.49	25.48	25.44	0.04	---	Blaine Tech
	4/8/2013	73.49	26.60	26.51	0.09	46.89	Blaine Tech
GMW-O-15	11/12/2007	74.23	23.95	23.85	0.10	---	Stantec
	4/14/2008	74.23	23.64	---	---	50.59	Stantec
	8/8/2008	74.23	24.60	---	---	50.59	Envent
	8/11/2008	74.23	24.40	24.34	0.06	---	Stantec
	10/16/2008	74.23	24.53	---	---	49.70	Envent
	12/18/2008	74.23	24.86	---	---	49.37	Envent
	1/2/2009	74.23	24.82	---	---	49.41	Envent
	1/15/2009	74.23	26.01	---	---	48.22	Envent
	2/20/2009	74.23	24.80	---	---	49.43	Envent
	2/23/2009	74.23	24.76	24.74	0.02	---	Blaine Tech
	3/24/2009	74.23	25.55	---	---	48.68	Envent
	4/20/2009	74.23	24.66	24.61	0.05	---	Blaine Tech
	7/17/2009	74.23	25.01	---	---	49.22	Envent
	7/22/2009	74.23	24.99	24.94	0.05	---	Blaine Tech
	10/19/2009	74.23	25.55	25.43	0.12	---	Blaine Tech

TABLE 7

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

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	2/4/2010	74.23	25.50	25.48	0.02	---	Kinder Morgan
	4/16/2010	74.23	23.10	---	---	51.13	Blaine Tech
	5/24/2010	74.23	25.67	---	---	48.56	Blaine Tech
	5/28/2010	74.23	25.35	---	---	48.88	Blaine Tech
	6/22/2010	74.23	25.81	---	---	48.42	Blaine Tech
	10/4/2010	74.23	25.85	25.80	0.05	---	Blaine Tech
	11/23/2010	74.23	53.17	---	---	21.06	Blaine Tech
	12/22/2010	74.23	26.31	---	---	47.92	Blaine Tech
	1/10/2011	74.23	25.97	---	---	48.26	Blaine Tech
	4/12/2011	74.23	22.55	22.53	0.02	---	Blaine Tech
	10/10/2011	74.23	23.79	23.22	0.57	---	Blaine Tech
	12/2/2011	74.23	23.92	23.86	0.06	---	Kinder Morgan
	12/21/2011	74.23	31.13	---	---	43.10	Blaine Tech
	1/9/2012	74.23	27.67	---	---	46.56	Blaine Tech
	2/23/2012	74.23	31.18	---	---	43.05	Blaine Tech
	3/28/2012	74.23	30.30	---	---	43.93	Blaine Tech
	4/16/2012	74.23	26.56	26.51	0.05	---	Blaine Tech
	5/25/2012	74.23	26.64	---	---	47.59	Blaine Tech
	6/15/2012	74.23	26.93	---	---	47.30	Blaine Tech
	7/9/2012	74.23	25.47	---	---	48.76	Blaine Tech
	9/26/2012	74.23	30.64	---	---	43.59	Blaine Tech
	10/15/2012	74.23	31.82	---	---	42.41	Blaine Tech
	12/26/2012	74.23	27.41	---	---	46.82	Blaine Tech
	1/14/2013	74.23	27.62	---	---	46.61	Blaine Tech
	4/26/2013	74.23	27.90	---	---	46.33	Kinder Morgan
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
	4/16/2012	74.36	27.10	---	---	47.26	Blaine Tech
	5/25/2012	74.36	27.31	---	---	47.05	Blaine Tech
	6/15/2012	74.36	35.13	---	---	39.23	Blaine Tech
	7/9/2012	74.36	29.51	---	---	44.85	Blaine Tech
	9/26/2012	74.36	30.83	---	---	43.53	Blaine Tech
	10/15/2012	74.36	29.73	---	---	44.63	Blaine Tech
	12/26/2012	74.36	28.87	---	---	45.49	Blaine Tech
	1/14/2013	74.36	28.92	---	---	45.44	Blaine Tech
	4/10/2013	74.36	28.1	---	---	46.26	Blaine Tech
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

TABLE 7

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

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	3/27/2009	73.32	27.84	---	---	45.48	Envent
	4/21/2009	73.32	28.70	---	---	44.62	Envent
	7/21/2009	73.32	24.10	---	---	49.22	Envent
	11/9/2009	73.32	25.60	25.40	0.20	---	Kinder Morgan
	6/22/2010	73.32	24.76	24.66	0.10	---	Blaine Tech
	10/4/2010	73.32	31.20	31.10	0.10	---	Blaine Tech
	1/10/2011	73.32	26.62	26.48	0.14	---	Blaine Tech
	4/11/2011	73.32	23.82	---	---	49.50	Blaine Tech
	10/10/2011	73.32	24.05	---	---	49.27	Blaine Tech
	1/9/2012	73.32	24.68	---	---	48.64	Blaine Tech
	4/16/2012	73.32	26.18	---	---	47.14	Blaine Tech
	7/9/2012	73.32	32.92	---	---	40.40	Blaine Tech
	10/15/2012	73.32	32.97	32.95	0.02	---	Blaine Tech
	1/14/2013	73.32	32.98	32.93	0.05	---	Blaine Tech
	4/8/2013	73.32	29.63	26.46	3.17	43.69	Blaine Tech
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
	10/15/2012	71.43	32.50	---	---	38.93	Blaine Tech
GMW-O-23	8/14/2007	73.63	23.33	---	---	50.30	Geomatrix
	8/21/2007	73.63	23.31	---	---	50.32	Geomatrix
	8/28/2007	73.63	23.00	---	---	50.63	Stantec
	9/11/2007	73.63	23.42	---	---	50.21	Geomatrix
	10/5/2007	73.63	27.79	---	---	45.84	Geomatrix
	11/2/2007	73.63	25.15	---	---	48.48	Geomatrix
	11/13/2007	73.63	23.90	---	---	49.73	Stantec
	12/28/2007	73.63	24.91	---	---	48.72	Geomatrix
	8/15/2008	73.63	26.28	---	---	47.35	Envent
	10/17/2008	73.63	27.16	---	---	46.47	Envent
	12/19/2008	73.63	27.60	---	---	46.03	Envent
	1/15/2009	73.63	27.54	---	---	46.09	Envent
	2/24/2009	73.63	26.19	---	---	47.44	Envent
	3/27/2009	73.63	23.74	---	---	49.89	Envent
	4/21/2009	73.63	27.30	---	---	46.33	Envent
	11/9/2009	73.63	27.50	---	---	46.13	Kinder Morgan
	6/22/2010	73.63	32.10	---	---	41.53	Blaine Tech
	10/4/2010	73.63	25.92	---	---	47.71	Blaine Tech
	1/10/2011	73.63	27.45	---	---	46.18	Blaine Tech
	4/11/2011	73.63	25.03	---	---	48.60	Blaine Tech
	10/10/2011	73.63	25.25	---	---	48.38	Blaine Tech
	1/9/2012	73.63	25.91	--	--	47.72	Blaine Tech
	4/16/2012	73.63	27.38	---	---	46.25	Blaine Tech
	7/9/2012	73.63	27.41	---	---	46.22	Blaine Tech
	10/15/2012	73.63	26.48	---	---	47.15	Blaine Tech
	1/14/2013	73.63	29.35	---	---	44.28	Blaine Tech
	4/8/2013	73.63	29.81	27.74	2.07	43.82	Blaine Tech
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

TABLE 7

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

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	4/11/2011	73.00	23.90	---	---	49.10	Blaine Tech
	10/10/2011	73.00	24.70	---	---	48.30	Blaine Tech
	4/16/2012	73.05	26.99	---	---	46.06	Blaine Tech
	10/15/2012	73.05	34.21	---	---	38.84	Blaine Tech
	4/10/2013	73.05	27.37	---	---	45.68	Blaine Tech
GMW-SF-10	4/21/2009	75.77	27.1	---	---	48.67	Envent
	10/4/2010	75.77	28.03	---	---	47.74	Blaine Tech
	4/11/2011	75.77	26.80	---	---	48.97	Blaine Tech
	10/10/2011	75.77	27.60	---	---	48.17	Blaine Tech
	4/16/2012	75.77	28.81	---	---	46.96	Blaine Tech
	10/15/2012	75.77	29.88	---	---	45.89	Blaine Tech
	4/8/2013	75.77	Dry	---	---	---	Blaine Tech
GWR-3	11/12/2007	74.93	27.90	---	---	47.03	Stantec
	10/17/2008	74.93	29.88	---	---	45.05	Envent
	12/17/2008	74.93	19.71	---	---	55.22	Envent
	1/15/2009	74.93	29.27	29.26	0.26	---	Envent
	3/27/2009	74.93	27.18	---	---	47.75	Envent
	4/21/2009	74.93	29.97	---	---	44.96	Envent
	7/21/2009	74.93	28.77	---	---	46.16	Envent
	10/4/2010	74.93	30.67	---	---	44.26	Blaine Tech
	4/11/2011	74.93	29.94	---	---	44.99	Blaine Tech
	10/10/2011	74.93	29.22	---	---	45.71	Blaine Tech
	4/16/2012	77.60	29.56	---	---	48.04	Blaine Tech
	10/15/2012	77.60	31.21	---	---	46.39	Blaine Tech
	4/8/2013	77.60	29.21	29.18	0.03	48.39	Blaine Tech
MW-18 (MID)	04/30/2007	75.67	29.77	---	---	45.9	Secor
	11/12/2007	75.67	30.23	---	---	45.44	Secor
	04/14/2008	75.67	30.45	---	---	45.22	Secor
	10/13/2008	75.67	31.15	---	---	44.52	Stantec
	4/20/2009	75.67	31.49	---	---	44.18	Blaine Tech
	10/19/2009	75.67	32.62	---	---	43.05	Blaine Tech
	5/24/2010	75.67	32.26	---	---	43.41	Blaine Tech
	5/28/2010	75.67	32.17	---	---	43.50	Blaine Tech
	10/4/2010	75.67	32.30	---	---	43.37	Blaine Tech
	4/11/2011	75.67	31.28	---	---	44.39	Blaine Tech
	10/10/2011	75.67	31.51	---	---	44.16	Blaine Tech
	4/16/2012	75.67	31.75	---	---	43.92	Blaine Tech
	10/15/2012	75.67	33.41	---	---	42.26	Blaine Tech
	4/8/2013	75.67	30.68	---	---	44.99	Blaine Tech
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

TABLE 7

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

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	4/16/2012	75.48	27.25	---	---	48.23	Blaine Tech
	10/15/2012	75.48	28.94	---	---	46.54	Blaine Tech
	4/8/2013	75.48	28.81	---	---	46.67	Blaine Tech
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
	7/9/2012	71.90	26.53	---	---	45.37	Blaine Tech
	10/15/2012	71.90	26.89	---	---	45.01	Blaine Tech
	1/14/2013	71.90	26.93	---	---	44.97	Blaine Tech
	6/6/2013	71.90	28.99	---	---	42.91	Blaine Tech
MW-SF-1	8/28/2007	78.93	27.94	---	---	50.99	Stantec
	11/12/2007	78.93	28.76	---	---	50.17	Stantec
	2/19/2008	78.93	29.50	---	---	49.43	Stantec
	4/14/2008	78.93	29.16	---	---	49.77	Stantec
	8/11/2008	78.93	29.75	---	---	49.18	Stantec
	10/13/2008	78.93	29.86	---	---	49.07	Stantec
	2/23/2009	78.93	30.00	---	---	48.93	Blaine Tech
	4/20/2009	78.93	29.97	---	---	48.96	Blaine Tech
	7/22/2009	78.93	30.98	---	---	47.95	Blaine Tech
	10/19/2009	78.93	31.11	---	---	47.82	Blaine Tech
	3/15/2010	78.93	31.74	---	---	47.19	Blaine Tech
	5/24/2010	78.93	30.79	---	---	48.14	Blaine Tech
	5/28/2010	78.93	30.57	---	---	48.36	Blaine Tech
	6/22/2010	78.93	30.84	---	---	48.09	Blaine Tech
	7/12/2010	78.93	30.51	---	---	48.42	Blaine Tech
	10/4/2010	78.93	30.88	---	---	48.05	Blaine Tech
	1/10/2011	78.93	32.51	---	---	46.42	Blaine Tech
	4/11/2011	78.93	29.87	---	---	49.06	Blaine Tech
	7/11/2011	78.93	29.84	---	---	49.09	Blaine Tech
	10/10/2011	78.93	29.60	---	---	49.33	Blaine Tech
	1/9/2012	78.93	31.25	---	---	47.68	Blaine Tech
	4/16/2012	78.93	32.59	---	---	46.34	Blaine Tech
	7/9/2012	78.93	31.24	---	---	47.69	Blaine Tech
	10/15/2012	78.93	32.23	---	---	46.70	Blaine Tech
	1/14/2013	78.93	33.88	---	---	45.05	Blaine Tech
	4/8/2013	78.93	33.38	---	---	45.55	Blaine Tech
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

TABLE 7

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

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	1/9/2012	78.53	30.52	---	---	48.01	Blaine Tech
	4/16/2012	78.53	31.28	---	---	47.25	Blaine Tech
	7/9/2012	78.53	33.18	---	---	45.35	Blaine Tech
	10/15/2012	78.53	32.11	---	---	46.42	Blaine Tech
	1/14/2013	78.53	33.59	---	---	44.94	Blaine Tech
	4/8/2013	78.53	33.32	---	---	45.21	Blaine Tech
MW-SF-3	11/12/2007	78.12	29.34	28.28	1.06	---	Stantec
	8/12/2008	78.12	30.30	29.05	1.25	---	Envent
	10/17/2008	78.12	29.45	---	---	48.67	Envent
	12/18/2008	78.12	31.08	30.82	0.26	---	Envent
	1/15/2009	78.12	29.96	29.94	0.02	---	Envent
	3/20/2009	78.12	31.10	---	---	47.02	Envent
	3/24/2009	78.12	27.82	---	---	50.30	Envent
	4/21/2009	78.12	29.51	29.50	0.01	---	Envent
	7/21/2009	78.12	30.07	---	---	48.05	Envent
	11/6/2009	78.12	30.37	30.35	0.02	---	Kinder Morgan
	12/9/2009	78.12	30.53	---	---	48.05	Kinder Morgan
	9/3/2010	78.12	30.97	30.42	0.55	---	Kinder Morgan
	10/4/2010	78.12	30.88	30.30	0.58	---	Blaine Tech
	4/12/2011	78.12	29.44	---	---	48.68	Blaine Tech
	10/10/2011	78.12	30.75	---	---	47.37	Blaine Tech
	10/15/2012	78.12	32.47	---	---	45.65	Blaine Tech
	5/24/2013	78.12	33.35	32.51	0.84	44.77	Blaine Tech
MW-SF-4	8/14/2007	79.38	30.34	28.38	1.96	---	Geomatrix
	8/28/2007	79.38	29.95	28.30	1.65	---	Stantec
	9/11/2007	79.38	29.98	28.43	1.55	---	Geomatrix
	10/5/2007	79.38	30.68	28.85	1.83	---	Geomatrix
	10/12/2007	79.38	30.27	29.96	0.31	---	Geomatrix
	10/19/2007	79.38	30.28	---	---	49.10	Geomatrix
	10/26/2007	79.38	30.52	---	---	48.86	Geomatrix
	11/2/2007	79.38	30.68	---	---	48.70	Geomatrix
	11/12/2007	79.38	29.70	29.69	0.01	---	Stantec
	12/21/2007	79.38	30.69	---	---	48.69	Geomatrix
	2/19/2008	79.38	30.22	---	---	49.16	Stantec
	3/21/2008	79.38	30.07	---	---	49.31	Envent
	4/14/2008	79.38	29.95	---	---	49.43	Stantec
	8/8/2008	79.38	30.51	---	---	48.87	Envent
	8/11/2008	79.38	30.57	---	---	48.81	Stantec
	10/16/2008	79.38	30.77	---	---	48.61	Envent
	1/15/2009	79.38	31.14	---	---	48.24	Envent
	2/20/2009	79.38	30.84	---	---	48.54	Envent
	2/23/2009	79.38	30.96	---	---	48.42	Blaine Tech
	4/20/2009	79.38	30.02	29.94	0.08	---	Blaine Tech
	4/28/2009	79.38	30.78	---	---	48.60	Envent
	7/17/2009	79.38	31.85	---	---	47.53	Envent
	7/22/2009	79.38	31.65	31.61	0.04	---	Blaine Tech
	10/19/2009	79.38	31.93	31.90	0.03	---	Blaine Tech
	3/15/2010	79.38	31.95	31.91	0.04	---	Blaine Tech
	5/24/2010	79.38	31.60	---	---	47.78	Blaine Tech
	5/28/2010	79.38	26.40	---	---	52.98	Blaine Tech
	6/22/2010	79.38	31.63	---	---	47.75	Blaine Tech
	7/12/2010	79.38	31.37	---	---	48.01	Blaine Tech
	10/4/2010	79.38	31.81	---	---	47.57	Blaine Tech
	1/10/2011	79.38	32.99	---	---	46.39	Blaine Tech
	4/11/2011	79.38	30.85	---	---	48.53	Blaine Tech
	7/11/2011	79.38	30.35	---	---	49.03	Blaine Tech

TABLE 7

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

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	1/9/2012	79.38	32.07	---	---	47.31	Blaine Tech
	4/16/2012	79.38	33.35	---	---	46.03	Blaine Tech
	7/9/2012	79.38	32.11	---	---	47.27	Blaine Tech
	10/15/2012	79.38	34.04	---	---	45.34	Blaine Tech
	1/14/2013	79.38	34.52	---	---	44.86	Blaine Tech
	4/8/2013	79.38	Dry	---	---	---	Blaine Tech
MW-SF-5	8/21/2007	79.74	28.36	---	---	51.38	Geomatrix
	8/28/2007	79.74	28.84	---	---	50.90	Stantec
	10/5/2007	79.74	29.50	---	---	50.24	Geomatrix
	11/2/2007	79.74	31.50	---	---	48.24	Geomatrix
	11/12/2007	79.74	29.93	---	---	49.81	Stantec
	12/21/2007	79.74	31.00	---	---	48.74	Geomatrix
	4/14/2008	79.74	30.20	---	---	49.54	Stantec
	8/11/2008	79.74	30.85	---	---	48.89	Stantec
	10/13/2008	79.74	30.93	---	---	48.81	Stantec
	4/20/2009	79.74	30.99	---	---	48.75	Blaine Tech
	5/24/2010	79.74	31.55	---	---	48.19	Blaine Tech
	5/28/2010	79.74	31.44	---	---	48.30	Blaine Tech
	6/22/2010	79.74	31.57	---	---	48.17	Blaine Tech
	10/4/2010	79.74	31.39	---	---	48.35	Blaine Tech
	1/10/2011	79.74	33.80	---	---	45.94	Blaine Tech
	4/11/2011	79.74	31.03	---	---	48.71	Blaine Tech
	10/10/2011	79.74	31.28	---	---	48.46	Blaine Tech
	1/9/2012	79.74	32.12	---	---	47.62	Blaine Tech
	4/16/2012	79.74	33.30	---	---	46.44	Blaine Tech
	7/9/2012	79.74	34.45	---	---	45.29	Blaine Tech
	10/15/2012	79.74	33.28	---	---	46.46	Blaine Tech
	1/14/2013	79.74	33.37	---	---	46.37	Blaine Tech
	4/8/2013	79.74	34.28	---	---	45.46	Blaine Tech
MW-SF-6	11/12/2007	76.80	27.14	---	---	49.66	Stantec
	8/12/2008	76.80	29.82	---	---	46.98	Envent
	10/17/2008	76.80	29.75	---	---	47.05	Envent
	12/18/2008	76.80	30.73	---	---	46.07	Envent
	1/15/2009	76.80	31.35	---	---	45.45	Envent
	3/24/2009	76.80	30.50	---	---	46.30	Envent
	4/21/2009	76.80	28.45	---	---	48.35	Envent
	7/21/2009	76.80	27.22	---	---	49.58	Envent
	11/6/2009	76.80	29.10	---	---	47.70	Kinder Morgan
	12/9/2009	76.80	31.35	---	---	45.45	Kinder Morgan
	10/4/2010	76.80	29.09	---	---	47.71	Blaine Tech
	1/10/2011	76.80	30.87	---	---	45.93	Blaine Tech
	4/11/2011	76.80	28.16	---	---	48.64	Blaine Tech
	10/10/2011	76.80	28.21	---	---	48.59	Blaine Tech
	1/9/2012	76.80	29.03	---	---	47.77	Blaine Tech
	4/16/2012	76.80	29.66	---	---	47.14	Blaine Tech
	7/9/2012	76.80	31.46	---	---	45.34	Blaine Tech
	10/15/2012	76.80	31.44	---	---	45.36	Blaine Tech
	1/14/2013	76.80	31.53	---	---	45.27	Blaine Tech
	4/8/2013	76.80	30.21	28.81	1.40	46.59	Blaine Tech
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

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
	12/21/2007	74.10	24.05	---	---	50.05	Geomatrix
	4/14/2008	74.10	24.23	---	---	49.87	Stantec
	10/13/2008	74.10	24.83	---	---	49.27	Stantec
	4/20/2009	74.10	25.27	---	---	48.83	Blaine Tech
	10/19/2009	74.10	26.45	---	---	47.65	Blaine Tech
	5/24/2010	74.10	25.80	---	---	48.30	Blaine Tech
	5/28/2010	74.10	25.66	---	---	48.44	Blaine Tech
	6/22/2010	74.10	25.84	---	---	48.26	Blaine Tech
	10/4/2010	74.10	26.10	---	---	48.00	Blaine Tech
	1/10/2011	74.10	27.41	---	---	46.69	Blaine Tech
	4/11/2011	74.10	24.16	---	---	49.94	Blaine Tech
	10/10/2011	74.10	25.02	---	---	49.08	Blaine Tech
	1/9/2012	74.10	25.98	---	---	48.12	Blaine Tech
	4/16/2012	74.10	25.92	---	---	48.18	Blaine Tech
	7/9/2012	74.10	26.44	---	---	47.66	Blaine Tech
	4/8/2013	74.10	28.53	---	---	45.57	Blaine Tech
MW-SF-10	10/17/2008	76.53	27.49	---	---	49.04	Envent
	10/19/2009	76.53	28.61	---	---	47.92	Blaine Tech
	10/4/2010	76.53	28.5	28.36	0.14	---	Blaine Tech
	4/11/2011	76.53	27.41	27.37	0.04	---	Blaine Tech
	10/10/2011	76.53	27.6	---	---	48.93	Blaine Tech
	4/16/2012	76.53	28.81	---	---	47.72	Blaine Tech
	10/15/2012	76.53	29.27	---	---	47.26	Blaine Tech
	4/8/2013	76.53	Dry	---	---	---	Blaine Tech
MW-SF-11	8/14/2007	78.56	28.58	28.30	0.28	---	Geomatrix
	8/21/2007	78.56	28.76	28.63	0.13	---	Geomatrix
	8/28/2007	78.56	28.22	---	---	50.34	Stantec
	9/11/2007	78.56	26.90	---	---	51.66	Geomatrix
	10/5/2007	78.56	28.43	---	---	50.13	Geomatrix
	11/2/2007	78.56	29.48	29.38	0.10	---	Geomatrix
	11/12/2007	78.56	29.03	---	---	49.53	Stantec
	8/15/2008	78.56	30.13	---	---	48.43	Envent
	10/17/2008	78.56	30.50	---	---	48.06	Envent
	12/18/2008	78.56	29.92	---	---	48.64	Envent
	1/15/2009	78.56	30.32	---	---	48.24	Envent
	3/24/2009	78.56	31.05	---	---	47.51	Envent
	4/21/2009	78.56	30.03	---	---	48.53	Envent
	7/21/2009	78.56	30.89	---	---	47.67	Envent
	11/9/2009	78.56	31.00	---	---	47.56	Kinder Morgan
	9/3/2010	78.56	31.22	---	---	47.34	Kinder Morgan
	10/4/2010	78.56	30.94	---	---	47.62	Blaine Tech
	4/12/2011	78.56	30.82	---	---	47.74	Blaine Tech
	10/10/2011	78.56	30.10	---	---	48.46	Blaine Tech
	10/15/2012	78.56	33.28	---	---	45.28	Blaine Tech
	4/8/2013	78.56	33.11	---	---	45.45	Blaine Tech
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

TABLE 7

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

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
	3/24/2009	78.07	29.41	---	---	48.66	Envent
	4/21/2009	78.07	29.52	---	---	48.55	Envent
	7/21/2009	78.07	28.58	---	---	49.49	Envent
	11/4/2009	78.07	30.36	---	---	47.71	Kinder Morgan
	2/4/2010	78.07	29.20	---	---	48.87	Kinder Morgan
	10/4/2010	78.07	30.70	---	---	47.37	Blaine Tech
	4/11/2011	78.07	29.47	---	---	48.60	Blaine Tech
	10/10/2011	78.07	26.60	---	---	51.47	Blaine Tech
	4/16/2012	78.07	31.40	---	---	46.67	Blaine Tech
	10/15/2012	78.07	32.12	---	---	45.95	Blaine Tech
MW-SF-13	8/14/2007	73.40	22.98	---	---	50.42	Geomatrix
	8/21/2007	73.40	23.11	---	---	50.29	Geomatrix
	8/28/2007	73.40	22.85	---	---	50.55	Stantec
	9/11/2007	73.40	23.10	---	---	50.30	Geomatrix
	10/5/2007	73.40	28.11	---	---	45.29	Geomatrix
	11/2/2007	73.40	25.43	25.41	0.02	---	Geomatrix
	11/12/2007	73.40	23.70	---	---	49.70	Stantec
	12/21/2007	73.40	24.45	24.42	0.03	---	Geomatrix
	8/15/2008	73.40	27.38	24.11	3.27	---	Envent
	10/17/2008	73.40	27.28	24.33	2.95	---	Envent
	10/21/2008	73.40	27.14	24.26	2.88	---	Envent
	9/3/2010	73.40	27.40	25.71	1.69	---	Kinder Morgan
	12/17/2008	73.40	26.21	24.70	1.51	---	Envent
	1/15/2009	73.40	26.90	24.80	2.10	---	Envent
	3/27/2009	73.40	26.46	25.49	0.97	---	Envent
	4/21/2009	73.40	24.86	24.78	0.08	---	Envent
	7/21/2009	73.40	25.72	25.48	0.24	---	Envent
	11/6/2009	73.40	25.72	---	---	47.68	Kinder Morgan
	2/4/2010	73.40	25.43	25.30	0.13	---	Kinder Morgan
	10/4/2010	73.40	26.95	25.92	1.03	---	Blaine Tech
	4/12/2011	73.40	24.79	24.78	0.01	---	Blaine Tech
	10/10/2011	73.40	26.00	---	---	47.40	Blaine Tech
	4/16/2012	73.40	27.19	---	---	46.21	Blaine Tech
	10/15/2012	73.40	27.01	---	---	46.39	Blaine Tech
	4/8/2013	73.40	27.90	---	---	45.50	Blaine Tech
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
	12/18/2008	78.16	30.62	---	---	47.54	Envent
	1/15/2009	78.16	30.08	---	---	48.08	Envent
	3/24/2009	78.16	29.73	---	---	48.43	Envent
	4/21/2009	78.16	29.61	---	---	48.55	Envent
	7/21/2009	78.16	29.20	---	---	48.96	Envent
	11/6/2009	78.16	30.48	---	---	47.68	Kinder Morgan
	12/9/2009	78.16	30.68	---	---	47.48	Kinder Morgan
	6/22/2010	78.16	26.17	---	---	51.99	Blaine Tech
	10/4/2010	78.16	30.54	---	---	47.62	Blaine Tech
	4/12/2011	78.16	29.55	---	---	48.61	Blaine Tech
	10/10/2011	78.16	29.84	---	---	48.32	Blaine Tech
	10/15/2012	78.16	30.02	---	---	48.14	Blaine Tech
	4/8/2013	78.16	32.75	---	---	45.41	Blaine Tech

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-15	8/14/2007	78.27	27.78	27.75	0.03	---	Geomatrix
	8/21/2007	78.27	27.69	27.65	0.04	---	Geomatrix
	8/28/2007	78.27	27.65	27.61	0.04	---	Stantec
	9/11/2007	78.27	27.62	---	---	50.65	Geomatrix
	10/5/2007	78.27	28.15	---	---	50.12	Geomatrix
	11/2/2007	78.27	30.45	30.20	0.25	---	Geomatrix
	11/12/2007	78.27	28.75	---	---	49.52	Stantec
	8/15/2008	78.27	30.12	29.35	0.77	---	Envent
	10/17/2008	78.27	30.80	29.44	1.36	---	Envent
	10/21/2008	78.27	30.80	29.31	1.49	---	Envent
	12/18/2008	78.27	32.11	30.56	1.55	---	Envent
	1/15/2009	78.27	31.75	29.70	2.05	---	Envent
	3/24/2009	78.27	30.32	29.93	0.39	---	Envent
	4/21/2009	78.27	29.96	29.60	0.36	---	Envent
	7/21/2009	78.27	30.45	---	---	47.82	Envent
	11/4/2009	78.27	31.10	30.45	0.36	---	Kinder Morgan
	12/9/2009	78.27	30.87	---	---	47.40	Kinder Morgan
	10/4/2010	78.27	30.66	30.65	0.01	---	Blaine Tech
	4/12/2011	78.27	30.50	29.40	1.1	---	Blaine Tech
	10/10/2011	78.27	29.60	---	---	48.67	Blaine Tech
	12/2/2011	78.27	31.40	30.05	1.4	---	Blaine Tech
	4/16/2012	78.27	32.48	32.39	0.1	---	Blaine Tech
	10/15/2012	78.27	33.15	---	---	45.12	Blaine Tech
	4/8/2013	78.27	33.90	---	---	44.37	Blaine Tech
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
	10/15/2012	78.21	32.47	---	---	45.74	Blaine Tech
	4/8/2013	78.21	32.97	32.73	0.24	45.24	Blaine Tech

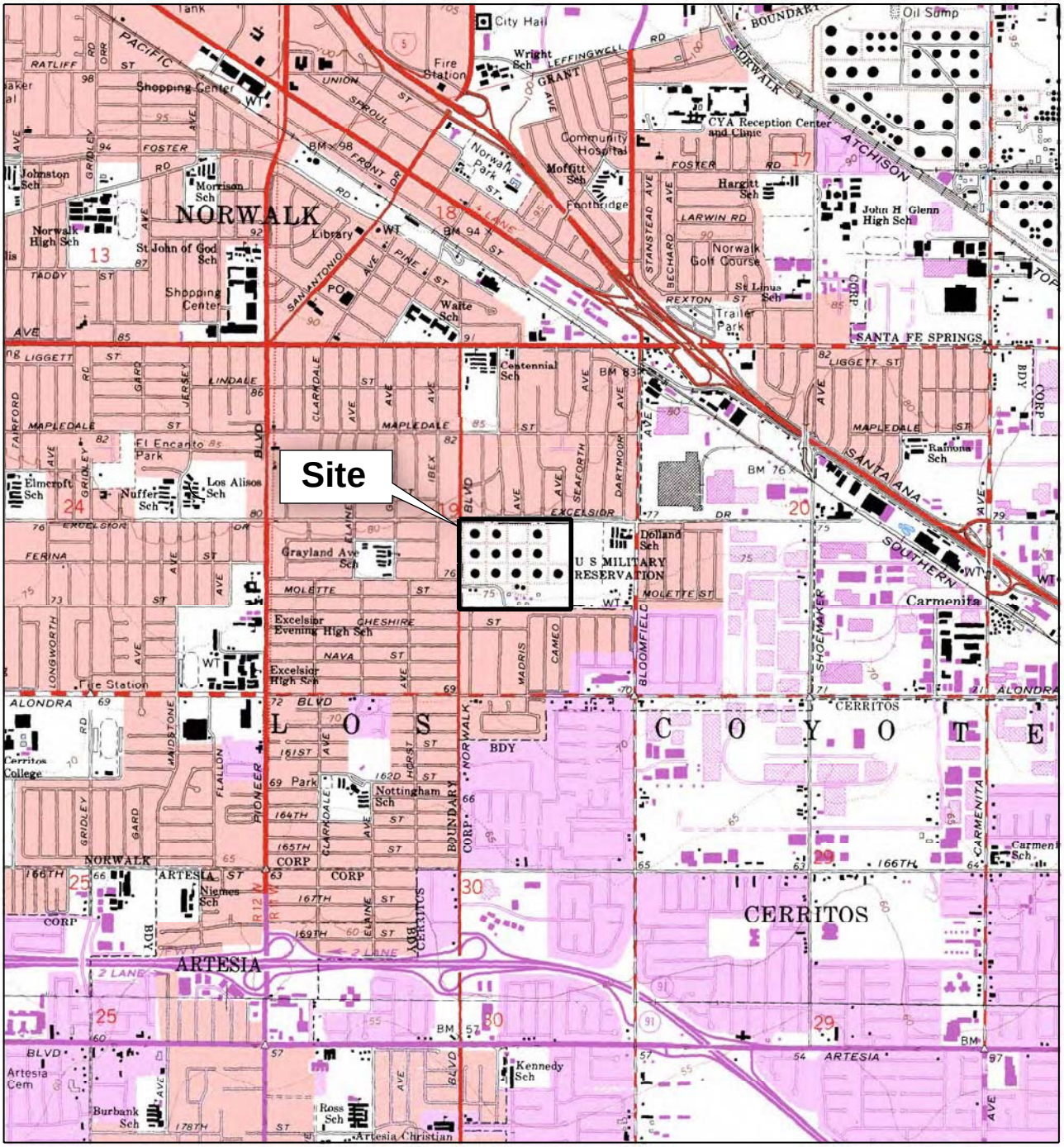
Abbreviations

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

ft btoc = feet below top of casing

--- = not detected or not applicable

Figures



N

Approximate Scale in Feet

0 1200 2400

0 0 0

Approximate Scale in Meters

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.

SITE LOCATION MAP

SFPP Norwalk Pump Station
Norwalk, California

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

CH2MHILL

Figure 1

ES070610212914SCO407609.A1.03 DFSP_sitelocation.ai 7/10

Explanation

- GMW-5 — Existing Groundwater Monitoring Well
- VE-1 — Existing Remediation Well
- KMEP Remediation Piping Layout (above ground and below ground)
- Horizontal Vapor Extraction Well Piping
- Approximate Location of Air Compressor Shed

N

120 60 0 120 Feet

REMEDIATION SYSTEM LAYOUT
SFPP Norwalk Pump Station
Norwalk, California

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

\\CONIAGROUPS\EMS\PROJECTS\NORWALK\MAPFILES\2012\SYSTEMLAYOUTREMEDIATION_SYSTEM_LAYOUT.MXD SWOLFSKI 7/9/2012 1:33:06 PM

Appendix A
Laboratory Analytical Reports

April 24, 2013

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

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

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

Workorder No.: N010021

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on April 17, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Jose Tenorio Jr.
Laboratory Director

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N010021

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.

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: N010021
Project: SFPP - Norwalk Site
Lab ID: N010021-001

Client Sample ID: INF-04-16
Collection Date: 4/16/2013 1:25:00 PM
Matrix: WASTEWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_130420A** QC Batch: **P13VW062** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.068	1.0		µg/L	1	4/20/2013 05:36 PM
1,1,1-Trichloroethane	ND	0.072	1.0		µg/L	1	4/20/2013 05:36 PM
1,1,2,2-Tetrachloroethane	ND	0.10	1.0		µg/L	1	4/20/2013 05:36 PM
1,1,2-Trichloroethane	ND	0.13	1.0		µg/L	1	4/20/2013 05:36 PM
1,1-Dichloroethane	ND	0.062	0.50		µg/L	1	4/20/2013 05:36 PM
1,1-Dichloroethene	ND	0.16	1.0		µg/L	1	4/20/2013 05:36 PM
1,1-Dichloropropene	ND	0.073	1.0		µg/L	1	4/20/2013 05:36 PM
1,2,3-Trichlorobenzene	ND	0.084	1.0		µg/L	1	4/20/2013 05:36 PM
1,2,3-Trichloropropane	ND	0.11	1.0		µg/L	1	4/20/2013 05:36 PM
1,2,4-Trichlorobenzene	ND	0.10	1.0		µg/L	1	4/20/2013 05:36 PM
1,2,4-Trimethylbenzene	10	0.036	1.0		µg/L	1	4/20/2013 05:36 PM
1,2-Dibromo-3-chloropropane	ND	0.34	2.0		µg/L	1	4/20/2013 05:36 PM
1,2-Dibromoethane	ND	0.090	1.0		µg/L	1	4/20/2013 05:36 PM
1,2-Dichlorobenzene	ND	0.048	1.0		µg/L	1	4/20/2013 05:36 PM
1,2-Dichloroethane	0.41	0.044	0.50	J	µg/L	1	4/20/2013 05:36 PM
1,2-Dichloropropane	ND	0.094	1.0		µg/L	1	4/20/2013 05:36 PM
1,3,5-Trimethylbenzene	5.3	0.054	1.0		µg/L	1	4/20/2013 05:36 PM
1,3-Dichlorobenzene	ND	0.061	1.0		µg/L	1	4/20/2013 05:36 PM
1,3-Dichloropropane	ND	0.081	1.0		µg/L	1	4/20/2013 05:36 PM
1,4-Dichlorobenzene	ND	0.078	1.0		µg/L	1	4/20/2013 05:36 PM
2,2-Dichloropropane	ND	0.061	1.0		µg/L	1	4/20/2013 05:36 PM
2-Butanone	ND	0.70	10		µg/L	1	4/20/2013 05:36 PM
2-Chlorotoluene	ND	0.054	1.0		µg/L	1	4/20/2013 05:36 PM
4-Chlorotoluene	ND	0.039	1.0		µg/L	1	4/20/2013 05:36 PM
4-Isopropyltoluene	ND	0.044	1.0		µg/L	1	4/20/2013 05:36 PM
4-Methyl-2-pentanone	ND	0.59	10		µg/L	1	4/20/2013 05:36 PM
Acetone	3.1	1.2	10	J	µg/L	1	4/20/2013 05:36 PM
Acrolein	ND	0.89	20		µg/L	1	4/20/2013 05:36 PM
Acrylonitrile	ND	0.68	20		µg/L	1	4/20/2013 05:36 PM
Benzene	370	0.48	10		µg/L	10	4/20/2013 05:07 PM
Bromobenzene	ND	0.054	1.0		µg/L	1	4/20/2013 05:36 PM
Bromochloromethane	ND	0.15	1.0		µg/L	1	4/20/2013 05:36 PM
Bromodichloromethane	ND	0.048	1.0		µg/L	1	4/20/2013 05:36 PM
Bromoform	ND	0.18	1.0		µg/L	1	4/20/2013 05:36 PM
Bromomethane	ND	0.13	1.0		µg/L	1	4/20/2013 05:36 PM
Carbon disulfide	ND	0.040	1.0		µg/L	1	4/20/2013 05:36 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

CLIENT: CH2M HILL
Lab Order: N010021
Project: SFPP - Norwalk Site
Lab ID: N010021-001

Client Sample ID: INF-04-16
Collection Date: 4/16/2013 1:25:00 PM
Matrix: WASTEWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_130420A** QC Batch: **P13VW062** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
Carbon tetrachloride	ND	0.057	1.0		µg/L	1	4/20/2013 05:36 PM
Chlorobenzene	ND	0.044	1.0		µg/L	1	4/20/2013 05:36 PM
Chloroethane	ND	0.17	1.0		µg/L	1	4/20/2013 05:36 PM
Chloroform	ND	0.048	1.0		µg/L	1	4/20/2013 05:36 PM
Chloromethane	ND	0.043	1.0		µg/L	1	4/20/2013 05:36 PM
cis-1,2-Dichloroethene	ND	0.057	1.0		µg/L	1	4/20/2013 05:36 PM
cis-1,3-Dichloropropene	ND	0.051	1.0		µg/L	1	4/20/2013 05:36 PM
Di-isopropyl ether	17	0.038	1.0		µg/L	1	4/20/2013 05:36 PM
Dibromochloromethane	ND	0.070	1.0		µg/L	1	4/20/2013 05:36 PM
Dibromomethane	ND	0.11	1.0		µg/L	1	4/20/2013 05:36 PM
Dichlorodifluoromethane	ND	0.054	1.0		µg/L	1	4/20/2013 05:36 PM
Ethyl tert-butyl ether	ND	0.061	1.0		µg/L	1	4/20/2013 05:36 PM
Ethylbenzene	5.5	0.036	1.0		µg/L	1	4/20/2013 05:36 PM
Freon-113	ND	0.15	1.0		µg/L	1	4/20/2013 05:36 PM
Hexachlorobutadiene	ND	0.070	1.0		µg/L	1	4/20/2013 05:36 PM
Isopropylbenzene	3.6	0.073	1.0		µg/L	1	4/20/2013 05:36 PM
m,p-Xylene	44	0.14	1.0		µg/L	1	4/20/2013 05:36 PM
Methylene chloride	ND	0.28	2.0		µg/L	1	4/20/2013 05:36 PM
MTBE	73	0.098	1.0		µg/L	1	4/20/2013 05:36 PM
n-Butylbenzene	0.65	0.076	1.0	J	µg/L	1	4/20/2013 05:36 PM
n-Propylbenzene	6.2	0.049	1.0		µg/L	1	4/20/2013 05:36 PM
Naphthalene	19	0.10	1.0		µg/L	1	4/20/2013 05:36 PM
o-Xylene	12	0.042	1.0		µg/L	1	4/20/2013 05:36 PM
sec-Butylbenzene	0.75	0.036	1.0	J	µg/L	1	4/20/2013 05:36 PM
Styrene	ND	0.040	1.0		µg/L	1	4/20/2013 05:36 PM
Tert-amyl methyl ether	ND	0.054	1.0		µg/L	1	4/20/2013 05:36 PM
Tert-Butanol	530	10	50		µg/L	10	4/20/2013 05:07 PM
tert-Butylbenzene	ND	0.040	1.0		µg/L	1	4/20/2013 05:36 PM
Tetrachloroethene	ND	0.12	1.0		µg/L	1	4/20/2013 05:36 PM
Toluene	19	0.034	2.0		µg/L	1	4/20/2013 05:36 PM
trans-1,2-Dichloroethene	ND	0.11	1.0		µg/L	1	4/20/2013 05:36 PM
trans-1,3-Dichloropropene	ND	0.060	1.0		µg/L	1	4/20/2013 05:36 PM
Trichloroethene	ND	0.075	1.0		µg/L	1	4/20/2013 05:36 PM
Trichlorofluoromethane	ND	0.057	1.0		µg/L	1	4/20/2013 05:36 PM
Vinyl chloride	ND	0.082	1.0		µg/L	1	4/20/2013 05:36 PM
Xylenes, Total	57	1.5	2.0		µg/L	1	4/20/2013 05:36 PM

Qualifiers:

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	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
Lab Order: N010021
Project: SFPP - Norwalk Site
Lab ID: N010021-001

Client Sample ID: INF-04-16
Collection Date: 4/16/2013 1:25:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_130420A**	QC Batch: **P13VW062**			PrepDate:			Analyst: **QBM**
Surr: 1,2-Dichloroethane-d4	106	0	72-119		%REC	10	4/20/2013 05:07 PM
Surr: 1,2-Dichloroethane-d4	105	0	72-119		%REC	1	4/20/2013 05:36 PM
Surr: 4-Bromofluorobenzene	104	0	76-119		%REC	1	4/20/2013 05:36 PM
Surr: 4-Bromofluorobenzene	101	0	76-119		%REC	10	4/20/2013 05:07 PM
Surr: Dibromofluoromethane	110	0	85-115		%REC	1	4/20/2013 05:36 PM
Surr: Dibromofluoromethane	107	0	85-115		%REC	10	4/20/2013 05:07 PM
Surr: Toluene-d8	103	0	81-120		%REC	10	4/20/2013 05:07 PM
Surr: Toluene-d8	103	0	81-120		%REC	1	4/20/2013 05:36 PM
TPH EXTRACTABLE BY GC/FID							
	EPA 3510C		**EPA 8015B**				
RunID: **GC1_130419A**	QC Batch: **42726**			PrepDate:	**4/19/2013**		Analyst: **MDM**
TPH-Diesel (C13-C22)	1300	13	50		ug/L	1	4/19/2013 06:12 PM
TPH-Oil (C23-C36)	270	9.6	50		ug/L	1	4/19/2013 06:12 PM
Surr: Octacosane	91.1	0	26-152		%REC	1	4/19/2013 06:12 PM
Surr: p-Terphenyl	120	0	57-132		%REC	1	4/19/2013 06:12 PM
GASOLINE RANGE ORGANICS BY GC/FID							
			EPA 8015B				
RunID: **GC4_130417B**	QC Batch: **E13VW020**			PrepDate:			Analyst: **QBM**
TPH-Gasoline (C4-C12)	1100	8.5	100		µg/L	1	4/17/2013 11:06 AM
Surr: Chlorobenzene - d5	102	0	74-138		%REC	1	4/17/2013 11:06 AM
TOTAL TPH							
	EPA 3510C		**EPA 8015B**				
RunID: **GC1_130419A**	QC Batch: **42726**			PrepDate:	**4/19/2013**		Analyst: **MDM**
Total TPH	2670	13	100		ug/L	1	4/19/2013 05:46 PM

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N010021
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: **MB-42726** SampType: **MBLK** TestCode: **8015_W_FP_** Units: **ug/L** Prep Date: **4/19/2013** RunNo: **88509**
Client ID: **PBW** Batch ID: **42726** TestNo: **EPA 8015B** **EPA 3510C** Analysis Date: **4/19/2013** SeqNo: **1560296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	50									
TPH-Oil (C23-C36)	16.935	50									
Surr: Octacosane	76.426		80.00		95.5	26	152				
Surr: p-Terphenyl	73.840		80.00		92.3	57	132				

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010021
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GSFPP

Sample ID: **E130417LCS1**	SampType: **LCS**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **88470**
Client ID: **LCSW**	Batch ID: **E13VW020**	TestNo: **EPA 8015B**		Analysis Date: **4/17/2013**	SeqNo: **1557903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	982.000	100	1000	0	98.2	67	136				
Surr: Chlorobenzene - d5	49295.000		50000		98.6	74	138				

Sample ID: **E130417MB1**	SampType: **MBLK**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **88470**
Client ID: **PBW**	Batch ID: **E13VW020**	TestNo: **EPA 8015B**		Analysis Date: **4/17/2013**	SeqNo: **1557904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	100									
Surr: Chlorobenzene - d5	52173.000		50000		104	74	138				

Sample ID: **N009987-001AMS**	SampType: **MS**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **88470**
Client ID: **ZZZZZZ**	Batch ID: **E13VW020**	TestNo: **EPA 8015B**		Analysis Date: **4/17/2013**	SeqNo: **1557906**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	992.000	100	1000	0	99.2	67	136				
Surr: Chlorobenzene - d5	50843.000		50000		102	74	138				

Sample ID: **N009987-001AMSD**	SampType: **MSD**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **88470**
Client ID: **ZZZZZZ**	Batch ID: **E13VW020**	TestNo: **EPA 8015B**		Analysis Date: **4/17/2013**	SeqNo: **1557907**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	996.000	100	1000	0	99.6	67	136	992.0	0.402	30	
Surr: Chlorobenzene - d5	50778.000		50000		102	74	138		0	0	

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010021
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: **MB-42726**	SampType: **MBLK**	TestCode: **8015_W_SFP**	Units: **ug/L**	Prep Date: **4/19/2013**	RunNo: **88509**
Client ID: **PBW**	Batch ID: **42726**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **4/19/2013**	SeqNo: **1560298**

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

Qualifiers:

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

Advanced Technology Laboratories, Inc.
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CLIENT: CH2M HILL
Work Order: N010021
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130420LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **88511**
Client ID: **LCSW** Batch ID: **P13VW062** TestNo: **EPA 8260B** Analysis Date: **4/20/2013** SeqNo: **1560118**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.070	1.0	20.00	0	100	81	129				
1,1,1-Trichloroethane	19.150	1.0	20.00	0	95.8	67	132				
1,1,2,2-Tetrachloroethane	19.290	1.0	20.00	0	96.5	63	128				
1,1,2-Trichloroethane	19.830	1.0	20.00	0	99.2	75	125				
1,1-Dichloroethane	19.900	0.50	20.00	0	99.5	69	133				
1,1-Dichloroethene	19.480	1.0	20.00	0	97.4	68	130				
1,1-Dichloropropene	20.700	1.0	20.00	0	104	73	132				
1,2,3-Trichlorobenzene	20.460	1.0	20.00	0	102	67	137				
1,2,3-Trichloropropane	20.070	1.0	20.00	0	100	73	124				
1,2,4-Trichlorobenzene	20.930	1.0	20.00	0	105	66	134				
1,2,4-Trimethylbenzene	20.140	1.0	20.00	0	101	74	132				
1,2-Dibromo-3-chloropropane	19.900	2.0	20.00	0	99.5	50	132				
1,2-Dibromoethane	20.130	1.0	20.00	0	101	80	121				
1,2-Dichlorobenzene	19.090	1.0	20.00	0	95.4	71	122				
1,2-Dichloroethane	19.870	0.50	20.00	0	99.4	69	132				
1,2-Dichloropropane	20.820	1.0	20.00	0	104	75	125				
1,3,5-Trimethylbenzene	20.330	1.0	20.00	0	102	74	131				
1,3-Dichlorobenzene	18.840	1.0	20.00	0	94.2	75	124				
1,3-Dichloropropane	20.230	1.0	20.00	0	101	73	126				
1,4-Dichlorobenzene	18.830	1.0	20.00	0	94.2	74	123				
2,2-Dichloropropane	24.100	1.0	20.00	0	120	69	137				
2-Butanone	341.200	10	200.0	0	171	49	136				S
2-Chlorotoluene	20.240	1.0	20.00	0	101	73	126				
4-Chlorotoluene	19.900	1.0	20.00	0	99.5	74	128				
4-Isopropyltoluene	20.380	1.0	20.00	0	102	73	130				
4-Methyl-2-pentanone	219.740	10	200.0	0	110	58	134				
Acetone	479.220	10	200.0	0	240	40	135				S
Acrolein	208.510	20	200.0	0	104	75	125				
Acrylonitrile	205.140	20	200.0	0	103	75	125				
Benzene	20.090	1.0	20.00	0	100	81	122				

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010021
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130420LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **88511**
Client ID: **LCSW** Batch ID: **P13VW062** TestNo: **EPA 8260B** Analysis Date: **4/20/2013** SeqNo: **1560118**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	19.910	1.0	20.00	0	99.6	76	124				
Bromochloromethane	20.000	1.0	20.00	0	100	65	129				
Bromodichloromethane	19.880	1.0	20.00	0	99.4	76	121				
Bromoform	20.410	1.0	20.00	0	102	69	128				
Bromomethane	21.150	1.0	20.00	0	106	53	141				
Carbon disulfide	19.660	1.0	20.00	0	98.3	75	125				
Carbon tetrachloride	20.280	1.0	20.00	0	101	66	138				
Chlorobenzene	19.440	1.0	20.00	0	97.2	81	122				
Chloroethane	20.780	1.0	20.00	0	104	58	133				
Chloroform	19.790	1.0	20.00	0	99.0	69	128				
Chloromethane	19.680	1.0	20.00	0	98.4	56	131				
cis-1,2-Dichloroethene	19.640	1.0	20.00	0	98.2	72	126				
cis-1,3-Dichloropropene	21.010	1.0	20.00	0	105	69	131				
Di-isopropyl ether	20.910	1.0	20.00	0	105	70	130				
Dibromochloromethane	19.420	1.0	20.00	0	97.1	66	133				
Dibromomethane	20.050	1.0	20.00	0	100	76	125				
Dichlorodifluoromethane	20.620	1.0	20.00	0	103	53	153				
Ethyl tert-butyl ether	20.150	1.0	20.00	0	101	70	130				
Ethylbenzene	19.760	1.0	20.00	0	98.8	73	127				
Freon-113	18.650	1.0	20.00	0	93.3	75	125				
Hexachlorobutadiene	19.960	1.0	20.00	0	99.8	67	131				
Isopropylbenzene	19.850	1.0	20.00	0	99.2	75	127				
m,p-Xylene	40.360	1.0	40.00	0	101	76	128				
Methylene chloride	18.980	2.0	20.00	0	94.9	63	137				
MTBE	19.000	1.0	20.00	0	95.0	65	123				
n-Butylbenzene	20.480	1.0	20.00	0	102	69	137				
n-Propylbenzene	20.120	1.0	20.00	0	101	72	129				
Naphthalene	19.400	1.0	20.00	0	97.0	54	138				
o-Xylene	20.600	1.0	20.00	0	103	80	121				
sec-Butylbenzene	20.290	1.0	20.00	0	101	72	127				

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010021
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130420LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **88511**
Client ID: **LCSW** Batch ID: **P13VW062** TestNo: **EPA 8260B** Analysis Date: **4/20/2013** SeqNo: **1560118**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	20.960	1.0	20.00	0	105	65	134				
Tert-amyl methyl ether	20.080	1.0	20.00	0	100	70	130				
Tert-Butanol	98.200	5.0	100.0	0	98.2	70	130				
tert-Butylbenzene	20.220	1.0	20.00	0	101	70	129				
Tetrachloroethene	19.450	1.0	20.00	0	97.3	66	128				
Toluene	19.830	2.0	20.00	0	99.2	77	122				
trans-1,2-Dichloroethene	19.680	1.0	20.00	0	98.4	63	137				
trans-1,3-Dichloropropene	20.530	1.0	20.00	0	103	59	135				
Trichloroethene	19.240	1.0	20.00	0	96.2	70	127				
Trichlorofluoromethane	19.560	1.0	20.00	0	97.8	57	129				
Vinyl chloride	20.840	1.0	20.00	0	104	50	134				
Xylenes, Total	60.960	2.0	60.00	0	102	75	125				
Surr: 1,2-Dichloroethane-d4	25.460		25.00		102	72	119				
Surr: 4-Bromofluorobenzene	26.430		25.00		106	76	119				
Surr: Dibromofluoromethane	25.540		25.00		102	85	115				
Surr: Toluene-d8	25.680		25.00		103	81	120				

Sample ID: **P130420MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **88511**
Client ID: **PBW** Batch ID: **P13VW062** TestNo: **EPA 8260B** Analysis Date: **4/20/2013** SeqNo: **1560119**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010021
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130420MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **88511**
Client ID: **PBW** Batch ID: **P13VW062** TestNo: **EPA 8260B** Analysis Date: **4/20/2013** SeqNo: **1560119**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Acrolein	ND	20									
Acrylonitrile	ND	20									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010021
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130420MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **88511**
Client ID: **PBW** Batch ID: **P13VW062** TestNo: **EPA 8260B** Analysis Date: **4/20/2013** SeqNo: **1560119**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	2.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010021
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130420MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **88511**
Client ID: **PBW** Batch ID: **P13VW062** TestNo: **EPA 8260B** Analysis Date: **4/20/2013** SeqNo: **1560119**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	25.450		25.00		102	72	119				
Surr: 4-Bromofluorobenzene	25.220		25.00		101	76	119				
Surr: Dibromofluoromethane	25.590		25.00		102	85	115				
Surr: Toluene-d8	25.370		25.00		101	81	120				

Sample ID: **N010022-003AMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **88511**
Client ID: **ZZZZZZ** Batch ID: **P13VW062** TestNo: **EPA 8260B** Analysis Date: **4/20/2013** SeqNo: **1560123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.460	1.0	20.00	0	97.3	81	129				
1,1,1-Trichloroethane	19.120	1.0	20.00	0	95.6	67	132				
1,1,2,2-Tetrachloroethane	19.660	1.0	20.00	0	98.3	63	128				
1,1,2-Trichloroethane	19.010	1.0	20.00	0	95.1	75	125				
1,1-Dichloroethane	19.860	0.50	20.00	0	99.3	69	133				
1,1-Dichloroethene	18.710	1.0	20.00	0	93.6	68	130				
1,1-Dichloropropene	19.500	1.0	20.00	0	97.5	73	132				
1,2,3-Trichlorobenzene	20.780	1.0	20.00	0	104	67	137				
1,2,3-Trichloropropane	20.370	1.0	20.00	0	102	73	124				
1,2,4-Trichlorobenzene	21.270	1.0	20.00	0	106	66	134				
1,2,4-Trimethylbenzene	19.910	1.0	20.00	0	99.6	74	132				
1,2-Dibromo-3-chloropropane	19.910	2.0	20.00	0	99.6	50	132				
1,2-Dibromoethane	20.360	1.0	20.00	0	102	80	121				
1,2-Dichlorobenzene	19.630	1.0	20.00	0	98.2	71	122				
1,2-Dichloroethane	19.960	0.50	20.00	0	99.8	69	132				
1,2-Dichloropropane	20.400	1.0	20.00	0	102	75	125				
1,3,5-Trimethylbenzene	20.030	1.0	20.00	0	100	74	131				
1,3-Dichlorobenzene	19.550	1.0	20.00	0	97.8	75	124				

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010021
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010022-003AMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **88511**
Client ID: **ZZZZZZ** Batch ID: **P13VW062** TestNo: **EPA 8260B** Analysis Date: **4/20/2013** SeqNo: **1560123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	19.640	1.0	20.00	0	98.2	73	126				
1,4-Dichlorobenzene	19.600	1.0	20.00	0	98.0	74	123				
2,2-Dichloropropane	23.730	1.0	20.00	0	119	69	137				
2-Butanone	194.240	10	200.0	0	97.1	49	136				
2-Chlorotoluene	19.970	1.0	20.00	0	99.8	73	126				
4-Chlorotoluene	19.880	1.0	20.00	0	99.4	74	128				
4-Isopropyltoluene	20.050	1.0	20.00	0	100	73	130				
4-Methyl-2-pentanone	210.520	10	200.0	0	105	58	134				
Acetone	183.250	10	200.0	0	91.6	40	135				
Acrolein	201.900	20	200.0	0	101	75	125				
Acrylonitrile	199.710	20	200.0	0	99.9	75	125				
Benzene	19.300	1.0	20.00	0	96.5	81	122				
Bromobenzene	20.150	1.0	20.00	0	101	76	124				
Bromochloromethane	19.640	1.0	20.00	0	98.2	65	129				
Bromodichloromethane	19.810	1.0	20.00	0	99.0	76	121				
Bromoform	20.550	1.0	20.00	0	103	69	128				
Bromomethane	18.870	1.0	20.00	0	94.4	53	141				
Carbon disulfide	19.020	1.0	20.00	0	95.1	75	125				
Carbon tetrachloride	19.970	1.0	20.00	0	99.8	66	138				
Chlorobenzene	19.530	1.0	20.00	0	97.6	81	122				
Chloroethane	19.340	1.0	20.00	0	96.7	58	133				
Chloroform	19.830	1.0	20.00	0	99.2	69	128				
Chloromethane	18.700	1.0	20.00	0	93.5	56	131				
cis-1,2-Dichloroethene	19.280	1.0	20.00	0	96.4	72	126				
cis-1,3-Dichloropropene	20.220	1.0	20.00	0	101	69	131				
Di-isopropyl ether	20.160	1.0	20.00	0	101	70	130				
Dibromochloromethane	19.200	1.0	20.00	0	96.0	66	133				
Dibromomethane	19.670	1.0	20.00	0	98.4	76	125				
Dichlorodifluoromethane	19.440	1.0	20.00	0	97.2	53	153				
Ethyl tert-butyl ether	20.260	1.0	20.00	0	101	70	130				

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010021
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010022-003AMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **88511**
Client ID: **ZZZZZZ** Batch ID: **P13VW062** TestNo: **EPA 8260B** Analysis Date: **4/20/2013** SeqNo: **1560123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	19.260	1.0	20.00	0	96.3	73	127				
Freon-113	18.780	1.0	20.00	0	93.9	75	125				
Hexachlorobutadiene	20.320	1.0	20.00	0	102	67	131				
Isopropylbenzene	19.990	1.0	20.00	0	100	75	127				
m,p-Xylene	39.790	1.0	40.00	0	99.5	76	128				
Methylene chloride	18.680	2.0	20.00	0	93.4	63	137				
MTBE	19.150	1.0	20.00	0	95.8	65	123				
n-Butylbenzene	20.110	1.0	20.00	0	101	69	137				
n-Propylbenzene	19.910	1.0	20.00	0	99.6	72	129				
Naphthalene	19.300	1.0	20.00	0	96.5	54	138				
o-Xylene	19.930	1.0	20.00	0	99.7	80	121				
sec-Butylbenzene	19.910	1.0	20.00	0	99.6	72	127				
Styrene	18.190	1.0	20.00	0	91.0	65	134				
Tert-amyl methyl ether	19.790	1.0	20.00	0	99.0	70	130				
Tert-Butanol	101.340	5.0	100.0	0	101	70	130				
tert-Butylbenzene	20.350	1.0	20.00	0	102	70	129				
Tetrachloroethene	19.030	1.0	20.00	0	95.2	66	128				
Toluene	20.050	2.0	20.00	0	100	77	122				
trans-1,2-Dichloroethene	20.060	1.0	20.00	0	100	63	137				
trans-1,3-Dichloropropene	20.220	1.0	20.00	0	101	59	135				
Trichloroethene	19.450	1.0	20.00	0	97.3	70	127				
Trichlorofluoromethane	19.180	1.0	20.00	0	95.9	57	129				
Vinyl chloride	18.970	1.0	20.00	0	94.8	50	134				
Xylenes, Total	59.720	2.0	60.00	0	99.5	75	125				
Surr: 1,2-Dichloroethane-d4	25.920		25.00		104	72	119				
Surr: 4-Bromofluorobenzene	25.840		25.00		103	76	119				
Surr: Dibromofluoromethane	25.730		25.00		103	85	115				
Surr: Toluene-d8	25.880		25.00		104	81	120				

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010021
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010022-003AMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **88511**
Client ID: **ZZZZZZ** Batch ID: **P13VW062** TestNo: **EPA 8260B** Analysis Date: **4/20/2013** SeqNo: **1560124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.880	1.0	20.00	0	99.4	81	129	19.46	2.14	20	
1,1,1-Trichloroethane	19.340	1.0	20.00	0	96.7	67	132	19.12	1.14	20	
1,1,2,2-Tetrachloroethane	20.230	1.0	20.00	0	101	63	128	19.66	2.86	20	
1,1,2-Trichloroethane	19.710	1.0	20.00	0	98.6	75	125	19.01	3.62	20	
1,1-Dichloroethane	20.010	0.50	20.00	0	100	69	133	19.86	0.752	20	
1,1-Dichloroethene	18.880	1.0	20.00	0	94.4	68	130	18.71	0.904	20	
1,1-Dichloropropene	20.480	1.0	20.00	0	102	73	132	19.50	4.90	20	
1,2,3-Trichlorobenzene	20.870	1.0	20.00	0	104	67	137	20.78	0.432	20	
1,2,3-Trichloropropane	19.860	1.0	20.00	0	99.3	73	124	20.37	2.54	20	
1,2,4-Trichlorobenzene	21.100	1.0	20.00	0	106	66	134	21.27	0.802	20	
1,2,4-Trimethylbenzene	19.950	1.0	20.00	0	99.8	74	132	19.91	0.201	20	
1,2-Dibromo-3-chloropropane	19.340	2.0	20.00	0	96.7	50	132	19.91	2.90	20	
1,2-Dibromoethane	20.230	1.0	20.00	0	101	80	121	20.36	0.641	20	
1,2-Dichlorobenzene	20.140	1.0	20.00	0	101	71	122	19.63	2.56	20	
1,2-Dichloroethane	20.260	0.50	20.00	0	101	69	132	19.96	1.49	20	
1,2-Dichloropropane	21.190	1.0	20.00	0	106	75	125	20.40	3.80	20	
1,3,5-Trimethylbenzene	20.530	1.0	20.00	0	103	74	131	20.03	2.47	20	
1,3-Dichlorobenzene	19.830	1.0	20.00	0	99.2	75	124	19.55	1.42	20	
1,3-Dichloropropane	20.060	1.0	20.00	0	100	73	126	19.64	2.12	20	
1,4-Dichlorobenzene	19.450	1.0	20.00	0	97.3	74	123	19.60	0.768	20	
2,2-Dichloropropane	23.430	1.0	20.00	0	117	69	137	23.73	1.27	20	
2-Butanone	192.490	10	200.0	0	96.2	49	136	194.2	0.905	20	
2-Chlorotoluene	20.490	1.0	20.00	0	102	73	126	19.97	2.57	20	
4-Chlorotoluene	20.230	1.0	20.00	0	101	74	128	19.88	1.75	20	
4-Isopropyltoluene	20.580	1.0	20.00	0	103	73	130	20.05	2.61	20	
4-Methyl-2-pentanone	214.460	10	200.0	0	107	58	134	210.5	1.85	20	
Acetone	175.630	10	200.0	0	87.8	40	135	183.2	4.25	20	
Acrolein	193.580	20	200.0	0	96.8	75	125	201.9	4.21	20	
Acrylonitrile	207.660	20	200.0	0	104	75	125	199.7	3.90	20	
Benzene	19.700	1.0	20.00	0	98.5	81	122	19.30	2.05	20	

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010021
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010022-003AMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **88511**
Client ID: **ZZZZZZ** Batch ID: **P13VW062** TestNo: **EPA 8260B** Analysis Date: **4/20/2013** SeqNo: **1560124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	20.460	1.0	20.00	0	102	76	124	20.15	1.53	20	
Bromochloromethane	20.520	1.0	20.00	0	103	65	129	19.64	4.38	20	
Bromodichloromethane	20.490	1.0	20.00	0	102	76	121	19.81	3.37	20	
Bromoform	20.970	1.0	20.00	0	105	69	128	20.55	2.02	20	
Bromomethane	19.820	1.0	20.00	0	99.1	53	141	18.87	4.91	20	
Carbon disulfide	19.310	1.0	20.00	0	96.6	75	125	19.02	1.51	20	
Carbon tetrachloride	19.680	1.0	20.00	0	98.4	66	138	19.97	1.46	20	
Chlorobenzene	19.800	1.0	20.00	0	99.0	81	122	19.53	1.37	20	
Chloroethane	19.540	1.0	20.00	0	97.7	58	133	19.34	1.03	20	
Chloroform	19.650	1.0	20.00	0	98.2	69	128	19.83	0.912	20	
Chloromethane	20.490	1.0	20.00	0	102	56	131	18.70	9.13	20	
cis-1,2-Dichloroethene	19.490	1.0	20.00	0	97.5	72	126	19.28	1.08	20	
cis-1,3-Dichloropropene	21.120	1.0	20.00	0	106	69	131	20.22	4.35	20	
Di-isopropyl ether	20.760	1.0	20.00	0	104	70	130	20.16	2.93	20	
Dibromochloromethane	19.500	1.0	20.00	0	97.5	66	133	19.20	1.55	20	
Dibromomethane	20.380	1.0	20.00	0	102	76	125	19.67	3.55	20	
Dichlorodifluoromethane	19.930	1.0	20.00	0	99.7	53	153	19.44	2.49	20	
Ethyl tert-butyl ether	20.460	1.0	20.00	0	102	70	130	20.26	0.982	20	
Ethylbenzene	19.770	1.0	20.00	0	98.8	73	127	19.26	2.61	20	
Freon-113	18.620	1.0	20.00	0	93.1	75	125	18.78	0.856	20	
Hexachlorobutadiene	18.800	1.0	20.00	0	94.0	67	131	20.32	7.77	20	
Isopropylbenzene	20.520	1.0	20.00	0	103	75	127	19.99	2.62	20	
m,p-Xylene	40.680	1.0	40.00	0	102	76	128	39.79	2.21	20	
Methylene chloride	18.650	2.0	20.00	0	93.3	63	137	18.68	0.161	20	
MTBE	19.170	1.0	20.00	0	95.9	65	123	19.15	0.104	20	
n-Butylbenzene	20.000	1.0	20.00	0	100	69	137	20.11	0.548	20	
n-Propylbenzene	20.210	1.0	20.00	0	101	72	129	19.91	1.50	20	
Naphthalene	19.540	1.0	20.00	0	97.7	54	138	19.30	1.24	20	
o-Xylene	20.330	1.0	20.00	0	102	80	121	19.93	1.99	20	
sec-Butylbenzene	20.130	1.0	20.00	0	101	72	127	19.91	1.10	20	

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010021
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010022-003AMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **88511**
Client ID: **ZZZZZZ** Batch ID: **P13VW062** TestNo: **EPA 8260B** Analysis Date: **4/20/2013** SeqNo: **1560124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	18.560	1.0	20.00	0	92.8	65	134	18.19	2.01	20	
Tert-amyl methyl ether	20.110	1.0	20.00	0	101	70	130	19.79	1.60	20	
Tert-Butanol	99.410	5.0	100.0	0	99.4	70	130	101.3	1.92	20	
tert-Butylbenzene	20.460	1.0	20.00	0	102	70	129	20.35	0.539	20	
Tetrachloroethene	19.570	1.0	20.00	0	97.9	66	128	19.03	2.80	20	
Toluene	20.140	2.0	20.00	0	101	77	122	20.05	0.448	20	
trans-1,2-Dichloroethene	19.020	1.0	20.00	0	95.1	63	137	20.06	5.32	20	
trans-1,3-Dichloropropene	20.370	1.0	20.00	0	102	59	135	20.22	0.739	20	
Trichloroethene	19.730	1.0	20.00	0	98.6	70	127	19.45	1.43	20	
Trichlorofluoromethane	19.850	1.0	20.00	0	99.2	57	129	19.18	3.43	20	
Vinyl chloride	20.170	1.0	20.00	0	101	50	134	18.97	6.13	20	
Xylenes, Total	61.010	2.0	60.00	0	102	75	125	59.72	2.14	20	
Surr: 1,2-Dichloroethane-d4	24.910		25.00		99.6	72	119		0		
Surr: 4-Bromofluorobenzene	25.620		25.00		102	76	119		0		
Surr: Dibromofluoromethane	25.750		25.00		103	85	115		0		
Surr: Toluene-d8	25.710		25.00		103	81	120		0		

Qualifiers:

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

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: 4/16/13
PAGE: 1 OF 1

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

CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site
PROJECT CONTACT: James Dye
SAMPLER(S): (SIGNATURE)
P.O. NO.:
QUOTE NO.:
LAB USE ONLY: ☐☐-☐☐☐☐

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL __/__/__

SPECIAL INSTRUCTIONS:
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - g, TPH-d, and TPH-oil (8015M)	Full VOC+ Oxygenates List (8260B)	Comments
	INF- 04-16	Influent	4-16-13	1325	WW	8	X	X	N010021-1

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	[signature] Joe Arreo	4/16/13	1400
[signature] Joe Arreo	C. [signature]	4/16/13	1435
	MBCARTIN [signature]	4/17/13	0948

Revised: 07/19/2012

4.8°C ICE IR#1

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:	4/17/2013	Workorder:	N010021
Rep sample Temp (Deg C):	4.8	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Ontrac		
Last 4 digits of Tracking No.:	0352	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments:

Checklist Completed By: MBC

Reviewed By: 

Advanced Technology Laboratories, Inc.

WORK ORDER Summary

17-Apr-13

WorkOrder: N010021

Client ID: CH2HI01

Project: SFPP - Norwalk Site **QC Level:** RTNE **Date Received:** 4/17/2013

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

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N010021-001A	INF-04-16	4/16/2013 1:25:00 PM	4/24/2013	Wastewater	EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	☐	☐	☐	WW
			4/24/2013		EPA 8015B	TPH EXTRACTABLE BY GC/FID	☐	☐	☐	WW
			4/24/2013		EPA 8015B	Total TPH	☐	☐	☐	WW
N010021-001B			4/24/2013		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WV
N010021-001C			4/24/2013		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WV
N010021-002A	FOLDER		4/24/2013		Folder	Folder	☐	☐	☐	LAB

OnTrac
On Time Delivery For Less

800.334.5000
ontrac.com

Waybill

1a. OnTrac Account Number

Tracking Number
B10290520352

1b. Date
M M D D Y Y

Pre-Print Number

2. FROM (Company)
ENVIRO TREATMENT & TECHNOLOGY*

Street Address
3275 WALNUT AVE Suite

City
SIGNAL HILL

State CA ZIP Code 90755 Phone Number 562-989-4045

PLEASE PRINT IN BLOCK LETTERS WITH BLUE OR BLACK INK ONLY

3. TO (Company) WE CANNOT DELIVER TO PO. BOXES OR PO. ZIP CODES
ATL-LAS VEGAS

Street Address
3151 W POST ROAD

Suite

City
LAS VEGAS

State NV ZIP Code 89118 Phone Number 702-307-2659

Recipient's Name
MARLON CARTIN

4. Shipper's Reference Number
CH2M HILL-NORWALK

Recipient Copy

5. WEIGHT
SUBJECT TO VERIFICATION
☐ 8 oz. Letter or → LBS

6. SERVICE LEVEL
COMMITMENT TIMES MAY VARY
☐ Sunrise
NEXT BUSINESS MORNING
Default service if none selected
☑ Sunrise Gold
EARLY NEXT BUSINESS MORNING
Please attach a Sunrise Gold sticker
☐ Palletized Freight
NEXT BUSINESS DAY
300 lbs. minimum charge

7. SERVICE OPTIONS
ADDITIONAL CHARGES MAY APPLY
☑ Signature Required
☐ Saturday Delivery
AVAILABLE IN SELECT ZIP CODES
Please attach a Saturday Delivery sticker
☐ Hold for Pickup
AT DESTINATION'S NEAREST FACILITY
Photo ID required at pickup

8. COLLECT ON DELIVERY
$10,000 LIMIT. PLEASE ATTACH COD TAG. ADDITIONAL CHARGE APPLIES.
☐ SECURED PAYMENT
Money Order or Certified Check
☐ UNSECURED PAYMENT
Company or Personal Check
→ $

9. DECLARED VALUE
ADDITIONAL CHARGE APPLIES. LIABILITY LIMITED TO $100 UNLESS DECLARED. $25,000 LIABILITY LIMIT. SHIPMENTS WITH A DECLARED VALUE REQUIRE A DELIVERY SIGNATURE.
$ [redacted] .00

10. PAYMENT SHIPPER BILLED IF NONE SELECTED
☐ Shipper ☑ Other Account
[redacted]

11a. Shipper's Name
FRASI

OnTrac Use: Driver Number / PU Time / Initials
[redacted]
DY H M M A/P

11b. Shipper's Signature
BY USING THIS [illegible] AGREE TO THE TERMS & CONDITIONS SET FORTH ON BACK OF THE SHIPPER COPY.

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: 4/16/13

PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh	CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site
ADDRESS: 1100 Town & Country Road	PROJECT CONTACT: James Dye
CITY: Orange, CA 92868	SAMPLER(S): (SIGNATURE)
TEL: 714-560-4802 FAX: 714-560-4601 E-MAIL: james_dye@kindermorgan.com	P.O. NO.: / QUOTE NO.: / LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TPH - g, TPH-d, and TPH-oil (8015M)	Full VOC+ Oxygenates List (8260B)	Comments
	INF- 04-16	Influent	4-16-13	1325	WW	8	X	X	NO10021-1

Relinquished by: (Signature)	Received by: (Signature)	Date: 4/16/13	Time: 1400
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/16/13	Time: 1435
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 07/19/2012

April 24, 2013

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

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

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

Workorder No.: N010023

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on April 17, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

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

Sincerely,

Jose Tenorio Jr.
Laboratory Director

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

Advanced Technology Laboratories, Inc. **Date:** *24-Apr-13*

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N010023

CASE NARRATIVE

Subcontracted Analyses:

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

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

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

CHAIN OF CUSTODY RECORD

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

DATE: 4/16/13
PAGE: 1 OF 1

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

CLIENT PROJECT NAME / NUMBER: **SFPP - Norwalk Site**
PROJECT CONTACT: **James Dye**
SAMPLER(S): (SIGNATURE)

P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TO-15	TO-3 (TPH-g)	ASTM-1946 (O2/Argon, CO2, CH4)	Comments
	VINF-04-16	Influent Vapor (from header)	4/16/13	1545	Air	4	X	X	X	Monthly sample NO10023-1

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

Received by: (Signature) Date: 4/16/13 Time: 1400
Received by: (Signature) Date: 4/16/13 Time: 1435
Received by: (Signature) MARTIN Date: 4/17/13 Time: 0948

4.8 °C / IR#1

Revised: 04/27/2011

OnTrac
On Time Delivery For Less

800.334.5000
ontrac.com

Waybill

1a. OnTrac Account Number

Tracking Number
B10290520352

1b. Date
8 4 9 8 Y 3

Pre-Print Number

2. FROM (Company)
ENVIRO TREATMENT & TECHNOLOGY*

Street Address
3275 WALNUT AVE Suite

City
SIGNAL HILL

State ZIP Code Phone Number
CA 90755 5 6 2 4 8 9 4 0 4 5

PLEASE PRINT IN BLOCK LETTERS WITH BLUE OR BLACK INK ONLY

3. TO (Company) WE CANNOT DELIVER TO PO. BOXES OR ZIP CODES
ATL-LAS VEGAS

Street Address
3151 W POST ROAD

Suite City
LAS VEGAS

State ZIP Code Phone Number
NV 89118 7 0 2 3 0 7 2 6 5 9

Recipient's Name
MARLON CARTIN

4. Shipper's Reference Number
CHINO HILL-NORWALK

Recipient Copy

5. WEIGHT
SUBJECT TO VERIFICATION
8 oz. Letter or
1 # 8

6. SERVICE LEVEL
COMMITMENT TIMES MAY VARY
Sunrise
NEXT BUSINESS MORNING
Default service if none selected
✓ Sunrise Gold
EARLY NEXT BUSINESS MORNING
Please attach a Sunrise Gold sticker
Palletized Freight
NEXT BUSINESS DAY
*Call for minimum charge

7. SERVICE OPTIONS
ADDITIONAL CHARGES MAY APPLY
✓ Signature Required
Saturday Delivery
AVAILABLE IN SELECT ZIP CODES
Please attach a Saturday Delivery sticker
Hold for Pickup
AT DESTINATION'S NEAREST FACILITY
Please fill in location at pickup

8. COLLECT ON DELIVERY
$10,000 LIMIT. PLEASE ATTACH COD TAG. ADDITIONAL CHARGE APPLIES
SECURED PAYMENT → $
Money Order or Certified Check
UNSECURED PAYMENT →
Company or Personal Check

9. DECLARED VALUE
ADDITIONAL CHARGE APPLIES. LIABILITY LIMITED TO $100 UNLESS DECLARED. $25,000 LIABILITY LIMIT. SHIPMENTS WITH A DECLARED VALUE REQUIRE A DELIVERY SIGNATURE
$ .00

10. PAYMENT SHIPPER BILLED IF NONE SELECTED
Shipper ✓ Other Account

11a. Shipper's Name
F DAWA

OnTrac Use: Driver Number / PU Time / Initials

11b. Shipper's Signature

Advanced Technology Laboratories, Inc.

WORK ORDER Summary

17-Apr-13

WorkOrder: N010023

Client ID: CH2HI01

Project: SFPP - Norwalk Site **QC Level:** RTNE **Date Received:** 4/17/2013

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

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N010023-001A	VINF-04-16	4/16/2013 3:45:00 PM	4/24/2013	Air	EPA TO15	SIM Mode	☐	☐	☑	SUB
			4/24/2013		EPA TO3	VOCs by GCMS	☐	☐	☑	SUB
N010023-001B			4/24/2013		ASTM D1946	VOCs by GCMS	☐	☐	☑	SUB
N010023-002A	FOLDER		4/24/2013		Folder	Folder	☐	☐	☐	LAB

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: James Dye

17-Apr-13

				Requested Tests		
Sample ID	**Matrix**	**Date Collected**	**Bottle Type**	**ASTM D1946**		
N010023-001B / VINF-04-16	Air	4/16/2013 3:45:00 PM	BAG	1		

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

Please use PO#:N010023 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by: 5 day TAT

Please analyze for O2, Argon, CO2, CH4 by ASTM 1964.

		Date/Time		Date/Time
Relinquished by:	MBCARTIN	4/17/13@0900	**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:

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

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

Field Sampler: James Dye

17-Apr-13

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA TO15	**EPA TO3**	
N010023-001A / VINF-04-16	Air	4/16/2013 3:45:00 PM	BAG	1	1	

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

Please use PO#: N010023 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by: 5 Day

		Date/Time		Date/Time
Relinquished by:	MBEAVOTIN [signature]	4/17/13@900 Am	**Received by:**	
Relinquished by:			**Received by:**	

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: 4/16/13
PAGE: 1 OF 1

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

CLIENT PROJECT NAME / NUMBER: **SFPP - Norwalk Site**
PROJECT CONTACT: **James Dye**
SAMPLER(S): (SIGNATURE)

P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TO-15	TO-3 (TPH-g)	ASTM-1946 (O2/Argon, CO2, CH4)	Comments
	VINF-04-16	Influent Vapor (from header)	4/16/13	1345	Air	4	X	X	X	Monthly sample NO100231

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

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

Date: 4/16/13 Time: 1400
Date: 4/18/13 Time: 1435
Date: Time:

Revised: 04/27/2011

ADVANCED TECHNOLOGY LABORATORIES

April 24, 2013

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No.: T104704502

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 : 1301118

Client Reference : [none]

Enclosed are the results for sample(s) received on April 17, 2013 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

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 04/24/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N010023-001A / VINF-04-16	1301118-01	Air	4/16/13 15:45	4/17/13 8:50

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 04/24/2013

Client Sample ID N010023-001A / VINF-04-16

Lab ID: 1301118-01

Volatile Organic Compounds in AIR by TO-15 **Analyst: LT**

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,1,1-Trichloroethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,1,2,2-Tetrachloroethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,1,2-Trichloroethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,1-Dichloroethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,1-Dichloroethene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,1-Dichloropropene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,2,3-Trichloropropane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,2,4-Trichlorobenzene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,2,4-Trimethylbenzene	**25**	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,2-Dibromo-3-chloropropane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,2-Dibromoethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,2-Dichlorobenzene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,2-Dichloroethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,2-Dichloropropane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,3,5-Trimethylbenzene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,3-Butadiene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,3-Dichlorobenzene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,4-Dichlorobenzene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
1,4-Dioxane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
2,2,4-Trimethylpentane	**870**	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
2-Butanone	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
2-Chloroethyl vinyl ether	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
2-Chlorotoluene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
2-Hexanone	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
2-Propanol	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
4-Chlorotoluene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
4-Ethyl Toluene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
4-Methyl-2-pentanone	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Acetone	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Acetonitrile	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Acrolein	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Acrylonitrile	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Benzene	**430**	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Benzyl chloride	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Bromobenzene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Bromodichloromethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 04/24/2013

Client Sample ID N010023-001A / VINF-04-16

Lab ID: 1301118-01

Volatile Organic Compounds in AIR by TO-15 **Analyst: LT**

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromoform	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Bromomethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Carbon disulfide	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Carbon tetrachloride	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Chlorobenzene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Chloroethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Chloroform	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Chloromethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
cis-1,2-Dichloroethene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
cis-1,3-Dichloropropene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Cyclohexane	**350**	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Dibromochloromethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Dibromomethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Dichlorodifluoromethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Dichlorotetrafluoroethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Ethanol	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Ethylbenzene	**29**	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Freon-113	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Hexachlorobutadiene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Isopropylbenzene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
m,p-Xylene	**140**	50	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Methylene chloride	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
MTBE	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
n-Butylbenzene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
n-Propylbenzene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Naphthalene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
o-Xylene	**53**	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
p-Isopropyltoluene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
sec-Butylbenzene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Styrene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
tert-Butylbenzene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Tetrachloroethene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Toluene	**240**	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
trans-1,2-Dichloroethene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
trans-1,3-Dichloropropene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Trichloroethene	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Trichlorofluoromethane	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	

Certificate of Analysis

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3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 04/24/2013

Client Sample ID N010023-001A / VINF-04-16

Lab ID: 1301118-01

Volatile Organic Compounds in AIR by TO-15

Analyst: LT

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Vinyl acetate	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Vinyl chloride	ND	25	NA	100	B3D0342	04/18/2013	04/18/13 15:51	
Surrogate: 4-Bromofluorobenzene	*114 %*	*70 - 130*			B3D0342	04/18/2013	*04/18/13 15:51*	

Gasoline Range Organics in Air by TO-3

Analyst: LT

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	**53000**	10000	NA	400	B3D0369	04/19/2013	04/19/13 11:34	
Surrogate: 4-Bromofluorobenzene	*107 %*	*70 - 130*			B3D0369	04/19/2013	*04/19/13 11:34*	

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 04/24/2013

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 B3D0342 - No_Prep_Air									
Blank (B3D0342-BLK1)				Prepared: 4/18/2013 Analyzed: 4/18/2013					
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				

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 04/24/2013

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 B3D0342 - No_Prep_Air (continued)									
Blank (B3D0342-BLK1) - Continued				Prepared: 4/18/2013 Analyzed: 4/18/2013					
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				
Surrogate: 4-Bromofluorobenzene	*2.740*		*2.50000*		*110*	*70 - 130*			
LCS (B3D0342-BS1)				Prepared: 4/18/2013 Analyzed: 4/18/2013					
1,1-Dichloroethane	1.72000	0.25	2.00000		86.0	70 - 130			

Certificate of Analysis

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3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 04/24/2013

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 B3D0342 - No_Prep_Air (continued)									
LCS (B3D0342-BS1) - Continued				Prepared: 4/18/2013 Analyzed: 4/18/2013					
Benzene	1.87000	0.25	2.00000		93.5	70 - 130			
Chloroform	1.75000	0.25	2.00000		87.5	70 - 130			
o-Xylene	1.77000	0.25	2.00000		88.5	70 - 130			
Tetrachloroethene	1.67000	0.25	2.00000		83.5	70 - 130			
Toluene	1.85000	0.25	2.00000		92.5	70 - 130			
Trichloroethene	1.71000	0.25	2.00000		85.5	70 - 130			
Vinyl chloride	1.68000	0.25	2.00000		84.0	70 - 130			
Surrogate: 4-Bromofluorobenzene	*2.700*		*2.50000*		*108*	*70 - 130*			
LCS Dup (B3D0342-BSD1)				Prepared: 4/18/2013 Analyzed: 4/18/2013					
1,1-Dichloroethane	1.69000	0.25	2.00000		84.5	70 - 130	1.76	20	
Benzene	1.90000	0.25	2.00000		95.0	70 - 130	1.59	20	
Chloroform	1.72000	0.25	2.00000		86.0	70 - 130	1.73	20	
o-Xylene	1.77000	0.25	2.00000		88.5	70 - 130	0.00	20	
Tetrachloroethene	1.66000	0.25	2.00000		83.0	70 - 130	0.601	20	
Toluene	1.87000	0.25	2.00000		93.5	70 - 130	1.08	20	
Trichloroethene	1.65000	0.25	2.00000		82.5	70 - 130	3.57	20	
Vinyl chloride	1.71000	0.25	2.00000		85.5	70 - 130	1.77	20	
Surrogate: 4-Bromofluorobenzene	*2.650*		*2.50000*		*106*	*70 - 130*			

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 04/24/2013

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

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3D0369 - No_Prep_Air									
Blank (B3D0369-BLK1)				Prepared: 4/19/2013 Analyzed: 4/19/2013					
Gasoline Range Organics	ND	25			NR				
Surrogate: 4-Bromofluorobenzene	*2.460*		*2.50000*		*98.4*	*70 - 130*			
LCS (B3D0369-BS2)				Prepared: 4/19/2013 Analyzed: 4/19/2013					
Gasoline Range Organics	167.230	25	200.000		83.6	70 - 130			
Surrogate: 4-Bromofluorobenzene	*2.870*		*2.50000*		*115*	*70 - 130*			
LCS Dup (B3D0369-BSD2)				Prepared: 4/19/2013 Analyzed: 4/19/2013					
Gasoline Range Organics	178.340	25	200.000		89.2	70 - 130	6.43	20	
Surrogate: 4-Bromofluorobenzene	*2.850*		*2.50000*		*114*	*70 - 130*			

Certificate of Analysis

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Las Vegas , NV 89118	Reported : 04/24/2013

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)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

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: James Dye

17-Apr-13

					Requested Tests		
	Sample ID	**Matrix**	**Date Collected**	**Bottle Type**	**EPA TO15**	**EPA TO3**	
N010023-001A	/ VINF-04-16 1301118-01	Air	4/16/2013 3:45:00 PM	BAG	1	1	

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

Please use PO#: N010023 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by: 5 Day

		Date/Time			Date/Time
Relinquished by:	MBEARTIN [signature]	4/17/13 @ 900 AM	**Received by:**	[signature]	4/17/13 850
Relinquished by:			**Received by:**		

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: 4/16/13
PAGE: 1 OF 1

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

CLIENT PROJECT NAME / NUMBER: **SFPP - Norwalk Site**
PROJECT CONTACT: **James Dye**
SAMPLER(S): (SIGNATURE)

P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TO-15	TO-3 (TPH-g)	ASTM-1946 (O2/Argon, CO2, CH4)	Comments
	VINF-04-14	Influent Vapor (from header)	4/16/13	1345	Air	4	X	X	X	Monthly sample

Relinquished by: (Signature)	Received by: (Signature)	Date: 4/16/13	Time: 1600
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/16/13	Time: 1435
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 04/27/2011

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: 4/16/13

PAGE: 1 OF 1

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

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

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TPH - g, TPH-d, and TPH-oil (8015M)	Full VOC+ Oxygenates List (8260B)	Comments
	INF-04-16	Influent	4-16-13	1325	WW	8	X	X	

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Joe Hanlon		4/16/13	1400
Joe Hanlon	C. Byrd	4/16/13	1435

Revised: 07/19/2012

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: 4/16/13

PAGE: 1 OF 1

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

CLIENT PROJECT NAME / NUMBER: **SFPP - Norwalk Site**
PROJECT CONTACT: **James Dye**
SAMPLER(S): (SIGNATURE)
P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ■ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MAT-RIX	NO. OF CONT. 15	MTBE, TBA, and MEK (8260B)	BTEX, and Total Xylenes (8260B)	1,1-DCA and 1,2-DCA (8260B)	Comments
	MP1-____-____	Lead Gac Outlet	4/16/13	1325	WW	3	X	X	X	
	INF FBBR-	Influent FBBR1	4/16/13	1325	WW	3	X	X	X	
	EFF FBBR1-	Effluentt FBBR1	4/16/13	1325	WW	3	X	X	X	
	EFF FBBR2-	Effluent FBBR2	4/16/13	1325	WW	3	X	X	X	
	EFF POL1-	Effluent from 1st polishing GAC	4/16/13	1325	WW	3	X	X	X	

Relinquished by: (Signature)	Received by: (Signature)	Date: 4/16/13	Time: ~~21/13~~ 13 1355
Relinquished by: (Signature)	Received by: (Signature) C. Agit	Date: 4/16/13	Time: 1435
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 04/16/13

AIR TECHNOLOGY
Laboratories, Inc.

April 24, 2013

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

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

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

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

LABORATORY TEST RESULTS

Project Reference: N010023
Lab Number: E041702-01

Enclosed are results for sample(s) received 4/17/13 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

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

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

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

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

E041702 - 01

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: James Dye

17-Apr-13

					Requested Tests		
Sample ID	Matrix	Date Collected	Bottle Type	ASTM D1946			
01 N010023-001B / VINF-04-16	Air	4/16/2013 3:45:00 PM	BAG	1			

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#:N010023 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by: 5 day TAT
Please analyze for O2, Argon, CO2, CH4 by ASTM 1964.

		Date/Time			Date/Time
Relinquished by:	[signature]	4/17/13 @ 0900	**Received by:**	[signature]	4/17/13 0900 via email
Relinquished by:			**Received by:**		

Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N010023
Date Received: 04/17/13
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	**E041702-01**							
Client Sample I.D.:	**N010023-001B / VINF-04-16**							
Date Sampled:	**04/16/13**							
Date Analyzed:	**04/18/13**							
QC Batch No.:	**130418GC8A1**							
Analyst Initials:	**MJ**							
Dilution Factor:	**1.0**							
ANALYTE	**Result % v/v**	**RL % v/v**						
Carbon Dioxide	**0.74**	0.010						
Oxygen/Argon	**21**	0.50						
Methane	**0.0079**	0.0010						

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

Reviewed/Approved By: _____ **Date** 4-24-13

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 130418GC8A1
Matrix: Air
Units: % v/v

QC for ASTM D1946

Lab No.:	Method Blank		LCS		LCSD			
Date Analyzed:	04/18/13		04/18/13		04/18/13			
Analyst Initials:	MJ		MJ		MJ			
Datafile:	18apr011		18apr008		18apr009			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	**Results**	**RL**	**% Rec.**	**Criteria**	**% Rec.**	**Criteria**	**%RPD**	**Criteria**
Carbon Dioxide	ND	0.010	103	70-130%	103	70-130%	0.3	<30
Oxygen/Argon	ND	0.50	104	70-130%	104	70-130%	0.8	<30
Methane	ND	0.0010	102	70-130%	103	70-130%	0.8	<30

ND = Not Detected (Below RL)

Reviewed/Approved By: _____ **Date:** 4-24-13

Mark J. Johnson
Operations Manager

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

May 21, 2013

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

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

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

Workorder No.: N010243

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on May 15, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Jose Tenorio Jr.
Laboratory Director

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N010243

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.

Advanced Technology Laboratories, Inc.

Date: *21-May-13*

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N010243
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N010243-001A	INF-05-14	Wastewater	5/14/2013 12:10:00 PM	5/15/2013	5/21/2013
N010243-001B	INF-05-14	Wastewater	5/14/2013 12:10:00 PM	5/15/2013	5/21/2013
N010243-001C	INF-05-14	Wastewater	5/14/2013 12:10:00 PM	5/15/2013	5/21/2013

CLIENT: CH2M HILL
Lab Order: N010243
Project: SFPP - Norwalk Site
Lab ID: N010243-001

Client Sample ID: INF-05-14
Collection Date: 5/14/2013 12:10:00 PM
Matrix: WASTEWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_130516A** QC Batch: **P13VW069** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.068	1.0		ug/L	1	5/16/2013 11:32 AM
1,1,1-Trichloroethane	ND	0.072	1.0		ug/L	1	5/16/2013 11:32 AM
1,1,2,2-Tetrachloroethane	ND	0.10	1.0		ug/L	1	5/16/2013 11:32 AM
1,1,2-Trichloroethane	ND	0.13	1.0		ug/L	1	5/16/2013 11:32 AM
1,1-Dichloroethane	ND	0.062	0.50		ug/L	1	5/16/2013 11:32 AM
1,1-Dichloroethene	ND	0.16	1.0		ug/L	1	5/16/2013 11:32 AM
1,1-Dichloropropene	ND	0.073	1.0		ug/L	1	5/16/2013 11:32 AM
1,2,3-Trichlorobenzene	ND	0.084	1.0		ug/L	1	5/16/2013 11:32 AM
1,2,3-Trichloropropane	ND	0.11	1.0		ug/L	1	5/16/2013 11:32 AM
1,2,4-Trichlorobenzene	ND	0.10	1.0		ug/L	1	5/16/2013 11:32 AM
1,2,4-Trimethylbenzene	51	0.036	1.0		ug/L	1	5/16/2013 11:32 AM
1,2-Dibromo-3-chloropropane	ND	0.34	2.0		ug/L	1	5/16/2013 11:32 AM
1,2-Dibromoethane	ND	0.090	1.0		ug/L	1	5/16/2013 11:32 AM
1,2-Dichlorobenzene	ND	0.048	1.0		ug/L	1	5/16/2013 11:32 AM
1,2-Dichloroethane	2.1	0.044	0.50		ug/L	1	5/16/2013 11:32 AM
1,2-Dichloropropane	ND	0.094	1.0		ug/L	1	5/16/2013 11:32 AM
1,3,5-Trimethylbenzene	15	0.054	1.0		ug/L	1	5/16/2013 11:32 AM
1,3-Dichlorobenzene	ND	0.061	1.0		ug/L	1	5/16/2013 11:32 AM
1,3-Dichloropropane	ND	0.081	1.0		ug/L	1	5/16/2013 11:32 AM
1,4-Dichlorobenzene	ND	0.078	1.0		ug/L	1	5/16/2013 11:32 AM
2,2-Dichloropropane	ND	0.061	1.0		ug/L	1	5/16/2013 11:32 AM
2-Butanone	ND	0.70	10		ug/L	1	5/16/2013 11:32 AM
2-Chlorotoluene	ND	0.054	1.0		ug/L	1	5/16/2013 11:32 AM
4-Chlorotoluene	ND	0.039	1.0		ug/L	1	5/16/2013 11:32 AM
4-Isopropyltoluene	0.73	0.044	1.0	J	ug/L	1	5/16/2013 11:32 AM
4-Methyl-2-pentanone	ND	0.59	10		ug/L	1	5/16/2013 11:32 AM
Acetone	24	1.2	10		ug/L	1	5/16/2013 12:45 AM
Acrolein	ND	0.89	20		ug/L	1	5/16/2013 11:32 AM
Acrylonitrile	ND	0.68	20		ug/L	1	5/16/2013 11:32 AM
Benzene	2000	4.8	100		ug/L	100	5/16/2013 12:33 PM
Bromobenzene	ND	0.054	1.0		ug/L	1	5/16/2013 11:32 AM
Bromochloromethane	ND	0.15	1.0		ug/L	1	5/16/2013 11:32 AM
Bromodichloromethane	ND	0.048	1.0		ug/L	1	5/16/2013 11:32 AM
Bromoform	ND	0.18	1.0		ug/L	1	5/16/2013 11:32 AM
Bromomethane	ND	0.13	1.0		ug/L	1	5/16/2013 11:32 AM
Carbon disulfide	ND	0.040	1.0		ug/L	1	5/16/2013 11:32 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

CLIENT: CH2M HILL
Lab Order: N010243
Project: SFPP - Norwalk Site
Lab ID: N010243-001

Client Sample ID: INF-05-14
Collection Date: 5/14/2013 12:10:00 PM
Matrix: WASTEWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_130516A** QC Batch: **P13VW069** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
Carbon tetrachloride	ND	0.057	1.0		ug/L	1	5/16/2013 11:32 AM
Chlorobenzene	ND	0.044	1.0		ug/L	1	5/16/2013 11:32 AM
Chloroethane	ND	0.17	1.0		ug/L	1	5/16/2013 11:32 AM
Chloroform	ND	0.048	1.0		ug/L	1	5/16/2013 11:32 AM
Chloromethane	ND	0.043	1.0		ug/L	1	5/16/2013 11:32 AM
cis-1,2-Dichloroethene	ND	0.057	1.0		ug/L	1	5/16/2013 11:32 AM
cis-1,3-Dichloropropene	ND	0.051	1.0		ug/L	1	5/16/2013 11:32 AM
Di-isopropyl ether	22	0.038	1.0		ug/L	1	5/16/2013 11:32 AM
Dibromochloromethane	ND	0.070	1.0		ug/L	1	5/16/2013 11:32 AM
Dibromomethane	ND	0.11	1.0		ug/L	1	5/16/2013 11:32 AM
Dichlorodifluoromethane	ND	0.054	1.0		ug/L	1	5/16/2013 11:32 AM
Ethyl tert-butyl ether	ND	0.061	1.0		ug/L	1	5/16/2013 11:32 AM
Ethylbenzene	52	0.036	1.0		ug/L	1	5/16/2013 11:32 AM
Freon-113	ND	0.15	1.0		ug/L	1	5/16/2013 11:32 AM
Hexachlorobutadiene	ND	0.070	1.0		ug/L	1	5/16/2013 11:32 AM
Isopropylbenzene	13	0.073	1.0		ug/L	1	5/16/2013 11:32 AM
m,p-Xylene	150	0.14	1.0		ug/L	1	5/16/2013 11:32 AM
Methylene chloride	ND	0.28	2.0		ug/L	1	5/16/2013 11:32 AM
MTBE	61	0.098	1.0		ug/L	1	5/16/2013 11:32 AM
n-Butylbenzene	3.4	0.076	1.0		ug/L	1	5/16/2013 11:32 AM
n-Propylbenzene	29	0.049	1.0		ug/L	1	5/16/2013 11:32 AM
Naphthalene	80	0.10	1.0		ug/L	1	5/16/2013 11:32 AM
o-Xylene	31	0.042	1.0		ug/L	1	5/16/2013 11:32 AM
sec-Butylbenzene	2.4	0.036	1.0		ug/L	1	5/16/2013 11:32 AM
Styrene	ND	0.040	1.0		ug/L	1	5/16/2013 11:32 AM
Tert-amyl methyl ether	ND	0.054	1.0		ug/L	1	5/16/2013 11:32 AM
Tert-Butanol	270	1.0	5.0		ug/L	1	5/16/2013 11:32 AM
tert-Butylbenzene	ND	0.040	1.0		ug/L	1	5/16/2013 11:32 AM
Tetrachloroethene	0.49	0.12	1.0	J	ug/L	1	5/16/2013 11:32 AM
Toluene	98	0.34	20		ug/L	10	5/16/2013 11:04 AM
trans-1,2-Dichloroethene	ND	0.11	1.0		ug/L	1	5/16/2013 11:32 AM
trans-1,3-Dichloropropene	ND	0.060	1.0		ug/L	1	5/16/2013 11:32 AM
Trichloroethene	ND	0.075	1.0		ug/L	1	5/16/2013 11:32 AM
Trichlorofluoromethane	ND	0.057	1.0		ug/L	1	5/16/2013 11:32 AM
Vinyl chloride	ND	0.082	1.0		ug/L	1	5/16/2013 11:32 AM
Xylenes, Total	180	1.5	2.0		ug/L	1	5/16/2013 11:32 AM

Qualifiers:

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

CLIENT: CH2M HILL
Lab Order: N010243
Project: SFPP - Norwalk Site
Lab ID: N010243-001

Client Sample ID: INF-05-14
Collection Date: 5/14/2013 12:10:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_130516A**	QC Batch: **P13VW069**			PrepDate:			Analyst: **QBM**
Surr: 1,2-Dichloroethane-d4	99.8	0	72-119		%REC	10	5/16/2013 11:04 AM
Surr: 1,2-Dichloroethane-d4	104	0	72-119		%REC	1	5/16/2013 12:45 AM
Surr: 1,2-Dichloroethane-d4	105	0	72-119		%REC	1	5/16/2013 11:32 AM
Surr: 1,2-Dichloroethane-d4	104	0	72-119		%REC	100	5/16/2013 12:33 PM
Surr: 4-Bromofluorobenzene	106	0	76-119		%REC	1	5/16/2013 12:45 AM
Surr: 4-Bromofluorobenzene	102	0	76-119		%REC	10	5/16/2013 11:04 AM
Surr: 4-Bromofluorobenzene	104	0	76-119		%REC	1	5/16/2013 11:32 AM
Surr: 4-Bromofluorobenzene	104	0	76-119		%REC	100	5/16/2013 12:33 PM
Surr: Dibromofluoromethane	98.9	0	85-115		%REC	100	5/16/2013 12:33 PM
Surr: Dibromofluoromethane	99.3	0	85-115		%REC	10	5/16/2013 11:04 AM
Surr: Dibromofluoromethane	95.5	0	85-115		%REC	1	5/16/2013 11:32 AM
Surr: Dibromofluoromethane	99.4	0	85-115		%REC	1	5/16/2013 12:45 AM
Surr: Toluene-d8	101	0	81-120		%REC	10	5/16/2013 11:04 AM
Surr: Toluene-d8	104	0	81-120		%REC	100	5/16/2013 12:33 PM
Surr: Toluene-d8	104	0	81-120		%REC	1	5/16/2013 12:45 AM
Surr: Toluene-d8	101	0	81-120		%REC	1	5/16/2013 11:32 AM
TPH EXTRACTABLE BY GC/FID							
	EPA 3510C		**EPA 8015B**				
RunID: **GC3_130515A**	QC Batch: **42990**			PrepDate:	**5/15/2013**		Analyst: **MDM**
TPH-Diesel (C13-C22)	830	13	51		ug/L	1	5/15/2013 02:18 PM
TPH-Oil (C23-C36)	99	9.7	51		ug/L	1	5/15/2013 02:18 PM
Surr: Octacosane	94.0	0	26-152		%REC	1	5/15/2013 02:18 PM
Surr: p-Terphenyl	97.4	0	57-132		%REC	1	5/15/2013 02:18 PM
GASOLINE RANGE ORGANICS BY GC/FID							
			EPA 8015B				
RunID: **GC4_130517A**	QC Batch: **E13VW025**			PrepDate:			Analyst: **QBM**
TPH-Gasoline (C4-C12)	4300	8.5	100		ug/L	1	5/17/2013 10:54 AM
Surr: Chlorobenzene - d5	101	0	74-138		%REC	1	5/17/2013 10:54 AM
TOTAL TPH							
			EPA 8015B				
RunID: **GC3_130515A**	QC Batch: **R88882**			PrepDate:	**5/15/2013**		Analyst: **MDM**
Total TPH	5229	13	100		ug/L	1	5/15/2013 02:18 PM

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: **MB-42990** SampType: **MBLK** TestCode: **8015_W_FP_** Units: **ug/L** Prep Date: **5/15/2013** RunNo: **88882**
Client ID: **PBW** Batch ID: **42990** TestNo: **EPA 8015B** **EPA 3510C** Analysis Date: **5/15/2013** SeqNo: **1576643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	50									
TPH-Oil (C23-C36)	17.940	50									J
Surr: Octacosane	84.567		80.00		106	26	152				
Surr: p-Terphenyl	85.058		80.00		106	57	132				

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GSFPP

Sample ID: **E130517LCS**	SampType: **LCS**	TestCode: **8015_W_GSF**	Units: **ug/L**	Prep Date:	RunNo: **88917**
Client ID: **LCSW**	Batch ID: **E13VW025**	TestNo: **EPA 8015B**		Analysis Date: **5/17/2013**	SeqNo: **1579005**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	904.000	100	1000	0	90.4	67	136				
Surr: Chlorobenzene - d5	48279.000		50000		96.6	74	138				

Sample ID: **E130517MB1**	SampType: **MBLK**	TestCode: **8015_W_GSF**	Units: **ug/L**	Prep Date:	RunNo: **88917**
Client ID: **PBW**	Batch ID: **E13VW025**	TestNo: **EPA 8015B**		Analysis Date: **5/17/2013**	SeqNo: **1579006**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	100									
Surr: Chlorobenzene - d5	47660.000		50000		95.3	74	138				

Sample ID: **N010243-001BMS**	SampType: **MS**	TestCode: **8015_W_GSF**	Units: **ug/L**	Prep Date:	RunNo: **88917**
Client ID: **ZZZZZZ**	Batch ID: **E13VW025**	TestNo: **EPA 8015B**		Analysis Date: **5/17/2013**	SeqNo: **1579008**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	7166.000	100	2500	4337	113	67	136				
Surr: Chlorobenzene - d5	52206.000		50000		104	74	138				

Sample ID: **N010243-001BMSD**	SampType: **MSD**	TestCode: **8015_W_GSF**	Units: **ug/L**	Prep Date:	RunNo: **88917**
Client ID: **ZZZZZZ**	Batch ID: **E13VW025**	TestNo: **EPA 8015B**		Analysis Date: **5/17/2013**	SeqNo: **1579009**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	6880.000	100	2500	4337	102	67	136	7166	4.07	30	
Surr: Chlorobenzene - d5	52119.000		50000		104	74	138		0	0	

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: **MB-42990**	SampType: **MBLK**	TestCode: **8015_W_SFP**	Units: **ug/L**		Prep Date: **5/15/2013**				RunNo: **88882**		
Client ID: **PBW**	Batch ID: **R88882**	TestNo: **EPA 8015B**			Analysis Date: **5/15/2013**				SeqNo: **1576645**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	ND	100									

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130515LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88883**
Client ID: **LCSW** Batch ID: **P13VW068** TestNo: **EPA 8260B** Analysis Date: **5/15/2013** SeqNo: **1577218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	21.200	1.0	20.00	0	106	81	129				
1,1,1-Trichloroethane	19.680	1.0	20.00	0	98.4	67	132				
1,1,2,2-Tetrachloroethane	19.290	1.0	20.00	0	96.5	63	128				
1,1,2-Trichloroethane	18.810	1.0	20.00	0	94.1	75	125				
1,1-Dichloroethane	18.700	0.50	20.00	0	93.5	69	133				
1,1-Dichloroethene	19.860	1.0	20.00	0	99.3	68	130				
1,1-Dichloropropene	19.500	1.0	20.00	0	97.5	73	132				
1,2,3-Trichlorobenzene	20.460	1.0	20.00	0	102	67	137				
1,2,3-Trichloropropane	19.410	1.0	20.00	0	97.0	73	124				
1,2,4-Trichlorobenzene	20.630	1.0	20.00	0	103	66	134				
1,2,4-Trimethylbenzene	20.100	1.0	20.00	0	101	74	132				
1,2-Dibromo-3-chloropropane	18.390	2.0	20.00	0	92.0	50	132				
1,2-Dibromoethane	20.640	1.0	20.00	0	103	80	121				
1,2-Dichlorobenzene	19.570	1.0	20.00	0	97.9	71	122				
1,2-Dichloroethane	19.770	0.50	20.00	0	98.8	69	132				
1,2-Dichloropropane	19.360	1.0	20.00	0	96.8	75	125				
1,3,5-Trimethylbenzene	20.040	1.0	20.00	0	100	74	131				
1,3-Dichlorobenzene	19.510	1.0	20.00	0	97.6	75	124				
1,3-Dichloropropane	19.460	1.0	20.00	0	97.3	73	126				
1,4-Dichlorobenzene	19.010	1.0	20.00	0	95.1	74	123				
2,2-Dichloropropane	19.140	1.0	20.00	0	95.7	69	137				
2-Butanone	175.240	10	200.0	0	87.6	49	136				
2-Chlorotoluene	19.710	1.0	20.00	0	98.6	73	126				
4-Chlorotoluene	19.890	1.0	20.00	0	99.4	74	128				
4-Isopropyltoluene	20.040	1.0	20.00	0	100	73	130				
4-Methyl-2-pentanone	204.230	10	200.0	0	102	58	134				
Acetone	187.320	10	200.0	0	93.7	40	135				
Acrolein	185.230	20	200.0	0	92.6	75	125				
Acrylonitrile	183.720	20	200.0	0	91.9	75	125				
Benzene	19.380	1.0	20.00	0	96.9	81	122				

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130515LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88883**
Client ID: **LCSW** Batch ID: **P13VW068** TestNo: **EPA 8260B** Analysis Date: **5/15/2013** SeqNo: **1577218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	19.590	1.0	20.00	0	98.0	76	124				
Bromochloromethane	18.220	1.0	20.00	0	91.1	65	129				
Bromodichloromethane	20.640	1.0	20.00	0	103	76	121				
Bromoform	21.170	1.0	20.00	0	106	69	128				
Bromomethane	22.810	1.0	20.00	0	114	53	141				
Carbon disulfide	19.740	1.0	20.00	0	98.7	75	125				
Carbon tetrachloride	21.890	1.0	20.00	0	109	66	138				
Chlorobenzene	19.510	1.0	20.00	0	97.6	81	122				
Chloroethane	18.900	1.0	20.00	0	94.5	58	133				
Chloroform	18.720	1.0	20.00	0	93.6	69	128				
Chloromethane	17.960	1.0	20.00	0	89.8	56	131				
cis-1,2-Dichloroethene	18.590	1.0	20.00	0	93.0	72	126				
cis-1,3-Dichloropropene	19.860	1.0	20.00	0	99.3	69	131				
Di-isopropyl ether	18.720	1.0	20.00	0	93.6	70	130				
Dibromochloromethane	20.900	1.0	20.00	0	104	66	133				
Dibromomethane	19.500	1.0	20.00	0	97.5	76	125				
Dichlorodifluoromethane	19.530	1.0	20.00	0	97.6	53	153				
Ethyl tert-butyl ether	20.270	1.0	20.00	0	101	70	130				
Ethylbenzene	19.490	1.0	20.00	0	97.5	73	127				
Freon-113	19.110	1.0	20.00	0	95.6	75	125				
Hexachlorobutadiene	19.230	1.0	20.00	0	96.2	67	131				
Isopropylbenzene	20.080	1.0	20.00	0	100	75	127				
m,p-Xylene	40.300	1.0	40.00	0	101	76	128				
Methylene chloride	19.850	2.0	20.00	0	99.2	63	137				
MTBE	17.660	1.0	20.00	0	88.3	65	123				
n-Butylbenzene	19.990	1.0	20.00	0	100	69	137				
n-Propylbenzene	19.800	1.0	20.00	0	99.0	72	129				
Naphthalene	21.160	1.0	20.00	0	106	54	138				
o-Xylene	20.060	1.0	20.00	0	100	80	121				
sec-Butylbenzene	19.750	1.0	20.00	0	98.8	72	127				

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130515LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88883**
Client ID: **LCSW** Batch ID: **P13VW068** TestNo: **EPA 8260B** Analysis Date: **5/15/2013** SeqNo: **1577218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	20.100	1.0	20.00	0	101	65	134				
Tert-amyl methyl ether	19.940	1.0	20.00	0	99.7	70	130				
Tert-Butanol	87.520	5.0	100.0	0	87.5	70	130				
tert-Butylbenzene	19.950	1.0	20.00	0	99.8	70	129				
Tetrachloroethene	19.560	1.0	20.00	0	97.8	66	128				
Toluene	19.690	2.0	20.00	0	98.4	77	122				
trans-1,2-Dichloroethene	18.660	1.0	20.00	0	93.3	63	137				
trans-1,3-Dichloropropene	20.890	1.0	20.00	0	104	59	135				
Trichloroethene	18.770	1.0	20.00	0	93.8	70	127				
Trichlorofluoromethane	19.610	1.0	20.00	0	98.0	57	129				
Vinyl chloride	19.450	1.0	20.00	0	97.3	50	134				
Xylenes, Total	60.360	2.0	60.00	0	101	75	125				
Surr: 1,2-Dichloroethane-d4	24.920		25.00		99.7	72	119				
Surr: 4-Bromofluorobenzene	26.620		25.00		106	76	119				
Surr: Dibromofluoromethane	25.010		25.00		100	85	115				
Surr: Toluene-d8	26.290		25.00		105	81	120				

Sample ID: **P130515MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88883**
Client ID: **PBW** Batch ID: **P13VW068** TestNo: **EPA 8260B** Analysis Date: **5/15/2013** SeqNo: **1577219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130515MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88883**
Client ID: **PBW** Batch ID: **P13VW068** TestNo: **EPA 8260B** Analysis Date: **5/15/2013** SeqNo: **1577219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Acrolein	ND	20									
Acrylonitrile	ND	20									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130515MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88883**
Client ID: **PBW** Batch ID: **P13VW068** TestNo: **EPA 8260B** Analysis Date: **5/15/2013** SeqNo: **1577219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	2.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130515MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88883**
Client ID: **PBW** Batch ID: **P13VW068** TestNo: **EPA 8260B** Analysis Date: **5/15/2013** SeqNo: **1577219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	25.830		25.00		103	72	119				
Surr: 4-Bromofluorobenzene	25.890		25.00		104	76	119				
Surr: Dibromofluoromethane	25.650		25.00		103	85	115				
Surr: Toluene-d8	25.550		25.00		102	81	120				

Sample ID: **N010233-001FMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88883**
Client ID: **ZZZZZZ** Batch ID: **P13VW068** TestNo: **EPA 8260B** Analysis Date: **5/16/2013** SeqNo: **1577232**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.180	1.0	20.00	0	101	81	129				
1,1,1-Trichloroethane	18.830	1.0	20.00	0	94.2	67	132				
1,1,2,2-Tetrachloroethane	20.060	1.0	20.00	0	100	63	128				
1,1,2-Trichloroethane	19.390	1.0	20.00	0	97.0	75	125				
1,1-Dichloroethane	18.810	0.50	20.00	0	94.1	69	133				
1,1-Dichloroethene	20.500	1.0	20.00	0	103	68	130				
1,1-Dichloropropene	19.740	1.0	20.00	0	98.7	73	132				
1,2,3-Trichlorobenzene	20.110	1.0	20.00	0	101	67	137				
1,2,3-Trichloropropane	20.300	1.0	20.00	0	102	73	124				
1,2,4-Trichlorobenzene	19.990	1.0	20.00	0	100	66	134				
1,2,4-Trimethylbenzene	19.960	1.0	20.00	0	99.8	74	132				
1,2-Dibromo-3-chloropropane	17.340	2.0	20.00	0	86.7	50	132				
1,2-Dibromoethane	19.830	1.0	20.00	0	99.2	80	121				
1,2-Dichlorobenzene	19.790	1.0	20.00	0	99.0	71	122				
1,2-Dichloroethane	20.390	0.50	20.00	0	102	69	132				
1,2-Dichloropropane	19.310	1.0	20.00	0	96.6	75	125				
1,3,5-Trimethylbenzene	20.090	1.0	20.00	0	100	74	131				
1,3-Dichlorobenzene	19.430	1.0	20.00	0	97.2	75	124				

Qualifiers:

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

Advanced Technology Laboratories, Inc.
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CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010233-001FMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88883**
Client ID: **ZZZZZZ** Batch ID: **P13VW068** TestNo: **EPA 8260B** Analysis Date: **5/16/2013** SeqNo: **1577232**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	19.700	1.0	20.00	0	98.5	73	126				
1,4-Dichlorobenzene	19.030	1.0	20.00	0	95.2	74	123				
2,2-Dichloropropane	13.110	1.0	20.00	0	65.6	69	137				S
2-Butanone	191.700	10	200.0	0	95.8	49	136				
2-Chlorotoluene	20.100	1.0	20.00	0	101	73	126				
4-Chlorotoluene	19.830	1.0	20.00	0	99.2	74	128				
4-Isopropyltoluene	19.940	1.0	20.00	0	99.7	73	130				
4-Methyl-2-pentanone	222.850	10	200.0	0	111	58	134				
Acetone	214.220	10	200.0	0	107	40	135				
Acrolein	180.440	20	200.0	0	90.2	75	125				
Acrylonitrile	195.020	20	200.0	0	97.5	75	125				
Benzene	20.240	1.0	20.00	0	101	81	122				
Bromobenzene	19.700	1.0	20.00	0	98.5	76	124				
Bromochloromethane	18.060	1.0	20.00	0	90.3	65	129				
Bromodichloromethane	20.630	1.0	20.00	0	103	76	121				
Bromoform	20.010	1.0	20.00	0	100	69	128				
Bromomethane	20.380	1.0	20.00	0	102	53	141				
Carbon disulfide	20.620	1.0	20.00	0	103	75	125				
Carbon tetrachloride	22.990	1.0	20.00	1.380	108	66	138				
Chlorobenzene	19.720	1.0	20.00	0	98.6	81	122				
Chloroethane	20.130	1.0	20.00	0	101	58	133				
Chloroform	19.020	1.0	20.00	0	95.1	69	128				
Chloromethane	17.830	1.0	20.00	0	89.2	56	131				
cis-1,2-Dichloroethene	18.350	1.0	20.00	0	91.8	72	126				
cis-1,3-Dichloropropene	18.570	1.0	20.00	0	92.8	69	131				
Di-isopropyl ether	19.190	1.0	20.00	0	96.0	70	130				
Dibromochloromethane	19.900	1.0	20.00	0	99.5	66	133				
Dibromomethane	19.460	1.0	20.00	0	97.3	76	125				
Dichlorodifluoromethane	19.920	1.0	20.00	0	99.6	53	153				
Ethyl tert-butyl ether	19.220	1.0	20.00	0	96.1	70	130				

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010233-001FMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88883**
Client ID: **ZZZZZZ** Batch ID: **P13VW068** TestNo: **EPA 8260B** Analysis Date: **5/16/2013** SeqNo: **1577232**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	19.760	1.0	20.00	0	98.8	73	127				
Freon-113	29.490	1.0	20.00	10.45	95.2	75	125				
Hexachlorobutadiene	18.500	1.0	20.00	0	92.5	67	131				
Isopropylbenzene	19.940	1.0	20.00	0	99.7	75	127				
m,p-Xylene	40.330	1.0	40.00	0	101	76	128				
Methylene chloride	19.880	2.0	20.00	0	99.4	63	137				
MTBE	20.060	1.0	20.00	0	100	65	123				
n-Butylbenzene	19.820	1.0	20.00	0	99.1	69	137				
n-Propylbenzene	19.820	1.0	20.00	0	99.1	72	129				
Naphthalene	21.530	1.0	20.00	0	108	54	138				
o-Xylene	20.120	1.0	20.00	0	101	80	121				
sec-Butylbenzene	19.690	1.0	20.00	0	98.4	72	127				
Styrene	18.900	1.0	20.00	0	94.5	65	134				
Tert-amyl methyl ether	19.130	1.0	20.00	0	95.7	70	130				
Tert-Butanol	114.220	5.0	100.0	0	114	70	130				
tert-Butylbenzene	19.890	1.0	20.00	0	99.4	70	129				
Tetrachloroethene	21.240	1.0	20.00	0	106	66	128				
Toluene	19.670	2.0	20.00	0	98.4	77	122				
trans-1,2-Dichloroethene	20.160	1.0	20.00	0	101	63	137				
trans-1,3-Dichloropropene	19.230	1.0	20.00	0	96.2	59	135				
Trichloroethene	18.620	1.0	20.00	0	93.1	70	127				
Trichlorofluoromethane	20.880	1.0	20.00	0.6200	101	57	129				
Vinyl chloride	20.090	1.0	20.00	0	100	50	134				
Xylenes, Total	60.450	2.0	60.00	0	101	75	125				
Surr: 1,2-Dichloroethane-d4	26.420		25.00		106	72	119				
Surr: 4-Bromofluorobenzene	26.750		25.00		107	76	119				
Surr: Dibromofluoromethane	24.950		25.00		99.8	85	115				
Surr: Toluene-d8	26.220		25.00		105	81	120				

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010233-001FMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88883**
Client ID: **ZZZZZZ** Batch ID: **P13VW068** TestNo: **EPA 8260B** Analysis Date: **5/16/2013** SeqNo: **1577233**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.620	1.0	20.00	0	103	81	129	20.18	2.16	20	
1,1,1-Trichloroethane	18.950	1.0	20.00	0	94.8	67	132	18.83	0.635	20	
1,1,2,2-Tetrachloroethane	20.340	1.0	20.00	0	102	63	128	20.06	1.39	20	
1,1,2-Trichloroethane	19.460	1.0	20.00	0	97.3	75	125	19.39	0.360	20	
1,1-Dichloroethane	19.440	0.50	20.00	0	97.2	69	133	18.81	3.29	20	
1,1-Dichloroethene	20.470	1.0	20.00	0	102	68	130	20.50	0.146	20	
1,1-Dichloropropene	19.630	1.0	20.00	0	98.2	73	132	19.74	0.559	20	
1,2,3-Trichlorobenzene	20.410	1.0	20.00	0	102	67	137	20.11	1.48	20	
1,2,3-Trichloropropane	20.510	1.0	20.00	0	103	73	124	20.30	1.03	20	
1,2,4-Trichlorobenzene	20.240	1.0	20.00	0	101	66	134	19.99	1.24	20	
1,2,4-Trimethylbenzene	20.110	1.0	20.00	0	101	74	132	19.96	0.749	20	
1,2-Dibromo-3-chloropropane	18.540	2.0	20.00	0	92.7	50	132	17.34	6.69	20	
1,2-Dibromoethane	20.990	1.0	20.00	0	105	80	121	19.83	5.68	20	
1,2-Dichlorobenzene	19.980	1.0	20.00	0	99.9	71	122	19.79	0.955	20	
1,2-Dichloroethane	20.830	0.50	20.00	0	104	69	132	20.39	2.13	20	
1,2-Dichloropropane	19.350	1.0	20.00	0	96.8	75	125	19.31	0.207	20	
1,3,5-Trimethylbenzene	20.100	1.0	20.00	0	101	74	131	20.09	0.0498	20	
1,3-Dichlorobenzene	19.720	1.0	20.00	0	98.6	75	124	19.43	1.48	20	
1,3-Dichloropropane	19.930	1.0	20.00	0	99.7	73	126	19.70	1.16	20	
1,4-Dichlorobenzene	19.180	1.0	20.00	0	95.9	74	123	19.03	0.785	20	
2,2-Dichloropropane	12.960	1.0	20.00	0	64.8	69	137	13.11	1.15	20	S
2-Butanone	188.030	10	200.0	0	94.0	49	136	191.7	1.93	20	
2-Chlorotoluene	20.360	1.0	20.00	0	102	73	126	20.10	1.29	20	
4-Chlorotoluene	20.100	1.0	20.00	0	101	74	128	19.83	1.35	20	
4-Isopropyltoluene	20.040	1.0	20.00	0	100	73	130	19.94	0.500	20	
4-Methyl-2-pentanone	222.030	10	200.0	0	111	58	134	222.8	0.369	20	
Acetone	210.800	10	200.0	0	105	40	135	214.2	1.61	20	
Acrolein	177.760	20	200.0	0	88.9	75	125	180.4	1.50	20	
Acrylonitrile	193.630	20	200.0	0	96.8	75	125	195.0	0.715	20	
Benzene	19.900	1.0	20.00	0	99.5	81	122	20.24	1.69	20	

Qualifiers:

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

Advanced Technology Laboratories, Inc.
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CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010233-001FMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88883**
Client ID: **ZZZZZZ** Batch ID: **P13VW068** TestNo: **EPA 8260B** Analysis Date: **5/16/2013** SeqNo: **1577233**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	19.780	1.0	20.00	0	98.9	76	124	19.70	0.405	20	
Bromochloromethane	17.790	1.0	20.00	0	89.0	65	129	18.06	1.51	20	
Bromodichloromethane	20.930	1.0	20.00	0	105	76	121	20.63	1.44	20	
Bromoform	20.850	1.0	20.00	0	104	69	128	20.01	4.11	20	
Bromomethane	20.850	1.0	20.00	0	104	53	141	20.38	2.28	20	
Carbon disulfide	20.330	1.0	20.00	0	102	75	125	20.62	1.42	20	
Carbon tetrachloride	23.380	1.0	20.00	1.380	110	66	138	22.99	1.68	20	
Chlorobenzene	19.450	1.0	20.00	0	97.3	81	122	19.72	1.38	20	
Chloroethane	19.910	1.0	20.00	0	99.6	58	133	20.13	1.10	20	
Chloroform	19.010	1.0	20.00	0	95.1	69	128	19.02	0.0526	20	
Chloromethane	17.710	1.0	20.00	0	88.6	56	131	17.83	0.675	20	
cis-1,2-Dichloroethene	18.240	1.0	20.00	0	91.2	72	126	18.35	0.601	20	
cis-1,3-Dichloropropene	18.940	1.0	20.00	0	94.7	69	131	18.57	1.97	20	
Di-isopropyl ether	20.370	1.0	20.00	0	102	70	130	19.19	5.97	20	
Dibromochloromethane	20.670	1.0	20.00	0	103	66	133	19.90	3.80	20	
Dibromomethane	20.060	1.0	20.00	0	100	76	125	19.46	3.04	20	
Dichlorodifluoromethane	19.540	1.0	20.00	0	97.7	53	153	19.92	1.93	20	
Ethyl tert-butyl ether	19.550	1.0	20.00	0	97.8	70	130	19.22	1.70	20	
Ethylbenzene	19.700	1.0	20.00	0	98.5	73	127	19.76	0.304	20	
Freon-113	28.920	1.0	20.00	10.45	92.4	75	125	29.49	1.95	20	
Hexachlorobutadiene	18.260	1.0	20.00	0	91.3	67	131	18.50	1.31	20	
Isopropylbenzene	19.990	1.0	20.00	0	100	75	127	19.94	0.250	20	
m,p-Xylene	40.640	1.0	40.00	0	102	76	128	40.33	0.766	20	
Methylene chloride	19.370	2.0	20.00	0	96.9	63	137	19.88	2.60	20	
MTBE	19.920	1.0	20.00	0	99.6	65	123	20.06	0.700	20	
n-Butylbenzene	19.780	1.0	20.00	0	98.9	69	137	19.82	0.202	20	
n-Propylbenzene	20.120	1.0	20.00	0	101	72	129	19.82	1.50	20	
Naphthalene	21.830	1.0	20.00	0	109	54	138	21.53	1.38	20	
o-Xylene	20.230	1.0	20.00	0	101	80	121	20.12	0.545	20	
sec-Butylbenzene	19.890	1.0	20.00	0	99.4	72	127	19.69	1.01	20	

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010233-001FMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88883**
Client ID: **ZZZZZZ** Batch ID: **P13VW068** TestNo: **EPA 8260B** Analysis Date: **5/16/2013** SeqNo: **1577233**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	19.110	1.0	20.00	0	95.6	65	134	18.90	1.10	20	
Tert-amyl methyl ether	19.430	1.0	20.00	0	97.2	70	130	19.13	1.56	20	
Tert-Butanol	120.500	5.0	100.0	0	120	70	130	114.2	5.35	20	
tert-Butylbenzene	20.070	1.0	20.00	0	100	70	129	19.89	0.901	20	
Tetrachloroethene	20.590	1.0	20.00	0	103	66	128	21.24	3.11	20	
Toluene	19.780	2.0	20.00	0	98.9	77	122	19.67	0.558	20	
trans-1,2-Dichloroethene	20.170	1.0	20.00	0	101	63	137	20.16	0.0496	20	
trans-1,3-Dichloropropene	20.030	1.0	20.00	0	100	59	135	19.23	4.08	20	
Trichloroethene	19.200	1.0	20.00	0	96.0	70	127	18.62	3.07	20	
Trichlorofluoromethane	20.410	1.0	20.00	0.6200	99.0	57	129	20.88	2.28	20	
Vinyl chloride	19.790	1.0	20.00	0	99.0	50	134	20.09	1.50	20	
Xylenes, Total	60.870	2.0	60.00	0	101	75	125	60.45	0.692	20	
Surr: 1,2-Dichloroethane-d4	25.580		25.00		102	72	119		0		
Surr: 4-Bromofluorobenzene	26.510		25.00		106	76	119		0		
Surr: Dibromofluoromethane	24.720		25.00		98.9	85	115		0		
Surr: Toluene-d8	26.350		25.00		105	81	120		0		

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130516LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88903**
Client ID: **LCSW** Batch ID: **P13VW069** TestNo: **EPA 8260B** Analysis Date: **5/16/2013** SeqNo: **1578349**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.610	1.0	20.00	0	103	81	129				
1,1,1-Trichloroethane	18.740	1.0	20.00	0	93.7	67	132				
1,1,2,2-Tetrachloroethane	19.650	1.0	20.00	0	98.2	63	128				
1,1,2-Trichloroethane	19.760	1.0	20.00	0	98.8	75	125				
1,1-Dichloroethane	18.530	0.50	20.00	0	92.6	69	133				
1,1-Dichloroethene	19.540	1.0	20.00	0	97.7	68	130				
1,1-Dichloropropene	19.780	1.0	20.00	0	98.9	73	132				
1,2,3-Trichlorobenzene	20.670	1.0	20.00	0	103	67	137				
1,2,3-Trichloropropane	20.140	1.0	20.00	0	101	73	124				
1,2,4-Trichlorobenzene	20.670	1.0	20.00	0	103	66	134				
1,2,4-Trimethylbenzene	20.510	1.0	20.00	0	103	74	132				
1,2-Dibromo-3-chloropropane	17.690	2.0	20.00	0	88.4	50	132				
1,2-Dibromoethane	20.540	1.0	20.00	0	103	80	121				
1,2-Dichlorobenzene	20.140	1.0	20.00	0	101	71	122				
1,2-Dichloroethane	20.780	0.50	20.00	0	104	69	132				
1,2-Dichloropropane	19.460	1.0	20.00	0	97.3	75	125				
1,3,5-Trimethylbenzene	20.670	1.0	20.00	0	103	74	131				
1,3-Dichlorobenzene	20.020	1.0	20.00	0	100	75	124				
1,3-Dichloropropane	19.850	1.0	20.00	0	99.2	73	126				
1,4-Dichlorobenzene	19.650	1.0	20.00	0	98.2	74	123				
2,2-Dichloropropane	21.780	1.0	20.00	0	109	69	137				
2-Butanone	262.300	10	200.0	0	131	49	136				
2-Chlorotoluene	20.250	1.0	20.00	0	101	73	126				
4-Chlorotoluene	20.480	1.0	20.00	0	102	74	128				
4-Isopropyltoluene	20.670	1.0	20.00	0	103	73	130				
4-Methyl-2-pentanone	223.300	10	200.0	0	112	58	134				
Acetone	426.800	10	200.0	0	213	40	135				S
Acrolein	203.670	20	200.0	0	102	75	125				
Acrylonitrile	192.310	20	200.0	0	96.2	75	125				
Benzene	19.790	1.0	20.00	0	99.0	81	122				

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130516LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88903**
Client ID: **LCSW** Batch ID: **P13VW069** TestNo: **EPA 8260B** Analysis Date: **5/16/2013** SeqNo: **1578349**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	19.990	1.0	20.00	0	100	76	124				
Bromochloromethane	17.920	1.0	20.00	0	89.6	65	129				
Bromodichloromethane	20.750	1.0	20.00	0	104	76	121				
Bromoform	19.710	1.0	20.00	0	98.6	69	128				
Bromomethane	20.630	1.0	20.00	0	103	53	141				
Carbon disulfide	19.960	1.0	20.00	0	99.8	75	125				
Carbon tetrachloride	21.400	1.0	20.00	0	107	66	138				
Chlorobenzene	20.060	1.0	20.00	0	100	81	122				
Chloroethane	19.500	1.0	20.00	0	97.5	58	133				
Chloroform	18.360	1.0	20.00	0	91.8	69	128				
Chloromethane	17.020	1.0	20.00	0	85.1	56	131				
cis-1,2-Dichloroethene	18.060	1.0	20.00	0	90.3	72	126				
cis-1,3-Dichloropropene	19.920	1.0	20.00	0	99.6	69	131				
Di-isopropyl ether	18.480	1.0	20.00	0	92.4	70	130				
Dibromochloromethane	20.100	1.0	20.00	0	101	66	133				
Dibromomethane	20.060	1.0	20.00	0	100	76	125				
Dichlorodifluoromethane	19.780	1.0	20.00	0	98.9	53	153				
Ethyl tert-butyl ether	19.290	1.0	20.00	0	96.5	70	130				
Ethylbenzene	19.940	1.0	20.00	0	99.7	73	127				
Freon-113	20.160	1.0	20.00	0	101	75	125				
Hexachlorobutadiene	20.330	1.0	20.00	0	102	67	131				
Isopropylbenzene	20.160	1.0	20.00	0	101	75	127				
m,p-Xylene	41.500	1.0	40.00	0	104	76	128				
Methylene chloride	20.530	2.0	20.00	0	103	63	137				
MTBE	18.480	1.0	20.00	0	92.4	65	123				
n-Butylbenzene	20.830	1.0	20.00	0	104	69	137				
n-Propylbenzene	20.430	1.0	20.00	0	102	72	129				
Naphthalene	21.580	1.0	20.00	0	108	54	138				
o-Xylene	20.520	1.0	20.00	0	103	80	121				
sec-Butylbenzene	20.420	1.0	20.00	0	102	72	127				

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130516LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88903**
Client ID: **LCSW** Batch ID: **P13VW069** TestNo: **EPA 8260B** Analysis Date: **5/16/2013** SeqNo: **1578349**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	20.480	1.0	20.00	0	102	65	134				
Tert-amyl methyl ether	19.250	1.0	20.00	0	96.2	70	130				
Tert-Butanol	101.180	5.0	100.0	0	101	70	130				
tert-Butylbenzene	20.400	1.0	20.00	0	102	70	129				
Tetrachloroethene	20.920	1.0	20.00	0	105	66	128				
Toluene	19.740	2.0	20.00	0	98.7	77	122				
trans-1,2-Dichloroethene	19.030	1.0	20.00	0	95.2	63	137				
trans-1,3-Dichloropropene	20.670	1.0	20.00	0	103	59	135				
Trichloroethene	19.580	1.0	20.00	0	97.9	70	127				
Trichlorofluoromethane	20.260	1.0	20.00	0	101	57	129				
Vinyl chloride	19.800	1.0	20.00	0	99.0	50	134				
Xylenes, Total	62.020	2.0	60.00	0	103	75	125				
Surr: 1,2-Dichloroethane-d4	24.910		25.00		99.6	72	119				
Surr: 4-Bromofluorobenzene	26.210		25.00		105	76	119				
Surr: Dibromofluoromethane	24.060		25.00		96.2	85	115				
Surr: Toluene-d8	25.510		25.00		102	81	120				

Sample ID: **P130516MB3** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88903**
Client ID: **PBW** Batch ID: **P13VW069** TestNo: **EPA 8260B** Analysis Date: **5/16/2013** SeqNo: **1578350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130516MB3** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88903**
Client ID: **PBW** Batch ID: **P13VW069** TestNo: **EPA 8260B** Analysis Date: **5/16/2013** SeqNo: **1578350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Acrolein	ND	20									
Acrylonitrile	ND	20									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130516MB3** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88903**
Client ID: **PBW** Batch ID: **P13VW069** TestNo: **EPA 8260B** Analysis Date: **5/16/2013** SeqNo: **1578350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	2.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N010243
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130516MB3** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **88903**
Client ID: **PBW** Batch ID: **P13VW069** TestNo: **EPA 8260B** Analysis Date: **5/16/2013** SeqNo: **1578350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	26.940		25.00		108	72	119				
Surr: 4-Bromofluorobenzene	25.820		25.00		103	76	119				
Surr: Dibromofluoromethane	25.850		25.00		103	85	115				
Surr: Toluene-d8	26.020		25.00		104	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
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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: 5/14/13
PAGE: 1 OF 1

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

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

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TPH - g, TPH-d, and TPH-oil (8015M)	Full VOC+ Oxygenates List (8260B)	Comments
	INF-DS-14	Influent	5/14/13	1210	WW	8	X	X	N010293-1

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	Abner Mangnik	5/14/13	13:46
Abner Mangnik 14:17	C. Byrd	5/14/13	1417
	J. Dungalang	5/15/13	0900

3.8°C
IEA1

Revised: 07/19/2012

Advanced Technology Laboratories, Inc.

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

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

Cooler Received/Opened On:	5/15/2013	Workorder:	N010243
Rep sample Temp (Deg C):	3.8	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Ontrac		
Last 4 digits of Tracking No.:	0692	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments:

Checklist Completed By MBC MBC 5/15/13 Reviewed By:

Advanced Technology Laboratories, Inc.

WORK ORDER Summary

15-May-13

WorkOrder: N010243

Client ID: CH2HI01

Project: SFPP - Norwalk Site **QC Level:** RTNE **Date Received:** 5/15/2013

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

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N010243-001A	INF-05-14	5/14/2013 12:10:00 PM	5/22/2013	Wastewater	EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	☐	☐	☐	WW
			5/22/2013		EPA 8015B	TPH EXTRACTABLE BY GC/FID	☐	☐	☐	WW
			5/22/2013		EPA 8015B	Total TPH	☐	☐	☐	WW
N010243-001B			5/22/2013		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WV
N010243-001C			5/22/2013		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WV
N010243-002A	FOLDER		5/22/2013		Folder	Folder	☐	☐	☐	LAB

OnTrac
On Time Delivery For Less

800.334.5000
ontrac.com

Waybill

1a. OnTrac Account Number

Tracking Number
B10290520692

1b. Date
05 4 13

Pre-Print Number

2. FROM (Company)
ENVIRO TREATMENT & TECHNOLOGY

Street Address
1625 WALNUT AVE Suite

City
SIGNAL HILL

State ZIP Code Phone Number
CA 90755

PLEASE PRINT IN BLOCK LETTERS WITH BLUE OR BLACK INK ONLY

3. TO (Company) WE CANNOT DELIVER TO P.O. BOXES OR P.O. ZIP CODES
ATL

Street Address
151 W POST RD

Suite City
LAS VEGAS

State ZIP Code Phone Number
NV 89119 702 307 2659

Recipient's Name
APPLE RECEIVING

4. Shipper's Reference Number
NEW PILOT 13

5. WEIGHT
SUBJECT TO VERIFICATION
8 oz. Letter or
2

6. SERVICE LEVEL
GUARANTEED TIMES MAY VARY
Sunrise
NEXT BUSINESS MORNING
Sunrise Gold
EARLY NEXT BUSINESS MORNING
Palletized Freight
NEXT BUSINESS DAY

7. SERVICE OPTIONS
ADDITIONAL CHARGES MAY APPLY
Signature Required
Saturday Delivery
AVAILABLE IN SELECT ZIP CODES
Hold for Pickup
AT DESTINATION'S NEAREST FACILITY

8. COLLECT ON DELIVERY
$10,000 LIMIT. PLEASE ATTACH COD TAG. ADDITIONAL CHARGE APPLIES

SECURED PAYMENT $
UNSECURED PAYMENT

9. DECLARED VALUE
ADDITIONAL CHARGE APPLIES. LIABILITY LIMITED TO $100 UNLESS DECLARED. $25,000 LIABILITY LIMIT. SHIPMENTS WITH A DECLARED VALUE REQUIRE A DELIVERY SIGNATURE.
$ .00

10. PAYMENT
Shipper Other Account

11a. Shipper's Name
C APPLICK

OnTrac Use: Driver Number / PU Time / Initials

11b. Shipper's Signature

Recipient Copy

May 30, 2013

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

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

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

Workorder No.: N010246

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on May 15, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

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

Sincerely,

Jose Tenorio Jr.
Laboratory Director

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

Advanced Technology Laboratories
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: 5/14/13
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**	FAX: **714-560-4601**	E-MAIL: james_dye@kindermorgan.com	

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TO-15	TO-3 (TPH-g)	ASTM-1946 (O2/Argon, CO2, CH4)										Comments
	VINF- 05-14	Influent Vapor (from header)	5/14/13	1145	Air	4	X	X	X			NDI0246+1							Monthly sample

Relinquished by: (Signature)	Received by: (Signature) ABNER MONTALVO	Date: 5/14/13	Time: 13:45
Relinquished by: (Signature) ABNER MONTALVO 14:47	Received by: (Signature) C. Brown	Date: 5/14/13	Time: 1417
Relinquished by: (Signature)	Received by: (Signature) Pingalang	Date: 5/15/13	Time: 9:00

Revised: 04/27/2011

Advanced Technology Laboratories, Inc.

WORK ORDER Summary

15-May-13

WorkOrder: N010246

Client ID: CH2HI01

Project: SFPP - Norwalk Site **QC Level:** RTNE **Date Received:** 5/15/2013

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

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N010246-001A	VINF-05-14	5/14/2013 11:45:00 AM	5/22/2013	Air	EPA TO15	SIM Mode	☐	☐	☑	SUB
			5/22/2013		EPA TO3	VOCs by GCMS	☐	☐	☑	SUB
N010246-001B			5/22/2013		ASTM D1946	VOCs by GCMS	☐	☐	☑	SUB
N010246-002A	FOLDER		5/22/2013		Folder	Folder	☐	☐	☐	LAB

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: James Dye

14-May-13

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA TO15	EPA TO3	
N010246-001A / VINF-05-14	Air	5/14/2013 11:45:00 AM	BAG	1	1	

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

Please use PO#: N010246 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by: Normal TAT

		Date/Time			Date/Time
Relinquished by:	NBCARTN [signature]	5/14/13 @1645	**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: J. D.

14-May-13

				Requested Tests		
Sample ID	**Matrix**	**Date Collected**	**Bottle Type**	**ASTM D1946**		
N010246-001B / VINF-05-14	Air	5/14/2013 11:45:00 AM	BAG	1		

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N010246 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by: Normal TAT
Please analyze for O2, Ar, CH4, and CO2.

		Date/Time			Date/Time
Relinquished by:	MBCARTIN	5/14/13@1645	**Received by:**		
Relinquished by:			**Received by:**		

AIR TECHNOLOGY
Laboratories, Inc.

May 28, 2013

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

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

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

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

LABORATORY TEST RESULTS

Project Reference: N010246
Lab Number: E051503-01

Enclosed are results for sample(s) received 5/15/13 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

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

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

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

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

E051503-01

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: J. D.

14-May-13

	Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: ASTM D1946		
01	N010246-001B / VINF-05-14	Air	5/14/2013 11:45:00 AM	BAG	1		

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N010246 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by: Normal TAT
Please analyze for O2, Ar, CH4, and CO2.

		Date/Time			Date/Time
Relinquished by:	MB CARTON	5/14/13 @ 1645	**Received by:**	via email	5/15/13
Relinquished by:			**Received by:**		

Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N010246
Date Received: 05/15/13
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	**E051503-01**							
Client Sample I.D.:	**N010246-001B / VINF-05-14**							
Date Sampled:	**05/14/13**							
Date Analyzed:	**05/17/13**							
QC Batch No.:	**130517GC8A1**							
Analyst Initials:	**MJ**							
Dilution Factor:	**1.0**							
ANALYTE	**Result % v/v**	**RL % v/v**						
Carbon Dioxide	1.6	0.010						
Oxygen/Argon	19	0.50						
Methane	0.017	0.0010						

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

Reviewed/Approved By: _____ Date 5-24-13
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 130517GC8A1
Matrix: Air
Units: % v/v

QC for ASTM D1946

Lab No.:	Method Blank		LCS		LCSD			
Date Analyzed:	05/17/13		05/17/13		05/17/13			
Analyst Initials:	MJ		MJ		MJ			
Datafile:	15may039		15may037		15may038			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	**Results**	**RL**	**% Rec.**	**Criteria**	**% Rec.**	**Criteria**	**%RPD**	**Criteria**
Carbon Dioxide	ND	0.010	97	70-130%	98	70-130%	1.4	<30
Oxygen/Argon	ND	0.50	99	70-130%	101	70-130%	1.8	<30
Methane	ND	0.0010	122	70-130%	120	70-130%	1.1	<30

ND = Not Detected (Below RL)

Reviewed/Approved By: _____ Date: 5-24-13

Mark J. Johnson
Operations Manager

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

ADVANCED TECHNOLOGY LABORATORIES

May 24, 2013

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No.: T104704502

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 : 1301413

Client Reference : [none]

Enclosed are the results for sample(s) received on May 14, 2013 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

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 05/24/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N010246-001A / VINF-05-14	1301413-01	Air	5/14/13 11:45	5/14/13 16:45

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 05/24/2013

Client Sample ID N010246-001A / VINF-05-14

Lab ID: 1301413-01

Volatile Organic Compounds in AIR by TO-15 **Analyst: DP**

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,1,1-Trichloroethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,1,2,2-Tetrachloroethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,1,2-Trichloroethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,1-Dichloroethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,1-Dichloroethene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,1-Dichloropropene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,2,3-Trichloropropane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,2,4-Trichlorobenzene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,2,4-Trimethylbenzene	**42**	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,2-Dibromo-3-chloropropane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,2-Dibromoethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,2-Dichlorobenzene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,2-Dichloroethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,2-Dichloropropane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,3,5-Trimethylbenzene	**20**	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,3-Butadiene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,3-Dichlorobenzene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,4-Dichlorobenzene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
1,4-Dioxane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
2,2,4-Trimethylpentane	**3100**	50	NA	200	B3E0316	05/14/2013	05/15/13 12:50	D2
2-Butanone	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
2-Chloroethyl vinyl ether	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
2-Chlorotoluene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
2-Hexanone	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
2-Propanol	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
4-Chlorotoluene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
4-Ethyl Toluene	**16**	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
4-Methyl-2-pentanone	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Acetone	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Acetonitrile	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Acrolein	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Acrylonitrile	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Benzene	**1700**	50	NA	200	B3E0316	05/14/2013	05/15/13 12:50	D2
Benzyl chloride	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Bromobenzene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Bromodichloromethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 05/24/2013

Client Sample ID N010246-001A / VINF-05-14

Lab ID: 1301413-01

Volatile Organic Compounds in AIR by TO-15 **Analyst: DP**

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromoform	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Bromomethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Carbon disulfide	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Carbon tetrachloride	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Chlorobenzene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Chloroethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Chloroform	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Chloromethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
cis-1,2-Dichloroethene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
cis-1,3-Dichloropropene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Cyclohexane	**1900**	50	NA	200	B3E0316	05/14/2013	05/15/13 12:50	D2
Dibromochloromethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Dibromomethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Dichlorodifluoromethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Dichlorotetrafluoroethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Ethanol	**78**	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Ethylbenzene	**190**	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Freon-113	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Hexachlorobutadiene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Isopropylbenzene	**13**	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
m,p-Xylene	**610**	25	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Methylene chloride	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
MTBE	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
n-Butylbenzene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
n-Propylbenzene	**18**	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Naphthalene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
o-Xylene	**230**	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
p-Isopropyltoluene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
sec-Butylbenzene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Styrene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
tert-Butylbenzene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Tetrachloroethene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Toluene	**1800**	50	NA	200	B3E0316	05/14/2013	05/15/13 12:50	D2
trans-1,2-Dichloroethene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
trans-1,3-Dichloropropene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Trichloroethene	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Trichlorofluoromethane	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 05/24/2013

Client Sample ID N010246-001A / VINF-05-14

Lab ID: 1301413-01

Volatile Organic Compounds in AIR by TO-15

Analyst: DP

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Vinyl acetate	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Vinyl chloride	ND	12	NA	50	B3E0316	05/14/2013	05/15/13 13:42	
Surrogate: 4-Bromofluorobenzene	*110 %*	*70 - 130*			B3E0316	05/14/2013	*05/15/13 13:42*	
Surrogate: 4-Bromofluorobenzene	*114 %*	*70 - 130*			B3E0316	05/14/2013	*05/15/13 12:50*	

Gasoline Range Organics in Air by TO-3

Analyst: DP

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	**280000**	25000	NA	1000	B3E0347	05/16/2013	05/16/13 14:13	D2
Surrogate: 4-Bromofluorobenzene	*114 %*	*70 - 130*			B3E0347	05/16/2013	*05/16/13 14:13*	

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 05/24/2013

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 B3E0316 - No_Prep_Air									
Blank (B3E0316-BLK1)				Prepared: 5/14/2013 Analyzed: 5/14/2013					
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				

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 05/24/2013

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 B3E0316 - No_Prep_Air (continued)									
Blank (B3E0316-BLK1) - Continued				Prepared: 5/14/2013 Analyzed: 5/14/2013					
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	0.50			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	*2.790*		*2.50000*		*112*	*70 - 130*			
LCS (B3E0316-BS1)				Prepared: 5/14/2013 Analyzed: 5/14/2013					
1,1-Dichloroethane	1.65000	0.25	2.00000		82.5	70 - 130			

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 05/24/2013

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 B3E0316 - No_Prep_Air (continued)									
LCS (B3E0316-BS1) - Continued				Prepared: 5/14/2013 Analyzed: 5/14/2013					
Benzene	1.85000	0.25	2.00000		92.5	70 - 130			
Chloroform	1.56000	0.25	2.00000		78.0	70 - 130			
o-Xylene	1.70000	0.25	2.00000		85.0	70 - 130			
Tetrachloroethene	1.58000	0.25	2.00000		79.0	70 - 130			
Toluene	1.77000	0.25	2.00000		88.5	70 - 130			
Trichloroethene	1.55000	0.25	2.00000		77.5	70 - 130			
Vinyl chloride	1.72000	0.25	2.00000		86.0	70 - 130			
Surrogate: 4-Bromofluorobenzene	*2.740*		*2.50000*		*110*	*70 - 130*			
LCS Dup (B3E0316-BSD1)				Prepared: 5/14/2013 Analyzed: 5/14/2013					
1,1-Dichloroethane	1.58000	0.25	2.00000		79.0	70 - 130	4.33	20	
Benzene	1.79000	0.25	2.00000		89.5	70 - 130	3.30	20	
Chloroform	1.51000	0.25	2.00000		75.5	70 - 130	3.26	20	
o-Xylene	1.68000	0.25	2.00000		84.0	70 - 130	1.18	20	
Tetrachloroethene	1.58000	0.25	2.00000		79.0	70 - 130	0.00	20	
Toluene	1.73000	0.25	2.00000		86.5	70 - 130	2.29	20	
Trichloroethene	1.49000	0.25	2.00000		74.5	70 - 130	3.95	20	
Vinyl chloride	1.68000	0.25	2.00000		84.0	70 - 130	2.35	20	
Surrogate: 4-Bromofluorobenzene	*2.760*		*2.50000*		*110*	*70 - 130*			

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 05/24/2013

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

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3E0347 - No_Prep_Air									
Blank (B3E0347-BLK1)				Prepared: 5/16/2013 Analyzed: 5/16/2013					
Gasoline Range Organics	ND	25			NR				
Surrogate: 4-Bromofluorobenzene	*2.450*		*2.50000*		*98.0*	*70 - 130*			
LCS (B3E0347-BS1)				Prepared: 5/16/2013 Analyzed: 5/16/2013					
Gasoline Range Organics	212.490	25			NR	70 - 130			
Surrogate: 4-Bromofluorobenzene	*2.710*		*2.50000*		*108*	*70 - 130*			
LCS Dup (B3E0347-BSD1)				Prepared: 5/16/2013 Analyzed: 5/16/2013					
Gasoline Range Organics	211.000	25			NR	70 - 130	0.704	20	
Surrogate: 4-Bromofluorobenzene	*2.580*		*2.50000*		*103*	*70 - 130*			

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 05/24/2013

Notes and Definitions

D2	Sample required dilution due to high concentration of non-target analyte.
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)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

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: James Dye

14-May-13

	Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests EPA TO15	EPA TO3	
1305413-01	N010246-001A / VINF-05-14	Air	5/14/2013 11:45:00 AM	BAG	1	1	

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

Please use PO#: N010246 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by: Normal TAT

		Date/Time			Date/Time
Relinquished by:	ANN CARLTON	5/14/13 @1645	**Received by:**		5/14/13 1645
Relinquished by:			**Received by:**		

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: 5/14/13
PAGE: 1 OF 1

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

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

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL __/__/__

SPECIAL INSTRUCTIONS:
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TO-15	TO-3 (TPH-g)	ASTM-1946 (O2/Argon, CO2, CH4)	Comments
	VINF-05-14	Influent Vapor (from header)	5/14/13	1145	Air	4	X	X	X	Monthly sample

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Abner Mangahas	5/14/13	13:45
Abner Mangahas 14:17	[signature]	5/14/13	1417

Revised: 04/27/2011

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: 5/14/13

PAGE: 1 OF 1

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

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

TURNAROUND TIME
☐ SAME DAY ■ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MAT-RIX	NO. OF CONT.	MTBE, TBA, and MEK(8260B)	BTEX, and Total Xylenes (8260B)	1,1-DCA and 1,2-DCA (8260B)	Comments
	MP1-05-14	Midpoint PRS GAC1	5/14/13	1140	WW	3	X	X	X	
	INF_FBBR-05-14	Influent to FBBR	↓	↓	WW	3	X	X	X	
	EFF_FBBR1-05-14	Effluent from FBBR1			WW	3	X	X	X	
	EFF_FBBR2-05-14	Effluent from FBBR2			WW	3	X	X	X	
	EFF_POL1-05-14	GAC Polishing Midpoint	↓	↓	WW	3	X	X	X	

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	[illegible] Marlin	5/14/13	13:46
Relinquished by: (Signature) Aaron Marlin 1417		5/14/13	1417
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 07/19/2012

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: 5/14/13
PAGE: 1 OF 1

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

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

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TPH - g, TPH-d, and TPH-oil (8015M)	Full VOC+ Oxygenates List (8260B)	Comments
	INF-05-14	Influent	5/14/13	1210	WW	8	X	X	

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/14/13	Time: 13:46
Relinquished by: (Signature) ABMER MANGALIK 14:17	Received by: (Signature) U. Ayala	Date: 5/14/13	Time: 1417
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 07/19/2012

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: 5-14-13

PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh
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CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site
PROJECT CONTACT: James Dye
SAMPLER(S): (SIGNATURE)
P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ■ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MAT-RIX	NO. OF CONT.	Oil & Grease (1664)	TPH-g (C5-C14 Only) (8015B (M))	BTEX;1,1-DCA;1,2-DCA;MEK(8260B)	Settleable Solids (2540F)	Total Suspended Solids (2540D)	Phenolics (420.1)	Cr(VI),Cu(7199,6020)	Se (6020) 24 HR TAT	Hg (7470A) 24 HR TAT	MTBE (8260B) 24 Hour TAT			Comments
	~~EFF-~~	~~Effluent~~			WW	14	X	X	X	X	X	X	X	X	X	X			Temperature* = ___
	EFF-05-14		5/14/13	12:50	WW	1							X						Temperature* = ___
																			(Temp. as sampled)*
																			Monthly

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	ABTER MANGAHAS	5/14/13	13:46
Relinquished by: (Signature) ABTER MANGAHAS 1417	Received by: (Signature)	Date: 5/14/13	Time: 1417
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 04/27/2011

July 08, 2013

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

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

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

Workorder No.: N010486

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on June 29, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Jose Tenorio Jr.
Laboratory Director

Advanced Technology Laboratories, Inc.

Date: *08-Jul-13*

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N010486
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N010486-001A	INF-06-28	Wastewater	6/28/2013 3:10:00 PM	6/29/2013	7/8/2013
N010486-001B	INF-06-28	Wastewater	6/28/2013 3:10:00 PM	6/29/2013	7/8/2013
N010486-001C	INF-06-28	Wastewater	6/28/2013 3:10:00 PM	6/29/2013	7/8/2013

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N010486

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.

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: N010486
Project: SFPP - Norwalk Site
Lab ID: N010486-001

Client Sample ID: INF-06-28
Collection Date: 6/28/2013 3:10:00 PM
Matrix: WASTEWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_130704A** QC Batch: **P13VW104** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.068	1.0		ug/L	1	7/4/2013 03:47 PM
1,1,1-Trichloroethane	ND	0.072	1.0		ug/L	1	7/4/2013 03:47 PM
1,1,2,2-Tetrachloroethane	ND	0.10	1.0		ug/L	1	7/4/2013 03:47 PM
1,1,2-Trichloroethane	ND	0.13	1.0		ug/L	1	7/4/2013 03:47 PM
1,1-Dichloroethane	ND	0.062	0.50		ug/L	1	7/4/2013 03:47 PM
1,1-Dichloroethene	ND	0.16	1.0		ug/L	1	7/4/2013 03:47 PM
1,1-Dichloropropene	ND	0.073	1.0		ug/L	1	7/4/2013 03:47 PM
1,2,3-Trichlorobenzene	ND	0.084	1.0		ug/L	1	7/4/2013 03:47 PM
1,2,3-Trichloropropane	ND	0.11	1.0		ug/L	1	7/4/2013 03:47 PM
1,2,4-Trichlorobenzene	ND	0.10	1.0		ug/L	1	7/4/2013 03:47 PM
1,2,4-Trimethylbenzene	11	0.036	1.0		ug/L	1	7/4/2013 03:47 PM
1,2-Dibromo-3-chloropropane	ND	0.34	2.0		ug/L	1	7/4/2013 03:47 PM
1,2-Dibromoethane	ND	0.090	1.0		ug/L	1	7/4/2013 03:47 PM
1,2-Dichlorobenzene	ND	0.048	1.0		ug/L	1	7/4/2013 03:47 PM
1,2-Dichloroethane	0.34	0.044	0.50	J	ug/L	1	7/4/2013 03:47 PM
1,2-Dichloropropane	ND	0.094	1.0		ug/L	1	7/4/2013 03:47 PM
1,3,5-Trimethylbenzene	5.6	0.054	1.0		ug/L	1	7/4/2013 03:47 PM
1,3-Dichlorobenzene	ND	0.061	1.0		ug/L	1	7/4/2013 03:47 PM
1,3-Dichloropropane	ND	0.081	1.0		ug/L	1	7/4/2013 03:47 PM
1,4-Dichlorobenzene	ND	0.078	1.0		ug/L	1	7/4/2013 03:47 PM
2,2-Dichloropropane	ND	0.061	1.0		ug/L	1	7/4/2013 03:47 PM
2-Butanone	ND	0.70	10		ug/L	1	7/4/2013 03:47 PM
2-Chlorotoluene	ND	0.054	1.0		ug/L	1	7/4/2013 03:47 PM
4-Chlorotoluene	ND	0.039	1.0		ug/L	1	7/4/2013 03:47 PM
4-Isopropyltoluene	ND	0.044	1.0		ug/L	1	7/4/2013 03:47 PM
4-Methyl-2-pentanone	ND	0.59	10		ug/L	1	7/4/2013 03:47 PM
Acetone	3.0	1.2	10	J	ug/L	1	7/4/2013 03:47 PM
Acrolein	ND	0.89	20		ug/L	1	7/4/2013 03:47 PM
Acrylonitrile	ND	0.68	20		ug/L	1	7/4/2013 03:47 PM
Benzene	1100	2.4	50		ug/L	50	7/5/2013 02:26 PM
Bromobenzene	ND	0.054	1.0		ug/L	1	7/4/2013 03:47 PM
Bromochloromethane	ND	0.15	1.0		ug/L	1	7/4/2013 03:47 PM
Bromodichloromethane	ND	0.048	1.0		ug/L	1	7/4/2013 03:47 PM
Bromoform	ND	0.18	1.0		ug/L	1	7/4/2013 03:47 PM
Bromomethane	ND	0.13	1.0		ug/L	1	7/4/2013 03:47 PM
Carbon disulfide	ND	0.040	1.0		ug/L	1	7/4/2013 03:47 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

CLIENT: CH2M HILL
Lab Order: N010486
Project: SFPP - Norwalk Site
Lab ID: N010486-001

Client Sample ID: INF-06-28
Collection Date: 6/28/2013 3:10:00 PM
Matrix: WASTEWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_130704A** QC Batch: **P13VW104** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
Carbon tetrachloride	ND	0.057	1.0		ug/L	1	7/4/2013 03:47 PM
Chlorobenzene	ND	0.044	1.0		ug/L	1	7/4/2013 03:47 PM
Chloroethane	ND	0.17	1.0		ug/L	1	7/4/2013 03:47 PM
Chloroform	ND	0.048	1.0		ug/L	1	7/4/2013 03:47 PM
Chloromethane	ND	0.043	1.0		ug/L	1	7/4/2013 03:47 PM
cis-1,2-Dichloroethene	ND	0.057	1.0		ug/L	1	7/4/2013 03:47 PM
cis-1,3-Dichloropropene	ND	0.051	1.0		ug/L	1	7/4/2013 03:47 PM
Di-isopropyl ether	11	0.038	1.0		ug/L	1	7/4/2013 03:47 PM
Dibromochloromethane	ND	0.070	1.0		ug/L	1	7/4/2013 03:47 PM
Dibromomethane	ND	0.11	1.0		ug/L	1	7/4/2013 03:47 PM
Dichlorodifluoromethane	ND	0.054	1.0		ug/L	1	7/4/2013 03:47 PM
Ethyl tert-butyl ether	ND	0.061	1.0		ug/L	1	7/4/2013 03:47 PM
Ethylbenzene	18	0.036	1.0		ug/L	1	7/4/2013 03:47 PM
Freon-113	ND	0.15	1.0		ug/L	1	7/4/2013 03:47 PM
Hexachlorobutadiene	ND	0.070	1.0		ug/L	1	7/4/2013 03:47 PM
Isopropylbenzene	7.4	0.073	1.0		ug/L	1	7/4/2013 03:47 PM
m,p-Xylene	59	0.14	1.0		ug/L	1	7/4/2013 03:47 PM
Methylene chloride	ND	0.28	2.0		ug/L	1	7/4/2013 03:47 PM
MTBE	92	0.098	1.0		ug/L	1	7/4/2013 03:47 PM
n-Butylbenzene	1.2	0.076	1.0		ug/L	1	7/4/2013 03:47 PM
n-Propylbenzene	17	0.049	1.0		ug/L	1	7/4/2013 03:47 PM
Naphthalene	51	0.10	1.0		ug/L	1	7/4/2013 03:47 PM
o-Xylene	17	0.042	1.0		ug/L	1	7/4/2013 03:47 PM
sec-Butylbenzene	1.1	0.036	1.0		ug/L	1	7/4/2013 03:47 PM
Styrene	ND	0.040	1.0		ug/L	1	7/4/2013 03:47 PM
Tert-amyl methyl ether	ND	0.054	1.0		ug/L	1	7/4/2013 03:47 PM
Tert-Butanol	500	10	50		ug/L	10	7/5/2013 02:53 PM
tert-Butylbenzene	ND	0.040	1.0		ug/L	1	7/4/2013 03:47 PM
Tetrachloroethene	ND	0.12	1.0		ug/L	1	7/4/2013 03:47 PM
Toluene	58	0.034	2.0		ug/L	1	7/4/2013 03:47 PM
trans-1,2-Dichloroethene	ND	0.11	1.0		ug/L	1	7/4/2013 03:47 PM
trans-1,3-Dichloropropene	ND	0.060	1.0		ug/L	1	7/4/2013 03:47 PM
Trichloroethene	ND	0.075	1.0		ug/L	1	7/4/2013 03:47 PM
Trichlorofluoromethane	ND	0.057	1.0		ug/L	1	7/4/2013 03:47 PM
Vinyl chloride	ND	0.082	1.0		ug/L	1	7/4/2013 03:47 PM
Xylenes, Total	76	1.5	2.0		ug/L	1	7/4/2013 03:47 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

CLIENT: CH2M HILL
Lab Order: N010486
Project: SFPP - Norwalk Site
Lab ID: N010486-001

Client Sample ID: INF-06-28
Collection Date: 6/28/2013 3:10:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_130704A**	QC Batch: **P13VW104**			PrepDate:			Analyst: **QBM**
Surr: 1,2-Dichloroethane-d4	103	0	72-119		%REC	10	7/5/2013 02:53 PM
Surr: 1,2-Dichloroethane-d4	107	0	72-119		%REC	1	7/4/2013 03:47 PM
Surr: 1,2-Dichloroethane-d4	101	0	72-119		%REC	50	7/5/2013 02:26 PM
Surr: 4-Bromofluorobenzene	100	0	76-119		%REC	10	7/5/2013 02:53 PM
Surr: 4-Bromofluorobenzene	101	0	76-119		%REC	1	7/4/2013 03:47 PM
Surr: 4-Bromofluorobenzene	101	0	76-119		%REC	50	7/5/2013 02:26 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	10	7/5/2013 02:53 PM
Surr: Dibromofluoromethane	101	0	85-115		%REC	50	7/5/2013 02:26 PM
Surr: Dibromofluoromethane	108	0	85-115		%REC	1	7/4/2013 03:47 PM
Surr: Toluene-d8	103	0	81-120		%REC	1	7/4/2013 03:47 PM
Surr: Toluene-d8	102	0	81-120		%REC	10	7/5/2013 02:53 PM
Surr: Toluene-d8	101	0	81-120		%REC	50	7/5/2013 02:26 PM
TPH EXTRACTABLE BY GC/FID							
	EPA 3510C		**EPA 8015B**				
RunID: **GC1_130703A**	QC Batch: **43341**			PrepDate:	**7/2/2013**		Analyst: **MDM**
TPH-Diesel (C13-C22)	870	13	51		ug/L	1	7/3/2013 12:57 PM
TPH-Oil (C23-C36)	150	9.8	51		ug/L	1	7/3/2013 12:57 PM
Surr: Octacosane	89.1	0	26-152		%REC	1	7/3/2013 12:57 PM
Surr: p-Terphenyl	108	0	57-132		%REC	1	7/3/2013 12:57 PM
GASOLINE RANGE ORGANICS BY GC/FID							
			EPA 8015B				
RunID: **GC4_130703A**	QC Batch: **E13VW038**			PrepDate:			Analyst: **QBM**
TPH-Gasoline (C4-C12)	2900	8.5	100		ug/L	1	7/3/2013 03:22 PM
Surr: Chlorobenzene - d5	107	0	74-138		%REC	1	7/3/2013 03:22 PM
TOTAL TPH							
			EPA 8015B				
RunID: **GC1_130703A**	QC Batch: **R89463**			PrepDate:	**7/2/2013**		Analyst: **MDM**
Total TPH	3920	13	100		ug/L	1	7/3/2013 12:57 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

CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: **MB-43341**	SampType: **MBLK**	TestCode: **8015_W_FP_**	Units: **ug/L**		Prep Date: **7/2/2013**			RunNo: **89463**				
Client ID: **PBW**	Batch ID: **43341**	TestNo: **EPA 8015B**	**EPA 3510C**		Analysis Date: **7/3/2013**			SeqNo: **1604285**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
TPH-Diesel (C13-C22)	ND	50										
TPH-Oil (C23-C36)	ND	50										
Surr: Octacosane	76.411		80.00		95.5	26	152					
Surr: p-Terphenyl	75.043		80.00		93.8	57	132					

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: **MB-43341**	SampType: **MBLK**	TestCode: **8015_W_SFP**	Units: **ug/L**		Prep Date: **7/2/2013**				RunNo: **89463**		
Client ID: **PBW**	Batch ID: **R89463**	TestNo: **EPA 8015B**			Analysis Date: **7/3/2013**				SeqNo: **1604287**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	ND	100									

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: **E130703LCS**	SampType: **LCS**	TestCode: **8015GAS_WS**	Units: **ug/L**	Prep Date:	RunNo: **89450**
Client ID: **LCSW**	Batch ID: **E13VW038**	TestNo: **EPA 8015B**		Analysis Date: **7/3/2013**	SeqNo: **1604128**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	900.000	100	1000	0	90.0	67	136				
Surr: Chlorobenzene - d5	47964.000		50000		95.9	74	138				

Sample ID: **E130703MB1**	SampType: **MBLK**	TestCode: **8015GAS_WS**	Units: **ug/L**	Prep Date:	RunNo: **89450**
Client ID: **PBW**	Batch ID: **E13VW038**	TestNo: **EPA 8015B**		Analysis Date: **7/3/2013**	SeqNo: **1604129**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	100									
Surr: Chlorobenzene - d5	51213.000		50000		102	74	138				

Sample ID: **N010479-021ADUP**	SampType: **DUP**	TestCode: **8015GAS_WS**	Units: **ug/L**	Prep Date:	RunNo: **89450**
Client ID: **ZZZZZZ**	Batch ID: **E13VW038**	TestNo: **EPA 8015B**		Analysis Date: **7/3/2013**	SeqNo: **1604131**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	100						0	0	0	
Surr: Chlorobenzene - d5	56020.000		50000		112	74	138		0	0	

Sample ID: **N010510-001BMS**	SampType: **MS**	TestCode: **8015GAS_WS**	Units: **ug/L**	Prep Date:	RunNo: **89450**
Client ID: **ZZZZZZ**	Batch ID: **E13VW038**	TestNo: **EPA 8015B**		Analysis Date: **7/3/2013**	SeqNo: **1604133**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	877.000	100	1000	0	87.7	67	136				
Surr: Chlorobenzene - d5	51966.000		50000		104	74	138				

Sample ID: **N010510-001BMSD**	SampType: **MSD**	TestCode: **8015GAS_WS**	Units: **ug/L**	Prep Date:	RunNo: **89450**
Client ID: **ZZZZZZ**	Batch ID: **E13VW038**	TestNo: **EPA 8015B**		Analysis Date: **7/3/2013**	SeqNo: **1604134**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	721.000	100	1000	0	72.1	67	136	877.0	19.5	30	

Qualifiers:

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

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: **N010510-001BMSD** SampType: **MSD** TestCode: **8015GAS_WS** Units: **ug/L** Prep Date: RunNo: **89450**
Client ID: **ZZZZZZ** Batch ID: **E13VW038** TestNo: **EPA 8015B** Analysis Date: **7/3/2013** SeqNo: **1604134**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	50433.000		50000		101	74	138		0	0	

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130704LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89447**
Client ID: **LCSW** Batch ID: **P13VW104** TestNo: **EPA 8260B** Analysis Date: **7/4/2013** SeqNo: **1604677**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	21.080	1.0	20.00	0	105	81	129				
1,1,1-Trichloroethane	19.720	1.0	20.00	0	98.6	67	132				
1,1,2,2-Tetrachloroethane	18.810	1.0	20.00	0	94.1	63	128				
1,1,2-Trichloroethane	19.340	1.0	20.00	0	96.7	75	125				
1,1-Dichloroethane	19.970	0.50	20.00	0	99.8	69	133				
1,1-Dichloroethene	19.410	1.0	20.00	0	97.0	68	130				
1,1-Dichloropropene	19.410	1.0	20.00	0	97.0	73	132				
1,2,3-Trichlorobenzene	19.990	1.0	20.00	0	100	67	137				
1,2,3-Trichloropropane	19.660	1.0	20.00	0	98.3	73	124				
1,2,4-Trichlorobenzene	20.710	1.0	20.00	0	104	66	134				
1,2,4-Trimethylbenzene	20.010	1.0	20.00	0	100	74	132				
1,2-Dibromo-3-chloropropane	20.490	2.0	20.00	0	102	50	132				
1,2-Dibromoethane	19.610	1.0	20.00	0	98.0	80	121				
1,2-Dichlorobenzene	20.260	1.0	20.00	0	101	71	122				
1,2-Dichloroethane	19.570	0.50	20.00	0	97.9	69	132				
1,2-Dichloropropane	19.880	1.0	20.00	0	99.4	75	125				
1,3,5-Trimethylbenzene	20.100	1.0	20.00	0	101	74	131				
1,3-Dichlorobenzene	20.190	1.0	20.00	0	101	75	124				
1,3-Dichloropropane	20.140	1.0	20.00	0	101	73	126				
1,4-Dichlorobenzene	19.830	1.0	20.00	0	99.2	74	123				
2,2-Dichloropropane	17.010	1.0	20.00	0	85.0	69	137				
2-Butanone	214.020	10	200.0	0	107	49	136				
2-Chlorotoluene	20.050	1.0	20.00	0	100	73	126				
4-Chlorotoluene	19.700	1.0	20.00	0	98.5	74	128				
4-Isopropyltoluene	20.010	1.0	20.00	0	100	73	130				
4-Methyl-2-pentanone	203.290	10	200.0	0	102	58	134				
Acetone	217.490	10	200.0	0	109	40	135				
Acrolein	184.170	20	200.0	0	92.1	75	125				
Acrylonitrile	196.090	20	200.0	0	98.0	75	125				
Benzene	19.690	1.0	20.00	0	98.4	81	122				

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130704LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89447**
Client ID: **LCSW** Batch ID: **P13VW104** TestNo: **EPA 8260B** Analysis Date: **7/4/2013** SeqNo: **1604677**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	20.420	1.0	20.00	0	102	76	124				
Bromochloromethane	19.490	1.0	20.00	0	97.5	65	129				
Bromodichloromethane	20.590	1.0	20.00	0	103	76	121				
Bromoform	21.680	1.0	20.00	0	108	69	128				
Bromomethane	19.460	1.0	20.00	0	97.3	53	141				
Carbon disulfide	20.020	1.0	20.00	0	100	75	125				
Carbon tetrachloride	20.550	1.0	20.00	0	103	66	138				
Chlorobenzene	20.240	1.0	20.00	0	101	81	122				
Chloroethane	20.620	1.0	20.00	0	103	58	133				
Chloroform	19.180	1.0	20.00	0	95.9	69	128				
Chloromethane	19.990	1.0	20.00	0	100	56	131				
cis-1,2-Dichloroethene	19.680	1.0	20.00	0	98.4	72	126				
cis-1,3-Dichloropropene	20.210	1.0	20.00	0	101	69	131				
Di-isopropyl ether	19.500	1.0	20.00	0	97.5	70	130				
Dibromochloromethane	21.260	1.0	20.00	0	106	66	133				
Dibromomethane	20.160	1.0	20.00	0	101	76	125				
Dichlorodifluoromethane	20.340	1.0	20.00	0	102	53	153				
Ethyl tert-butyl ether	19.810	1.0	20.00	0	99.0	70	130				
Ethylbenzene	19.940	1.0	20.00	0	99.7	73	127				
Freon-113	19.880	1.0	20.00	0	99.4	75	125				
Hexachlorobutadiene	20.200	1.0	20.00	0	101	67	131				
Isopropylbenzene	20.160	1.0	20.00	0	101	75	127				
m,p-Xylene	39.830	1.0	40.00	0	99.6	76	128				
Methylene chloride	19.450	2.0	20.00	0	97.3	63	137				
MTBE	18.610	1.0	20.00	0	93.0	65	123				
n-Butylbenzene	20.190	1.0	20.00	0	101	69	137				
n-Propylbenzene	20.020	1.0	20.00	0	100	72	129				
Naphthalene	20.380	1.0	20.00	0	102	54	138				
o-Xylene	19.750	1.0	20.00	0	98.8	80	121				
sec-Butylbenzene	19.800	1.0	20.00	0	99.0	72	127				

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130704LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89447**
Client ID: **LCSW** Batch ID: **P13VW104** TestNo: **EPA 8260B** Analysis Date: **7/4/2013** SeqNo: **1604677**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	20.400	1.0	20.00	0	102	65	134				
Tert-amyl methyl ether	19.500	1.0	20.00	0	97.5	70	130				
Tert-Butanol	94.000	5.0	100.0	0	94.0	70	130				
tert-Butylbenzene	19.920	1.0	20.00	0	99.6	70	129				
Tetrachloroethene	19.240	1.0	20.00	0	96.2	66	128				
Toluene	19.830	2.0	20.00	0	99.2	77	122				
trans-1,2-Dichloroethene	19.540	1.0	20.00	0	97.7	63	137				
trans-1,3-Dichloropropene	19.720	1.0	20.00	0	98.6	59	135				
Trichloroethene	20.800	1.0	20.00	0	104	70	127				
Trichlorofluoromethane	20.290	1.0	20.00	0	101	57	129				
Vinyl chloride	19.940	1.0	20.00	0	99.7	50	134				
Xylenes, Total	59.580	2.0	60.00	0	99.3	75	125				
Surr: 1,2-Dichloroethane-d4	24.550		25.00		98.2	72	119				
Surr: 4-Bromofluorobenzene	25.550		25.00		102	76	119				
Surr: Dibromofluoromethane	25.470		25.00		102	85	115				
Surr: Toluene-d8	25.190		25.00		101	81	120				

Sample ID: **P130704MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89447**
Client ID: **PBW** Batch ID: **P13VW104** TestNo: **EPA 8260B** Analysis Date: **7/4/2013** SeqNo: **1604678**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130704MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89447**
Client ID: **PBW** Batch ID: **P13VW104** TestNo: **EPA 8260B** Analysis Date: **7/4/2013** SeqNo: **1604678**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Acrolein	ND	20									
Acrylonitrile	ND	20									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130704MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89447**
Client ID: **PBW** Batch ID: **P13VW104** TestNo: **EPA 8260B** Analysis Date: **7/4/2013** SeqNo: **1604678**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	2.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									

Qualifiers:

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

Advanced Technology Laboratories, Inc.
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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130704MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89447**
Client ID: **PBW** Batch ID: **P13VW104** TestNo: **EPA 8260B** Analysis Date: **7/4/2013** SeqNo: **1604678**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	25.660		25.00		103	72	119				
Surr: 4-Bromofluorobenzene	25.950		25.00		104	76	119				
Surr: Dibromofluoromethane	25.820		25.00		103	85	115				
Surr: Toluene-d8	25.700		25.00		103	81	120				

Sample ID: **N010510-001CMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89447**
Client ID: **ZZZZZZ** Batch ID: **P13VW104** TestNo: **EPA 8260B** Analysis Date: **7/4/2013** SeqNo: **1604683**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.990	1.0	20.00	0	100	81	129				
1,1,1-Trichloroethane	19.520	1.0	20.00	0	97.6	67	132				
1,1,2,2-Tetrachloroethane	20.990	1.0	20.00	0	105	63	128				
1,1,2-Trichloroethane	20.050	1.0	20.00	0	100	75	125				
1,1-Dichloroethane	20.070	0.50	20.00	0	100	69	133				
1,1-Dichloroethene	19.400	1.0	20.00	0	97.0	68	130				
1,1-Dichloropropene	19.870	1.0	20.00	0	99.4	73	132				
1,2,3-Trichlorobenzene	19.430	1.0	20.00	0	97.2	67	137				
1,2,3-Trichloropropane	20.320	1.0	20.00	0	102	73	124				
1,2,4-Trichlorobenzene	19.590	1.0	20.00	0	98.0	66	134				
1,2,4-Trimethylbenzene	19.630	1.0	20.00	0	98.2	74	132				
1,2-Dibromo-3-chloropropane	20.670	2.0	20.00	0	103	50	132				
1,2-Dibromoethane	19.760	1.0	20.00	0	98.8	80	121				
1,2-Dichlorobenzene	19.860	1.0	20.00	0	99.3	71	122				
1,2-Dichloroethane	20.160	0.50	20.00	0	101	69	132				
1,2-Dichloropropane	20.040	1.0	20.00	0	100	75	125				
1,3,5-Trimethylbenzene	19.680	1.0	20.00	0	98.4	74	131				
1,3-Dichlorobenzene	19.590	1.0	20.00	0	98.0	75	124				

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010510-001CMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89447**
Client ID: **ZZZZZZ** Batch ID: **P13VW104** TestNo: **EPA 8260B** Analysis Date: **7/4/2013** SeqNo: **1604683**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	20.300	1.0	20.00	0	102	73	126				
1,4-Dichlorobenzene	19.220	1.0	20.00	0	96.1	74	123				
2,2-Dichloropropane	14.980	1.0	20.00	0	74.9	69	137				
2-Butanone	130.720	10	200.0	0	65.4	49	136				
2-Chlorotoluene	19.740	1.0	20.00	0	98.7	73	126				
4-Chlorotoluene	19.680	1.0	20.00	0	98.4	74	128				
4-Isopropyltoluene	19.560	1.0	20.00	0	97.8	73	130				
4-Methyl-2-pentanone	209.290	10	200.0	0	105	58	134				
Acetone	95.240	10	200.0	0	47.6	40	135				
Acrolein	182.620	20	200.0	0	91.3	75	125				
Acrylonitrile	204.360	20	200.0	0	102	75	125				
Benzene	20.170	1.0	20.00	0	101	81	122				
Bromobenzene	19.970	1.0	20.00	0	99.8	76	124				
Bromochloromethane	19.950	1.0	20.00	0	99.8	65	129				
Bromodichloromethane	20.130	1.0	20.00	0	101	76	121				
Bromoform	19.710	1.0	20.00	0	98.6	69	128				
Bromomethane	16.220	1.0	20.00	0	81.1	53	141				
Carbon disulfide	20.020	1.0	20.00	0	100	75	125				
Carbon tetrachloride	19.900	1.0	20.00	0	99.5	66	138				
Chlorobenzene	19.690	1.0	20.00	0	98.4	81	122				
Chloroethane	21.490	1.0	20.00	0	107	58	133				
Chloroform	19.290	1.0	20.00	0	96.5	69	128				
Chloromethane	22.310	1.0	20.00	0	112	56	131				
cis-1,2-Dichloroethene	19.420	1.0	20.00	0	97.1	72	126				
cis-1,3-Dichloropropene	19.470	1.0	20.00	0	97.4	69	131				
Di-isopropyl ether	20.020	1.0	20.00	0	100	70	130				
Dibromochloromethane	19.870	1.0	20.00	0	99.4	66	133				
Dibromomethane	20.330	1.0	20.00	0	102	76	125				
Dichlorodifluoromethane	19.350	1.0	20.00	0	96.8	53	153				
Ethyl tert-butyl ether	20.080	1.0	20.00	0	100	70	130				

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010510-001CMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89447**
Client ID: **ZZZZZZ** Batch ID: **P13VW104** TestNo: **EPA 8260B** Analysis Date: **7/4/2013** SeqNo: **1604683**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	19.370	1.0	20.00	0	96.9	73	127				
Freon-113	19.570	1.0	20.00	0	97.9	75	125				
Hexachlorobutadiene	18.390	1.0	20.00	0	92.0	67	131				
Isopropylbenzene	19.850	1.0	20.00	0	99.2	75	127				
m,p-Xylene	38.980	1.0	40.00	0	97.5	76	128				
Methylene chloride	19.270	2.0	20.00	0	96.4	63	137				
MTBE	19.220	1.0	20.00	0.3000	94.6	65	123				
n-Butylbenzene	19.330	1.0	20.00	0	96.7	69	137				
n-Propylbenzene	19.690	1.0	20.00	0	98.4	72	129				
Naphthalene	20.430	1.0	20.00	0	102	54	138				
o-Xylene	19.570	1.0	20.00	0	97.9	80	121				
sec-Butylbenzene	19.520	1.0	20.00	0	97.6	72	127				
Styrene	19.970	1.0	20.00	0	99.8	65	134				
Tert-amyl methyl ether	19.830	1.0	20.00	0	99.2	70	130				
Tert-Butanol	102.790	5.0	100.0	0	103	70	130				
tert-Butylbenzene	19.570	1.0	20.00	0	97.9	70	129				
Tetrachloroethene	18.260	1.0	20.00	0	91.3	66	128				
Toluene	19.870	2.0	20.00	0	99.4	77	122				
trans-1,2-Dichloroethene	19.720	1.0	20.00	0	98.6	63	137				
trans-1,3-Dichloropropene	19.650	1.0	20.00	0	98.2	59	135				
Trichloroethene	19.120	1.0	20.00	0	95.6	70	127				
Trichlorofluoromethane	20.250	1.0	20.00	0	101	57	129				
Vinyl chloride	19.820	1.0	20.00	0	99.1	50	134				
Xylenes, Total	58.550	2.0	60.00	0	97.6	75	125				
Surr: 1,2-Dichloroethane-d4	25.470		25.00		102	72	119				
Surr: 4-Bromofluorobenzene	25.300		25.00		101	76	119				
Surr: Dibromofluoromethane	25.170		25.00		101	85	115				
Surr: Toluene-d8	25.700		25.00		103	81	120				

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010510-001CMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89447**
Client ID: **ZZZZZZ** Batch ID: **P13VW104** TestNo: **EPA 8260B** Analysis Date: **7/4/2013** SeqNo: **1604684**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.480	1.0	20.00	0	102	81	129	19.99	2.42	20	
1,1,1-Trichloroethane	19.330	1.0	20.00	0	96.7	67	132	19.52	0.978	20	
1,1,2,2-Tetrachloroethane	20.640	1.0	20.00	0	103	63	128	20.99	1.68	20	
1,1,2-Trichloroethane	19.800	1.0	20.00	0	99.0	75	125	20.05	1.25	20	
1,1-Dichloroethane	19.750	0.50	20.00	0	98.8	69	133	20.07	1.61	20	
1,1-Dichloroethene	19.060	1.0	20.00	0	95.3	68	130	19.40	1.77	20	
1,1-Dichloropropene	19.330	1.0	20.00	0	96.7	73	132	19.87	2.76	20	
1,2,3-Trichlorobenzene	19.960	1.0	20.00	0	99.8	67	137	19.43	2.69	20	
1,2,3-Trichloropropane	19.860	1.0	20.00	0	99.3	73	124	20.32	2.29	20	
1,2,4-Trichlorobenzene	20.020	1.0	20.00	0	100	66	134	19.59	2.17	20	
1,2,4-Trimethylbenzene	19.590	1.0	20.00	0	98.0	74	132	19.63	0.204	20	
1,2-Dibromo-3-chloropropane	20.630	2.0	20.00	0	103	50	132	20.67	0.194	20	
1,2-Dibromoethane	19.680	1.0	20.00	0	98.4	80	121	19.76	0.406	20	
1,2-Dichlorobenzene	19.940	1.0	20.00	0	99.7	71	122	19.86	0.402	20	
1,2-Dichloroethane	19.480	0.50	20.00	0	97.4	69	132	20.16	3.43	20	
1,2-Dichloropropane	19.620	1.0	20.00	0	98.1	75	125	20.04	2.12	20	
1,3,5-Trimethylbenzene	19.590	1.0	20.00	0	98.0	74	131	19.68	0.458	20	
1,3-Dichlorobenzene	19.620	1.0	20.00	0	98.1	75	124	19.59	0.153	20	
1,3-Dichloropropane	20.130	1.0	20.00	0	101	73	126	20.30	0.841	20	
1,4-Dichlorobenzene	19.370	1.0	20.00	0	96.9	74	123	19.22	0.777	20	
2,2-Dichloropropane	14.750	1.0	20.00	0	73.8	69	137	14.98	1.55	20	
2-Butanone	126.840	10	200.0	0	63.4	49	136	130.7	3.01	20	
2-Chlorotoluene	19.640	1.0	20.00	0	98.2	73	126	19.74	0.508	20	
4-Chlorotoluene	19.600	1.0	20.00	0	98.0	74	128	19.68	0.407	20	
4-Isopropyltoluene	19.590	1.0	20.00	0	98.0	73	130	19.56	0.153	20	
4-Methyl-2-pentanone	202.700	10	200.0	0	101	58	134	209.3	3.20	20	
Acetone	93.470	10	200.0	0	46.7	40	135	95.24	1.88	20	
Acrolein	183.200	20	200.0	0	91.6	75	125	182.6	0.317	20	
Acrylonitrile	200.090	20	200.0	0	100	75	125	204.4	2.11	20	
Benzene	19.730	1.0	20.00	0	98.6	81	122	20.17	2.21	20	

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010510-001CMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89447**
Client ID: **ZZZZZZ** Batch ID: **P13VW104** TestNo: **EPA 8260B** Analysis Date: **7/4/2013** SeqNo: **1604684**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	20.000	1.0	20.00	0	100	76	124	19.97	0.150	20	
Bromochloromethane	19.710	1.0	20.00	0	98.6	65	129	19.95	1.21	20	
Bromodichloromethane	20.240	1.0	20.00	0	101	76	121	20.13	0.545	20	
Bromoform	20.470	1.0	20.00	0	102	69	128	19.71	3.78	20	
Bromomethane	17.980	1.0	20.00	0	89.9	53	141	16.22	10.3	20	
Carbon disulfide	19.250	1.0	20.00	0	96.2	75	125	20.02	3.92	20	
Carbon tetrachloride	19.830	1.0	20.00	0	99.2	66	138	19.90	0.352	20	
Chlorobenzene	19.850	1.0	20.00	0	99.2	81	122	19.69	0.809	20	
Chloroethane	20.830	1.0	20.00	0	104	58	133	21.49	3.12	20	
Chloroform	19.120	1.0	20.00	0	95.6	69	128	19.29	0.885	20	
Chloromethane	20.060	1.0	20.00	0	100	56	131	22.31	10.6	20	
cis-1,2-Dichloroethene	19.520	1.0	20.00	0	97.6	72	126	19.42	0.514	20	
cis-1,3-Dichloropropene	19.210	1.0	20.00	0	96.0	69	131	19.47	1.34	20	
Di-isopropyl ether	19.450	1.0	20.00	0	97.3	70	130	20.02	2.89	20	
Dibromochloromethane	20.490	1.0	20.00	0	102	66	133	19.87	3.07	20	
Dibromomethane	20.070	1.0	20.00	0	100	76	125	20.33	1.29	20	
Dichlorodifluoromethane	19.470	1.0	20.00	0	97.4	53	153	19.35	0.618	20	
Ethyl tert-butyl ether	19.520	1.0	20.00	0	97.6	70	130	20.08	2.83	20	
Ethylbenzene	19.540	1.0	20.00	0	97.7	73	127	19.37	0.874	20	
Freon-113	19.400	1.0	20.00	0	97.0	75	125	19.57	0.872	20	
Hexachlorobutadiene	19.160	1.0	20.00	0	95.8	67	131	18.39	4.10	20	
Isopropylbenzene	19.930	1.0	20.00	0	99.7	75	127	19.85	0.402	20	
m,p-Xylene	38.750	1.0	40.00	0	96.9	76	128	38.98	0.592	20	
Methylene chloride	19.260	2.0	20.00	0	96.3	63	137	19.27	0.0519	20	
MTBE	18.990	1.0	20.00	0.3000	93.5	65	123	19.22	1.20	20	
n-Butylbenzene	19.340	1.0	20.00	0	96.7	69	137	19.33	0.0517	20	
n-Propylbenzene	19.620	1.0	20.00	0	98.1	72	129	19.69	0.356	20	
Naphthalene	20.480	1.0	20.00	0	102	54	138	20.43	0.244	20	
o-Xylene	19.600	1.0	20.00	0	98.0	80	121	19.57	0.153	20	
sec-Butylbenzene	19.370	1.0	20.00	0	96.9	72	127	19.52	0.771	20	

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010510-001CMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89447**
Client ID: **ZZZZZZ** Batch ID: **P13VW104** TestNo: **EPA 8260B** Analysis Date: **7/4/2013** SeqNo: **1604684**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	19.890	1.0	20.00	0	99.4	65	134	19.97	0.401	20	
Tert-amyl methyl ether	19.320	1.0	20.00	0	96.6	70	130	19.83	2.61	20	
Tert-Butanol	99.340	5.0	100.0	0	99.3	70	130	102.8	3.41	20	
tert-Butylbenzene	19.420	1.0	20.00	0	97.1	70	129	19.57	0.769	20	
Tetrachloroethene	18.840	1.0	20.00	0	94.2	66	128	18.26	3.13	20	
Toluene	19.560	2.0	20.00	0	97.8	77	122	19.87	1.57	20	
trans-1,2-Dichloroethene	19.030	1.0	20.00	0	95.2	63	137	19.72	3.56	20	
trans-1,3-Dichloropropene	19.470	1.0	20.00	0	97.4	59	135	19.65	0.920	20	
Trichloroethene	19.050	1.0	20.00	0	95.2	70	127	19.12	0.367	20	
Trichlorofluoromethane	20.010	1.0	20.00	0	100	57	129	20.25	1.19	20	
Vinyl chloride	19.380	1.0	20.00	0	96.9	50	134	19.82	2.24	20	
Xylenes, Total	58.350	2.0	60.00	0	97.2	75	125	58.55	0.342	20	
Surr: 1,2-Dichloroethane-d4	24.990		25.00		100	72	119		0		
Surr: 4-Bromofluorobenzene	25.410		25.00		102	76	119		0		
Surr: Dibromofluoromethane	25.300		25.00		101	85	115		0		
Surr: Toluene-d8	25.260		25.00		101	81	120		0		

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130705LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **LCSW** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604716**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.340	1.0	20.00	0	102	81	129				
1,1,1-Trichloroethane	19.430	1.0	20.00	0	97.2	67	132				
1,1,2,2-Tetrachloroethane	20.570	1.0	20.00	0	103	63	128				
1,1,2-Trichloroethane	19.560	1.0	20.00	0	97.8	75	125				
1,1-Dichloroethane	19.740	0.50	20.00	0	98.7	69	133				
1,1-Dichloroethene	19.840	1.0	20.00	0	99.2	68	130				
1,1-Dichloropropene	19.440	1.0	20.00	0	97.2	73	132				
1,2,3-Trichlorobenzene	20.400	1.0	20.00	0	102	67	137				
1,2,3-Trichloropropane	19.950	1.0	20.00	0	99.8	73	124				
1,2,4-Trichlorobenzene	20.870	1.0	20.00	0	104	66	134				
1,2,4-Trimethylbenzene	20.180	1.0	20.00	0	101	74	132				
1,2-Dibromo-3-chloropropane	21.740	2.0	20.00	0	109	50	132				
1,2-Dibromoethane	19.670	1.0	20.00	0	98.4	80	121				
1,2-Dichlorobenzene	20.170	1.0	20.00	0	101	71	122				
1,2-Dichloroethane	19.290	0.50	20.00	0	96.5	69	132				
1,2-Dichloropropane	19.440	1.0	20.00	0	97.2	75	125				
1,3,5-Trimethylbenzene	20.160	1.0	20.00	0	101	74	131				
1,3-Dichlorobenzene	20.270	1.0	20.00	0	101	75	124				
1,3-Dichloropropane	20.080	1.0	20.00	0	100	73	126				
1,4-Dichlorobenzene	20.020	1.0	20.00	0	100	74	123				
2,2-Dichloropropane	21.410	1.0	20.00	0	107	69	137				
2-Butanone	213.170	10	200.0	0	107	49	136				
2-Chlorotoluene	19.900	1.0	20.00	0	99.5	73	126				
4-Chlorotoluene	20.100	1.0	20.00	0	101	74	128				
4-Isopropyltoluene	20.340	1.0	20.00	0	102	73	130				
4-Methyl-2-pentanone	203.420	10	200.0	0	102	58	134				
Acetone	214.400	10	200.0	0	107	40	135				
Acrolein	205.510	20	200.0	0	103	75	125				
Acrylonitrile	197.580	20	200.0	0	98.8	75	125				
Benzene	19.550	1.0	20.00	0	97.8	81	122				

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130705LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **LCSW** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604716**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	20.220	1.0	20.00	0	101	76	124				
Bromochloromethane	19.950	1.0	20.00	0	99.8	65	129				
Bromodichloromethane	20.460	1.0	20.00	0	102	76	121				
Bromoform	21.560	1.0	20.00	0	108	69	128				
Bromomethane	19.010	1.0	20.00	0	95.1	53	141				
Carbon disulfide	19.920	1.0	20.00	0	99.6	75	125				
Carbon tetrachloride	20.570	1.0	20.00	0	103	66	138				
Chlorobenzene	19.710	1.0	20.00	0	98.6	81	122				
Chloroethane	20.960	1.0	20.00	0	105	58	133				
Chloroform	19.040	1.0	20.00	0	95.2	69	128				
Chloromethane	20.310	1.0	20.00	0	102	56	131				
cis-1,2-Dichloroethene	19.420	1.0	20.00	0	97.1	72	126				
cis-1,3-Dichloropropene	20.520	1.0	20.00	0	103	69	131				
Di-isopropyl ether	19.200	1.0	20.00	0	96.0	70	130				
Dibromochloromethane	21.340	1.0	20.00	0	107	66	133				
Dibromomethane	20.310	1.0	20.00	0	102	76	125				
Dichlorodifluoromethane	20.580	1.0	20.00	0	103	53	153				
Ethyl tert-butyl ether	19.360	1.0	20.00	0	96.8	70	130				
Ethylbenzene	19.510	1.0	20.00	0	97.6	73	127				
Freon-113	20.440	1.0	20.00	0	102	75	125				
Hexachlorobutadiene	20.260	1.0	20.00	0	101	67	131				
Isopropylbenzene	20.190	1.0	20.00	0	101	75	127				
m,p-Xylene	39.310	1.0	40.00	0	98.3	76	128				
Methylene chloride	19.530	2.0	20.00	0	97.6	63	137				
MTBE	18.590	1.0	20.00	0	93.0	65	123				
n-Butylbenzene	20.520	1.0	20.00	0	103	69	137				
n-Propylbenzene	20.300	1.0	20.00	0	102	72	129				
Naphthalene	20.470	1.0	20.00	0	102	54	138				
o-Xylene	19.620	1.0	20.00	0	98.1	80	121				
sec-Butylbenzene	20.090	1.0	20.00	0	100	72	127				

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130705LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **LCSW** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604716**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	19.960	1.0	20.00	0	99.8	65	134				
Tert-amyl methyl ether	19.270	1.0	20.00	0	96.4	70	130				
Tert-Butanol	96.580	5.0	100.0	0	96.6	70	130				
tert-Butylbenzene	19.990	1.0	20.00	0	100	70	129				
Tetrachloroethene	19.150	1.0	20.00	0	95.8	66	128				
Toluene	19.510	2.0	20.00	0	97.6	77	122				
trans-1,2-Dichloroethene	19.030	1.0	20.00	0	95.2	63	137				
trans-1,3-Dichloropropene	20.470	1.0	20.00	0	102	59	135				
Trichloroethene	19.420	1.0	20.00	0	97.1	70	127				
Trichlorofluoromethane	20.290	1.0	20.00	0	101	57	129				
Vinyl chloride	19.580	1.0	20.00	0	97.9	50	134				
Xylenes, Total	58.930	2.0	60.00	0	98.2	75	125				
Surr: 1,2-Dichloroethane-d4	24.930		25.00		99.7	72	119				
Surr: 4-Bromofluorobenzene	25.870		25.00		103	76	119				
Surr: Dibromofluoromethane	25.460		25.00		102	85	115				
Surr: Toluene-d8	25.600		25.00		102	81	120				

Sample ID: **P130705MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **PBW** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130705MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **PBW** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Acrolein	ND	20									
Acrylonitrile	ND	20									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									

Qualifiers:

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

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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130705MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **PBW** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	2.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P130705MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **PBW** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	25.070		25.00		100	72	119				
Surr: 4-Bromofluorobenzene	25.230		25.00		101	76	119				
Surr: Dibromofluoromethane	25.240		25.00		101	85	115				
Surr: Toluene-d8	25.000		25.00		100	81	120				

Sample ID: **N010479-022ADUP** SampType: **DUP** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **ZZZZZZ** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604719**

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						0	0	20	
1,1,1-Trichloroethane	ND	1.0						0	0	20	
1,1,2,2-Tetrachloroethane	ND	1.0						0	0	20	
1,1,2-Trichloroethane	ND	1.0						0	0	20	
1,1-Dichloroethane	ND	0.50						0	0	20	
1,1-Dichloroethene	ND	1.0						0	0	20	
1,1-Dichloropropene	ND	1.0						0	0	20	
1,2,3-Trichlorobenzene	ND	1.0						0	0	20	
1,2,3-Trichloropropane	ND	1.0						0	0	20	
1,2,4-Trichlorobenzene	ND	1.0						0	0	20	
1,2,4-Trimethylbenzene	ND	1.0						0	0	20	
1,2-Dibromo-3-chloropropane	ND	2.0						0	0	20	
1,2-Dibromoethane	ND	1.0						0	0	20	
1,2-Dichlorobenzene	ND	1.0						0	0	20	
1,2-Dichloroethane	ND	0.50						0	0	20	
1,2-Dichloropropane	ND	1.0						0	0	20	
1,3,5-Trimethylbenzene	ND	1.0						0	0	20	
1,3-Dichlorobenzene	ND	1.0						0	0	20	

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010479-022ADUP** SampType: **DUP** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **ZZZZZZ** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604719**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	ND	1.0						0	0	20	
1,4-Dichlorobenzene	ND	1.0						0	0	20	
2,2-Dichloropropane	ND	1.0						0	0	20	
2-Butanone	ND	10						0	0	20	
2-Chlorotoluene	ND	1.0						0	0	20	
4-Chlorotoluene	ND	1.0						0	0	20	
4-Isopropyltoluene	ND	1.0						0	0	20	
4-Methyl-2-pentanone	ND	10						0	0	20	
Acetone	1.530	10						1.860	0	20	J
Acrolein	ND	20						0	0	20	
Acrylonitrile	ND	20						0	0	20	
Benzene	ND	1.0						0	0	20	
Bromobenzene	ND	1.0						0	0	20	
Bromochloromethane	ND	1.0						0	0	20	
Bromodichloromethane	ND	1.0						0	0	20	
Bromoform	ND	1.0						0	0	20	
Bromomethane	ND	1.0						0	0	20	
Carbon disulfide	ND	1.0						0	0	20	
Carbon tetrachloride	ND	1.0						0	0	20	
Chlorobenzene	ND	1.0						0	0	20	
Chloroethane	ND	1.0						0	0	20	
Chloroform	ND	1.0						0	0	20	
Chloromethane	ND	1.0						0	0	20	
cis-1,2-Dichloroethene	ND	1.0						0	0	20	
cis-1,3-Dichloropropene	ND	1.0						0	0	20	
Di-isopropyl ether	ND	1.0						0	0	20	
Dibromochloromethane	ND	1.0						0	0	20	
Dibromomethane	ND	1.0						0	0	20	
Dichlorodifluoromethane	ND	1.0						0	0	20	
Ethyl tert-butyl ether	ND	1.0						0	0	20	

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010479-022ADUP** SampType: **DUP** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **ZZZZZZ** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604719**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0						0	0	20	
Freon-113	ND	1.0						0	0	20	
Hexachlorobutadiene	ND	1.0						0	0	20	
Isopropylbenzene	ND	1.0						0	0	20	
m,p-Xylene	ND	1.0						0	0	20	
Methylene chloride	ND	2.0						0	0	20	
MTBE	ND	1.0						0	0	20	
n-Butylbenzene	ND	1.0						0	0	20	
n-Propylbenzene	ND	1.0						0	0	20	
Naphthalene	ND	1.0						0	0	20	
o-Xylene	ND	1.0						0	0	20	
sec-Butylbenzene	ND	1.0						0	0	20	
Styrene	ND	1.0						0	0	20	
Tert-amyl methyl ether	ND	1.0						0	0	20	
Tert-Butanol	3.760	5.0						2.340	0	20	J
tert-Butylbenzene	ND	1.0						0	0	20	
Tetrachloroethene	ND	1.0						0	0	20	
Toluene	ND	2.0						0	0	20	
trans-1,2-Dichloroethene	ND	1.0						0	0	20	
trans-1,3-Dichloropropene	ND	1.0						0	0	20	
Trichloroethene	ND	1.0						0	0	20	
Trichlorofluoromethane	ND	1.0						0	0	20	
Vinyl chloride	ND	1.0						0	0	20	
Xylenes, Total	ND	2.0						0	0	20	
Surr: 1,2-Dichloroethane-d4	25.270		25.00		101	72	119		0		
Surr: 4-Bromofluorobenzene	25.410		25.00		102	76	119		0		
Surr: Dibromofluoromethane	25.220		25.00		101	85	115		0		
Surr: Toluene-d8	25.080		25.00		100	81	120		0		

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010483-001AMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **ZZZZZZ** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604723**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.460	1.0	20.00	0	102	81	129				
1,1,1-Trichloroethane	19.890	1.0	20.00	0	99.4	67	132				
1,1,2,2-Tetrachloroethane	21.470	1.0	20.00	0	107	63	128				
1,1,2-Trichloroethane	20.250	1.0	20.00	0	101	75	125				
1,1-Dichloroethane	19.940	0.50	20.00	0	99.7	69	133				
1,1-Dichloroethene	20.510	1.0	20.00	0	103	68	130				
1,1-Dichloropropene	19.850	1.0	20.00	0	99.2	73	132				
1,2,3-Trichlorobenzene	19.980	1.0	20.00	0	99.9	67	137				
1,2,3-Trichloropropane	20.760	1.0	20.00	0	104	73	124				
1,2,4-Trichlorobenzene	20.170	1.0	20.00	0	101	66	134				
1,2,4-Trimethylbenzene	20.020	1.0	20.00	0	100	74	132				
1,2-Dibromo-3-chloropropane	21.550	2.0	20.00	0	108	50	132				
1,2-Dibromoethane	20.210	1.0	20.00	0	101	80	121				
1,2-Dichlorobenzene	20.390	1.0	20.00	0	102	71	122				
1,2-Dichloroethane	20.240	0.50	20.00	0	101	69	132				
1,2-Dichloropropane	20.200	1.0	20.00	0	101	75	125				
1,3,5-Trimethylbenzene	19.990	1.0	20.00	0	100	74	131				
1,3-Dichlorobenzene	20.070	1.0	20.00	0	100	75	124				
1,3-Dichloropropane	20.480	1.0	20.00	0	102	73	126				
1,4-Dichlorobenzene	19.860	1.0	20.00	0	99.3	74	123				
2,2-Dichloropropane	22.420	1.0	20.00	0	112	69	137				
2-Butanone	130.580	10	200.0	0	65.3	49	136				
2-Chlorotoluene	20.250	1.0	20.00	0	101	73	126				
4-Chlorotoluene	19.970	1.0	20.00	0	99.8	74	128				
4-Isopropyltoluene	20.010	1.0	20.00	0	100	73	130				
4-Methyl-2-pentanone	210.570	10	200.0	0	105	58	134				
Acetone	94.420	10	200.0	0	47.2	40	135				
Acrolein	209.190	20	200.0	0	105	75	125				
Acrylonitrile	205.220	20	200.0	0	103	75	125				
Benzene	19.960	1.0	20.00	0	99.8	81	122				

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010483-001AMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **ZZZZZZ** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604723**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	20.240	1.0	20.00	0	101	76	124				
Bromochloromethane	20.340	1.0	20.00	0	102	65	129				
Bromodichloromethane	20.490	1.0	20.00	0	102	76	121				
Bromoform	20.770	1.0	20.00	0	104	69	128				
Bromomethane	17.810	1.0	20.00	0	89.0	53	141				
Carbon disulfide	20.540	1.0	20.00	0	103	75	125				
Carbon tetrachloride	20.360	1.0	20.00	0	102	66	138				
Chlorobenzene	20.120	1.0	20.00	0	101	81	122				
Chloroethane	21.720	1.0	20.00	0	109	58	133				
Chloroform	19.970	1.0	20.00	0	99.8	69	128				
Chloromethane	22.110	1.0	20.00	0	111	56	131				
cis-1,2-Dichloroethene	19.750	1.0	20.00	0	98.8	72	126				
cis-1,3-Dichloropropene	20.590	1.0	20.00	0	103	69	131				
Di-isopropyl ether	19.970	1.0	20.00	0	99.8	70	130				
Dibromochloromethane	20.740	1.0	20.00	0	104	66	133				
Dibromomethane	20.340	1.0	20.00	0	102	76	125				
Dichlorodifluoromethane	20.480	1.0	20.00	0	102	53	153				
Ethyl tert-butyl ether	20.000	1.0	20.00	0	100	70	130				
Ethylbenzene	19.780	1.0	20.00	0	98.9	73	127				
Freon-113	21.460	1.0	20.00	0	107	75	125				
Hexachlorobutadiene	19.770	1.0	20.00	0	98.8	67	131				
Isopropylbenzene	20.380	1.0	20.00	0	102	75	127				
m,p-Xylene	39.910	1.0	40.00	0	99.8	76	128				
Methylene chloride	19.310	2.0	20.00	0	96.6	63	137				
MTBE	19.040	1.0	20.00	0	95.2	65	123				
n-Butylbenzene	20.350	1.0	20.00	0	102	69	137				
n-Propylbenzene	20.290	1.0	20.00	0	101	72	129				
Naphthalene	20.870	1.0	20.00	0	104	54	138				
o-Xylene	19.820	1.0	20.00	0	99.1	80	121				
sec-Butylbenzene	19.930	1.0	20.00	0	99.7	72	127				

Qualifiers:

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

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

CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010483-001AMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **ZZZZZZ** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604723**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	20.200	1.0	20.00	0	101	65	134				
Tert-amyl methyl ether	19.910	1.0	20.00	0	99.6	70	130				
Tert-Butanol	104.430	5.0	100.0	0	104	70	130				
tert-Butylbenzene	19.730	1.0	20.00	0	98.6	70	129				
Tetrachloroethene	21.080	1.0	20.00	1.860	96.1	66	128				
Toluene	20.000	2.0	20.00	0	100	77	122				
trans-1,2-Dichloroethene	19.780	1.0	20.00	0	98.9	63	137				
trans-1,3-Dichloropropene	20.750	1.0	20.00	0	104	59	135				
Trichloroethene	19.620	1.0	20.00	0	98.1	70	127				
Trichlorofluoromethane	21.250	1.0	20.00	0	106	57	129				
Vinyl chloride	19.960	1.0	20.00	0	99.8	50	134				
Xylenes, Total	59.730	2.0	60.00	0	99.6	75	125				
Surr: 1,2-Dichloroethane-d4	26.000		25.00		104	72	119				
Surr: 4-Bromofluorobenzene	25.920		25.00		104	76	119				
Surr: Dibromofluoromethane	25.710		25.00		103	85	115				
Surr: Toluene-d8	25.790		25.00		103	81	120				

Sample ID: **N010483-001AMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **ZZZZZZ** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604724**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.960	1.0	20.00	0	99.8	81	129	20.46	2.47	20	
1,1,1-Trichloroethane	19.210	1.0	20.00	0	96.0	67	132	19.89	3.48	20	
1,1,2,2-Tetrachloroethane	21.190	1.0	20.00	0	106	63	128	21.47	1.31	20	
1,1,2-Trichloroethane	19.600	1.0	20.00	0	98.0	75	125	20.25	3.26	20	
1,1-Dichloroethane	19.610	0.50	20.00	0	98.0	69	133	19.94	1.67	20	
1,1-Dichloroethene	19.460	1.0	20.00	0	97.3	68	130	20.51	5.25	20	
1,1-Dichloropropene	19.020	1.0	20.00	0	95.1	73	132	19.85	4.27	20	
1,2,3-Trichlorobenzene	19.910	1.0	20.00	0	99.6	67	137	19.98	0.351	20	
1,2,3-Trichloropropane	20.240	1.0	20.00	0	101	73	124	20.76	2.54	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

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

CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010483-001AMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **ZZZZZZ** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604724**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	20.310	1.0	20.00	0	102	66	134	20.17	0.692	20	
1,2,4-Trimethylbenzene	19.500	1.0	20.00	0	97.5	74	132	20.02	2.63	20	
1,2-Dibromo-3-chloropropane	21.520	2.0	20.00	0	108	50	132	21.55	0.139	20	
1,2-Dibromoethane	19.730	1.0	20.00	0	98.6	80	121	20.21	2.40	20	
1,2-Dichlorobenzene	19.990	1.0	20.00	0	100	71	122	20.39	1.98	20	
1,2-Dichloroethane	19.390	0.50	20.00	0	97.0	69	132	20.24	4.29	20	
1,2-Dichloropropane	19.530	1.0	20.00	0	97.6	75	125	20.20	3.37	20	
1,3,5-Trimethylbenzene	19.530	1.0	20.00	0	97.6	74	131	19.99	2.33	20	
1,3-Dichlorobenzene	19.730	1.0	20.00	0	98.6	75	124	20.07	1.71	20	
1,3-Dichloropropane	19.900	1.0	20.00	0	99.5	73	126	20.48	2.87	20	
1,4-Dichlorobenzene	19.460	1.0	20.00	0	97.3	74	123	19.86	2.03	20	
2,2-Dichloropropane	21.470	1.0	20.00	0	107	69	137	22.42	4.33	20	
2-Butanone	128.380	10	200.0	0	64.2	49	136	130.6	1.70	20	
2-Chlorotoluene	19.640	1.0	20.00	0	98.2	73	126	20.25	3.06	20	
4-Chlorotoluene	19.450	1.0	20.00	0	97.3	74	128	19.97	2.64	20	
4-Isopropyltoluene	19.860	1.0	20.00	0	99.3	73	130	20.01	0.752	20	
4-Methyl-2-pentanone	206.990	10	200.0	0	103	58	134	210.6	1.71	20	
Acetone	93.540	10	200.0	0	46.8	40	135	94.42	0.936	20	
Acrolein	206.020	20	200.0	0	103	75	125	209.2	1.53	20	
Acrylonitrile	203.820	20	200.0	0	102	75	125	205.2	0.685	20	
Benzene	19.430	1.0	20.00	0	97.2	81	122	19.96	2.69	20	
Bromobenzene	19.830	1.0	20.00	0	99.2	76	124	20.24	2.05	20	
Bromochloromethane	19.750	1.0	20.00	0	98.8	65	129	20.34	2.94	20	
Bromodichloromethane	19.900	1.0	20.00	0	99.5	76	121	20.49	2.92	20	
Bromoform	20.940	1.0	20.00	0	105	69	128	20.77	0.815	20	
Bromomethane	19.120	1.0	20.00	0	95.6	53	141	17.81	7.09	20	
Carbon disulfide	20.020	1.0	20.00	0	100	75	125	20.54	2.56	20	
Carbon tetrachloride	19.930	1.0	20.00	0	99.7	66	138	20.36	2.13	20	
Chlorobenzene	19.460	1.0	20.00	0	97.3	81	122	20.12	3.34	20	
Chloroethane	21.050	1.0	20.00	0	105	58	133	21.72	3.13	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
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- ND Not Detected at the Reporting Limit
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- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
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Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010483-001AMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **ZZZZZZ** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604724**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	19.330	1.0	20.00	0	96.7	69	128	19.97	3.26	20	
Chloromethane	21.330	1.0	20.00	0	107	56	131	22.11	3.59	20	
cis-1,2-Dichloroethene	19.320	1.0	20.00	0	96.6	72	126	19.75	2.20	20	
cis-1,3-Dichloropropene	20.100	1.0	20.00	0	101	69	131	20.59	2.41	20	
Di-isopropyl ether	19.290	1.0	20.00	0	96.5	70	130	19.97	3.46	20	
Dibromochloromethane	20.550	1.0	20.00	0	103	66	133	20.74	0.920	20	
Dibromomethane	20.310	1.0	20.00	0	102	76	125	20.34	0.148	20	
Dichlorodifluoromethane	19.600	1.0	20.00	0	98.0	53	153	20.48	4.39	20	
Ethyl tert-butyl ether	19.680	1.0	20.00	0	98.4	70	130	20.00	1.61	20	
Ethylbenzene	19.190	1.0	20.00	0	96.0	73	127	19.78	3.03	20	
Freon-113	20.840	1.0	20.00	0	104	75	125	21.46	2.93	20	
Hexachlorobutadiene	19.900	1.0	20.00	0	99.5	67	131	19.77	0.655	20	
Isopropylbenzene	19.860	1.0	20.00	0	99.3	75	127	20.38	2.58	20	
m,p-Xylene	38.420	1.0	40.00	0	96.0	76	128	39.91	3.80	20	
Methylene chloride	18.850	2.0	20.00	0	94.3	63	137	19.31	2.41	20	
MTBE	18.650	1.0	20.00	0	93.3	65	123	19.04	2.07	20	
n-Butylbenzene	20.050	1.0	20.00	0	100	69	137	20.35	1.49	20	
n-Propylbenzene	19.820	1.0	20.00	0	99.1	72	129	20.29	2.34	20	
Naphthalene	20.930	1.0	20.00	0	105	54	138	20.87	0.287	20	
o-Xylene	19.120	1.0	20.00	0	95.6	80	121	19.82	3.60	20	
sec-Butylbenzene	19.640	1.0	20.00	0	98.2	72	127	19.93	1.47	20	
Styrene	19.680	1.0	20.00	0	98.4	65	134	20.20	2.61	20	
Tert-amyl methyl ether	19.390	1.0	20.00	0	97.0	70	130	19.91	2.65	20	
Tert-Butanol	106.350	5.0	100.0	0	106	70	130	104.4	1.82	20	
tert-Butylbenzene	19.610	1.0	20.00	0	98.0	70	129	19.73	0.610	20	
Tetrachloroethene	20.460	1.0	20.00	1.860	93.0	66	128	21.08	2.99	20	
Toluene	19.400	2.0	20.00	0	97.0	77	122	20.00	3.05	20	
trans-1,2-Dichloroethene	19.060	1.0	20.00	0	95.3	63	137	19.78	3.71	20	
trans-1,3-Dichloropropene	20.100	1.0	20.00	0	101	59	135	20.75	3.18	20	
Trichloroethene	19.140	1.0	20.00	0	95.7	70	127	19.62	2.48	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
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CLIENT: CH2M HILL
Work Order: N010486
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N010483-001AMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **ug/L** Prep Date: RunNo: **89470**
Client ID: **ZZZZZZ** Batch ID: **P13VW105** TestNo: **EPA 8260B** Analysis Date: **7/5/2013** SeqNo: **1604724**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	20.380	1.0	20.00	0	102	57	129	21.25	4.18	20	
Vinyl chloride	19.150	1.0	20.00	0	95.8	50	134	19.96	4.14	20	
Xylenes, Total	57.540	2.0	60.00	0	95.9	75	125	59.73	3.73	20	
Surr: 1,2-Dichloroethane-d4	24.760		25.00		99.0	72	119		0		
Surr: 4-Bromofluorobenzene	24.890		25.00		99.6	76	119		0		
Surr: Dibromofluoromethane	25.090		25.00		100	85	115		0		
Surr: Toluene-d8	25.250		25.00		101	81	120		0		

Qualifiers:

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

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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: 6-28-13

PAGE: 1 OF 1

LABORATORY CLIENT: **Kinder Morgan Energy Partners, Attn: Steve Defibaugh**

ADDRESS: **1100 Town & Country Road**

CITY: **Orange, CA 92868**

TEL: **714-560-4802** FAX: **714-560-4601** E-MAIL: **james_dye@kindermorgan.com**

CLIENT PROJECT NAME / NUMBER: **SFPP - Norwalk Site**

PROJECT CONTACT: **James Dye**

SAMPLER(S): (SIGNATURE)

P.O. NO.:

QUOTE NO.:

LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____ / ____ / ____

SPECIAL INSTRUCTIONS

Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TPH - g (8015M)	~~TPH - d (8015M)~~	VOCs, Full List (8260B)	TPH D (8015M)	TPH o,c (8015M)	Comments
	INF-06-28	Influent	6/28/13	1510	WW	8/7	X	X	X	X	X	Temperature* = _____
												(Temp. as sampled)*
												Monthly

ND10486-1

Relinquished by: (Signature)	Received by: (Signature) Edward Rodriguez	Date: 6-28-13	Time: 16:30
Relinquished by: (Signature) Edward Rodriguez 6-28-13 16:55	Received by: (Signature)	Date: 6/28/13	Time: 1655
Relinquished by: (Signature)	Received by: (Signature) MISCHETTIN	Date: 6/29/13	Time: 1139

5.9°C ICE IR#1

Revised: 04/27/2011

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:	6/29/2013	Workorder:	N010486
Rep sample Temp (Deg C):	5.4	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	FedEx		
Last 4 digits of Tracking No.:	3245	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments:

Checklist Completed B for: MBC MSG 7/1/13

Reviewed By:

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

signal hill, CA 90755

Origin ID: LGBA

FedEx Express

J13111302120326

Ship Date: 28JUN13
ActWgt: 8.0 LB
CAD: 4346475/INET3370

Dims: 12 X 8 X 12 IN

Delivery Address Bar Code

Ref # CH2M HILLS
Invoice #
PO #
Dept #

SHIP TO: (702) 307-2659

BILL RECIPIENT

Marlon
ATL
3151 W POST RD

LAS VEGAS, NV 89118

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 7961 2609 3245
0201

W0 LASA

89118
NV-US
LAS

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 $1,000, 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.

July 08, 2013

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

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

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

Workorder No.: N010487

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on June 29, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

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

Sincerely,

Jose Tenorio Jr.
Laboratory Director

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

Advanced Technology Laboratories, Inc.

Date: *08-Jul-13*

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N010487
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N010487-001A	VINF-06-28	Air	6/28/2013 3:15:00 PM	6/29/2013	7/8/2013
N010487-001B	VINF-06-28	Air	6/28/2013 3:15:00 PM	6/29/2013	7/8/2013

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N010487

CASE NARRATIVE

Subcontracted Analyses:

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

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

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: 6-28-13

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**	FAX: **714-560-4601**	E-MAIL: james_dye@kindermorgan.com	

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS

Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve 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	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TO-15	TO-3 (TPH-g)	ASTM-1946 (O2/Argon, CO2, CH4)	Comments
	VINF- 6-28	Influent Vapor (from header)	6/28/13	1515	Air	4	X	X	X	Monthly sample N010487-1

Relinquished by: (Signature)	Received by: (Signature) Edward Rodriguez	Date: 6-28-13	Time: 16:30
Relinquished by: (Signature) Edward Rodriguez 6-28-13 16:55	Received by: (Signature)	Date: 6/28/13	Time: 16 55
Relinquished by: (Signature)	Received by: (Signature)	Date: 6/29/13	Time: 1129

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: James Dye

01-Jul-13

				Requested Tests		
Sample ID	**Matrix**	**Date Collected**	**Bottle Type**	**EPA TO15**	**EPA TO3**	
N010487-001A / VINF-06-28	Air	6/28/2013 3:15:00 PM	BAG	1	1	

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#:N010487 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by: Normal TAT

		Date/Time			Date/Time
Relinquished by:	MARTIN	07/01/13 0900	**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: James Dye

01-Jul-13

				Requested Tests		
Sample ID	**Matrix**	**Date Collected**	**Bottle Type**	**ASTM D1946**		
N010487-001B / VINF-06-28	Air	6/28/2013 3:15:00 PM	BAG	1		

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N010487 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by: Normal TAT
Please analyze for O2,Ar,CO2,CH4 by ASTM 1946.

		Date/Time			Date/Time
Relinquished by:	[illegible]	07/01/13 @ 0900	**Received by:**		
Relinquished by:			**Received by:**		

Air TECHNOLOGY Laboratories, Inc.

July 8, 2013

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

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

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

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

LABORATORY TEST RESULTS

Project Reference: N010487
Lab Number: E070101-01

Enclosed are results for sample(s) received 7/01/13 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

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

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

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

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

E070101-01

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: James Dye

01-Jul-13

					Requested Tests		
	Sample ID	Matrix	Date Collected	Bottle Type	ASTM D1946		
01	N010487-001B / VINF-06-28	Air	6/28/2013 3:15:00 PM	BAG	1		

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N010487 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by: Normal TAT
Please analyze for O2,Ar,CO2,CH4 by ASTM 1946.

		Date/Time			Date/Time
Relinquished by:	[signature]	07/01/13 0900	**Received by:**	[signature] (via email)	7/1/13 0930
Relinquished by:			**Received by:**		

Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: NA
Project No.: N010487
Date Received: 07/01/13
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	E070101-01
Client Sample I.D.:	N010487-001B / VINF-06-28
Date Sampled:	06/28/13
Date Analyzed:	07/01/13
QC Batch No.:	130701GC8A1
Analyst Initials:	MJ
Dilution Factor:	1.0

ANALYTE	Result % v/v	RL % v/v
Carbon Dioxide	ND	0.010
Oxygen/Argon	21	0.50
Methane	0.0068	0.0010

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

Reviewed/Approved By: _____ Date 7-8-13
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 130701GC8A1
Matrix: Air
Units: % v/v

QC for ASTM D1946

Lab No.:	Method Blank		LCS		LCSD			
Date Analyzed:	07/01/13		07/01/13		07/01/13			
Analyst Initials:	MJ		MJ		MJ			
Datafile:	01jul011		01jul008		01jul009			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	**Results**	**RL**	**% Rec.**	**Criteria**	**% Rec.**	**Criteria**	**%RPD**	**Criteria**
Carbon Dioxide	ND	0.010	99	70-130%	96	70-130%	2.4	<30
Oxygen/Argon	ND	0.50	98	70-130%	99	70-130%	1.0	<30
Methane	ND	0.0010	101	70-130%	99	70-130%	1.3	<30

ND = Not Detected (Below RL)

Reviewed/Approved By: _____ **Date:** 7-8-13

Mark J. Johnson
Operations Manager

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

ADVANCED TECHNOLOGY LABORATORIES

July 08, 2013

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No.: T104704502

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 : 1301931

Client Reference : [none]

Enclosed are the results for sample(s) received on July 01, 2013 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

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 07/08/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N010487-001A / VINF-06-28	1301931-01	Air	6/28/13 15:15	7/01/13 9:02

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 07/08/2013

Client Sample ID N010487-001A / VINF-06-28

Lab ID: 1301931-01

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	B3F0608	06/29/2013	06/29/13 01:20	
1,1,1-Trichloroethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,1,2,2-Tetrachloroethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,1,2-Trichloroethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,1-Dichloroethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,1-Dichloroethene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,1-Dichloropropene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,2,3-Trichloropropane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,2,4-Trichlorobenzene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,2,4-Trimethylbenzene	**30**	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,2-Dibromo-3-chloropropane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,2-Dibromoethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,2-Dichlorobenzene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,2-Dichloroethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,2-Dichloropropane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,3,5-Trimethylbenzene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,3-Butadiene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,3-Dichlorobenzene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,4-Dichlorobenzene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
1,4-Dioxane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
2,2,4-Trimethylpentane	**290**	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
2-Butanone	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
2-Chloroethyl vinyl ether	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
2-Chlorotoluene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
2-Hexanone	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
2-Propanol	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
4-Chlorotoluene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
4-Ethyl Toluene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
4-Methyl-2-pentanone	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Acetone	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Acetonitrile	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Acrolein	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Acrylonitrile	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Benzene	**190**	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Benzyl chloride	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Bromobenzene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Bromodichloromethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 07/08/2013

Client Sample ID N010487-001A / VINF-06-28

Lab ID: 1301931-01

Volatile Organic Compounds in AIR by TO-15 **Analyst: BB**

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromoform	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Bromomethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Carbon disulfide	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Carbon tetrachloride	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Chlorobenzene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Chloroethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Chloroform	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Chloromethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
cis-1,2-Dichloroethene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
cis-1,3-Dichloropropene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Cyclohexane	**140**	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Dibromochloromethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Dibromomethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Dichlorodifluoromethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Dichlorotetrafluoroethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Ethanol	**47**	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Ethylbenzene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Freon-113	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Hexachlorobutadiene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Isopropylbenzene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
m,p-Xylene	**94**	50	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Methylene chloride	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
MTBE	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
n-Butylbenzene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
n-Propylbenzene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Naphthalene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
o-Xylene	**37**	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
p-Isopropyltoluene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
sec-Butylbenzene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Styrene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
tert-Butylbenzene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Tetrachloroethene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Toluene	**130**	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
trans-1,2-Dichloroethene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
trans-1,3-Dichloropropene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Trichloroethene	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Trichlorofluoromethane	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 07/08/2013

Client Sample ID N010487-001A / VINF-06-28

Lab ID: 1301931-01

Volatile Organic Compounds in AIR by TO-15

Analyst: BB

Analyte	Result (ppbv)	PQL (ppbv)	MDL (ppbv)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Vinyl acetate	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Vinyl chloride	ND	25	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Surrogate: 4-Bromofluorobenzene	*108 %*	*70 - 130*			B3F0608	06/29/2013	*06/29/13 01:20*	

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	**22000**	2500	NA	100	B3F0608	06/29/2013	06/29/13 01:20	
Surrogate: 4-Bromofluorobenzene	*97.6 %*	*70 - 130*			B3F0608	06/29/2013	*06/29/13 01:20*	

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 07/08/2013

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 B3F0608 - No_Prep_Air									
Blank (B3F0608-BLK1)				Prepared: 6/28/2013 Analyzed: 6/28/2013					
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				

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
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Las Vegas , NV 89118	Reported : 07/08/2013

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 B3F0608 - No_Prep_Air (continued)									
Blank (B3F0608-BLK1) - Continued				Prepared: 6/28/2013 Analyzed: 6/28/2013					
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	0.50			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	*2.650*		*2.50000*		*106*	*70 - 130*			
LCS (B3F0608-BS1)				Prepared: 6/28/2013 Analyzed: 6/28/2013					
1,1-Dichloroethane	2.22000	0.25	2.00000		111	70 - 130			

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
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Las Vegas , NV 89118	Reported : 07/08/2013

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 B3F0608 - No_Prep_Air (continued)									
LCS (B3F0608-BS1) - Continued				Prepared: 6/28/2013 Analyzed: 6/28/2013					
Benzene	2.10000	0.25	2.00000		105	70 - 130			
Chloroform	2.25000	0.25	2.00000		112	70 - 130			
o-Xylene	2.38000	0.25	2.00000		119	70 - 130			
Tetrachloroethene	2.37000	0.25	2.00000		118	70 - 130			
Toluene	2.14000	0.25	2.00000		107	70 - 130			
Trichloroethene	2.20000	0.25	2.00000		110	70 - 130			
Vinyl chloride	2.14000	0.25	2.00000		107	70 - 130			
Surrogate: 4-Bromofluorobenzene	*2.690*		*2.50000*		*108*	*70 - 130*			
LCS Dup (B3F0608-BSD1)				Prepared: 6/28/2013 Analyzed: 6/28/2013					
1,1-Dichloroethane	2.26000	0.25	2.00000		113	70 - 130	1.79	20	
Benzene	2.09000	0.25	2.00000		104	70 - 130	0.477	20	
Chloroform	2.30000	0.25	2.00000		115	70 - 130	2.20	20	
o-Xylene	2.40000	0.25	2.00000		120	70 - 130	0.837	20	
Tetrachloroethene	2.39000	0.25	2.00000		120	70 - 130	0.840	20	
Toluene	2.14000	0.25	2.00000		107	70 - 130	0.00	20	
Trichloroethene	2.23000	0.25	2.00000		112	70 - 130	1.35	20	
Vinyl chloride	2.18000	0.25	2.00000		109	70 - 130	1.85	20	
Surrogate: 4-Bromofluorobenzene	*2.700*		*2.50000*		*108*	*70 - 130*			

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 07/08/2013

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

Analyte	Result (ppbv)	PQL (ppbv)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3F0608 - No_Prep_Air									
Blank (B3F0608-BLK1)				Prepared: 6/28/2013 Analyzed: 6/29/2013					
Gasoline Range Organics	ND	25			NR				
Surrogate: 4-Bromofluorobenzene	*2.170*		*2.50000*		*86.8*	*70 - 130*			
LCS (B3F0608-BS2)				Prepared: 6/28/2013 Analyzed: 6/29/2013					
Gasoline Range Organics	235.160	25	200.000		118	70 - 130			
Surrogate: 4-Bromofluorobenzene	*2.380*		*2.50000*		*95.2*	*70 - 130*			
LCS Dup (B3F0608-BSD2)				Prepared: 6/28/2013 Analyzed: 6/29/2013					
Gasoline Range Organics	240.290	25	200.000		120	70 - 130	2.16	20	
Surrogate: 4-Bromofluorobenzene	*2.480*		*2.50000*		*99.2*	*70 - 130*			

Certificate of Analysis

Advanced Technology Laboratory-Las Vegas	Project Number : -
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Las Vegas , NV 89118	Reported : 07/08/2013

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)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

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: James Dye

01-Jul-13

					Requested Tests		
	Sample ID	Matrix	Date Collected	Bottle Type	EPA TO15	EPA TO3	
130491-01	N010487-001A / VINF-06-28	Air	6/28/2013 3:15:00 PM	BAG	1	1	

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#:N010487 For questions, call Marlon at (702)-307-2659. Please e-mail results to marlon@atl-labs.com by: Normal TAT

		Date/Time			Date/Time
Relinquished by:	MARLON	07/01/2013	Received by:	C. Aguilar	7/1/13 9:00
Relinquished by:			Received by:		

CHAIN OF CUSTODY RECORD - PLEASE COMPLETE ALL SHADED AREAS

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O. #: Quote #:

As the authorized agent of the below named company, I hereby purchase testing services from ATL as dictated below and guarrantee payment in full.

Submitter (Print):

Signature:

Submitter - Please complete all SHADED areas and include QUOTE # above to ensure proper invoicing.

FOR LABORATORY USE ONLY

Method of Transport
☐ Client ☐ ATL ☐ FedEx ☐ OnTrac ☐ GSO ☐ Other: _____

Sample Condition Upon Receipt

1. CHILLED	Y ☐ N ☐	4. SEALED	Y ☐ N ☐
2. HEADSPACE (VOA)	Y ☐ N ☐	5. # OF SPLS MATCH COC	Y ☐ N ☐
3. CONTAINER INTACT	Y ☐ N ☐	6. PRESERVED	Y ☐ N ☐

Client:	Advanced Technology Laboratory-Las Vegas	Address:	3151 W Post Rd.
		City:	Las Vegas
		State:	NV
		Zip Code:	89118
Tel:	(702) 307-2659		
Fax:	(702) 307-2691		
Project Name:	CH2M HILL- Norwalk	Project #:	
Sampler:		(Signature)	

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date: 6/28/13	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

Bill To:	Send Report to:	Special Instructions/Comments:
Attn: Email:	Attn: Email:	1 Tech (30 min x 2DT) + (30 min shipping time)
Company:	Company:	Ship via Fed Ex
Address:	Address:	
City: State: ZIP:	City: State: ZIP:	

Samples and Records - Archival & Disposal
Unless otherwise requested by client, all samples and Hard copy records will be disposed Forty-five (45) days after generation of report - electronic copies retained for five (5) years.

Storage Fees (applies when storage is requested):
- **Samples:** Forty-five (45) Days Complimentary - $2.00 / sample /mo thereafter.
- **Hardcopy Reports $17.50 per report .**

CIRCLE or **Write IN** Analyses

CIRCLE APPROPRIATE MATRIX

Q A / Q C
RTNE ☐
CT ☐
Legal ☐
SWRCB ☐ Logcode____
OTHER ____

ITEM	BUSINESS HOURS 8:30 AM TO 5:30 PM	Sample Description			8260 - 624 (Volatiles)	8015B (GRO) / 8021 (BTEX)	TO-15 / TO-14 / TO-3 / RSK-175	8270B - 625 (BNA) / 8310 (PAHs)	8015B (DRO) / 8015B (HCID)	8081 OrgCl / 8141 OrgPO4 Pest	8082 PCBs	6010B - 200.7 CAM Metals	6010B - 200.7 Metals	6020 - 200.8 - 1640 Metals	7199 - 218.6 (Hex. Chromium)	300 (Anions) / 314 (Perchlorate)	Field Services	Special Instructions/Comments:	SOIL / SED)IMENT / SLUDGE	SOLIDS / WIPES / FILTERS	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	Container(s) TAT	#	Type	PRESERVATION	REMARKS
	Lab No.	Sample ID / Location	Date	Time																							
1	1301997-01	-	6/28/2013														X										
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											

- Samples Submitted AFTER 3:30 PM, are considered received the following business day at 8:30 AM.

WEEKEND, HOLIDAY, OFF HOURS WORK - ASK for QUOTE

Container Types: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister

Material: 1=Glass; 2=Plastic; 3=Metal

Preservatives: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

TAT 0	TAT 1	TAT 2	TAT 3	TAT 4	TAT 5	TAT 10
300% SURCHARGE SAME BUSINESS DAY IF RCV'D BY 9:00 AM	100% SURCHARGE NEXT BUSINESS DAY 5:30 PM	50% SURCHARGE 2ND BUSINESS DAY 5:30 PM	30% SURCHARGE 3RD BUSINESS DAY 5:30 PM	20% SURCHARGE 4TH BUSINESS DAY 5:30 PM	NO SURCHARGE 7 BUSINESS DAYS 5:30 PM	5% DISCOUNT 10th BUSINESS DAY 5:30 PM

FOR RUSH TCLP / STLC, ADD 2 DAYS TO RESPECTIVE TAT.

Subcon. TAT is 10 - 15 business days; Dioxin and Furans 21 business days.

Rachelle Arada

From: Marlon B. Cartin [marlon@atl-labs.com]
Sent: Monday, July 01, 2013 4:31 PM
To: Rachelle Arada
Cc: Carmen Aguila; Fernando Diwa
Subject: RE: Scanned document.

Hi Rache!

Please change the TAT of the vapor sample you got last Friday. My client needs the result on Monday next week.

Thanks,

Marlon

From: Marlon Cartin [mailto:marlon@atl-labs.com]
Sent: Monday, July 01, 2013 9:02 AM
To: fernando@atlglobal.com
Cc: carmen@atlglobal.com; rachelle@atlglobal.com
Subject: Fwd: Scanned document.

Hi Ron!

Please see attached Sub-COC.

Thanks,

Marlon

> ---------- Original Message ----------
> From: bizhub_601@atl-labs.com
> To: marlon@atl-labs.com
> Date: July 1, 2013 at 9:53 AM
> Subject: Scanned document.
>
> Scanned document.