ARCADIS

Infrastructure, buildings, environment, communications

ARCADIS G&M, Inc.
1400 N. Harbor Blvd Suite 700
Fullerton, California 92835-4127
Tel: 714.278.0992
Fax: 714.278.0051
www.arcadis-us.com

ATTN: Information Technology Unit
California Regional Water Quality Control Board
Los Angeles Region (RWQCB)
320 West 4th Street, Suite 200
Los Angeles, California 90013

ENVIRONMENTAL

Subject:
Semi-Annual (Third and Fourth Quarter) 2005 Discharge Monitoring Report
Waste Discharge Requirements Order Number R4-2002-0030 (Series 007)
Compliance File Number CI-95-036, SLIC 0410
Project Site: Former Boeing C-6 Facility (Building 2 Area), Los Angeles, California

Date:
January 26, 2006

Contact:
Barry Molnaa

Phone:
Ext. 3023

Email:
bmolnaa@arcadis-us.com

Project Number:
CA000674.0001.00002

Dear Information Technology Unit:

On behalf of Boeing Realty Corporation (BRC), ARCADIS is submitting this semi-annual groundwater monitoring report per the Waste Discharge Requirements (WDR) Order Number R4-2002-0030 (Series 007). The purpose of this report is to provide the Los Angeles Regional Water Quality Control Board (RWQCB) with a summary of bioremediation amendment injection and groundwater monitoring activities performed at the above-referenced project site. The site is located at 19503 Normandie Avenue, Los Angeles, California. Figures 1 and 2 illustrate the site location and the site layout, respectively.

This monitoring report summarizes groundwater amendment and monitoring activities performed during the third and fourth quarter of 2005. Amendment activities performed during the reporting period are summarized in Section 1.0. Groundwater monitoring activities performed to evaluate the distribution of amendment solution are summarized in Section 2.0. A certification statement is provided in Section 3.0.

1.0 Amendment Activities

Amendment activities (carbohydrate injection or water injection testing activities) were not conducted during the third and fourth quarter of 2005.

2.0 Monitoring Activities

During the third and fourth quarter of 2005, quarterly groundwater monitoring was performed at the site. Per the WDR monitoring schedule, quarterly groundwater monitoring follows the initial nine months of post-injection groundwater monitoring

(sample Week 2, Week 6, Week 12, Week 16, Week 21, and Week 36 after the first injection).

Third quarter groundwater monitoring was conducted on September 21 and 22, 2005. Fourth quarter groundwater monitoring was performed on December 19 through 21, 2005. During the third and fourth quarter 2005 monitoring events, 11 monitoring wells (IRZMW001A/B, IRZMW002A/B, IRZMW003A/B, IRZMW004, IRZMW005, IRZCMW001, IRZCMW002, IRZCMW003, CMW0001, CMW0002, and CMW0026) were gauged and sampled. The monitoring well locations are identified on Figure 2. During the December 2005 sampling event, well IRZMW001A was gauged but not sampled because of an obstruction in the well. The groundwater samples from third and fourth quarter 2005 monitoring were analyzed for volatile organic compounds (VOCs). Field parameters of purged groundwater were also collected (ferrous iron, pH, dissolved oxygen [DO], oxidation reduction potential [ORP], specific conductance, and temperature). Samples collected from IRZCMW002 and CMW0002 on September 22, 2005 appear to be switched. Discussion with field personnel, laboratory personnel, and comparisons with field notes were inconclusive. However, the laboratory results appear to confirm the error when compared to historical data trends. Samples collected on December 21, 2005 verified the previous results and support the anomaly.

Field parameter data, laboratory analytical methods, and analytical results from the groundwater monitoring events are summarized in Tables 1 through 4. Samples collected from the above mentioned groundwater monitoring wells were not analyzed for total organic carbon (TOC), bromide, total iron, total manganese, dissolved manganese, nitrate, sulfate, and permanent gases (DO, carbon dioxide, nitrogen, methane, ethane, and ethene) during the third and fourth quarter 2005 per the WDR permit schedule. Inorganic and permanent gases analytical results from past sampling events are provided as Table 2 and Table 4, respectively. Laboratory analytical data with associated chain-of-custody documentation are provided in Appendix A. Sample collection logs with field parameters and monitoring well sampling data are maintained in the project files and are not provided with this report.

Prior to collecting the groundwater samples, depth to groundwater was measured in each monitoring well using a water level meter accurate to 0.01 feet. Figure 3 shows the groundwater elevation contours for Zones B and C in December 2005. Groundwater samples were collected using low flow sampling techniques, so that the purge rate was generally less than 600 milliliters per minute (mL/min) and drawdown while purging was less than 1 foot. The elevations measured in both zones appear to be relatively flat. Calculated contours indicate that there is a slight shift in groundwater flow direction, which may be attributed to seasonal rainfall and the location of monitoring wells.

The sampling methodology also involved use of a flow-through cell that contains field instrumentation used to measure groundwater stabilization parameters (i.e., temperature, pH, specific conductance, ORP, and DO). For each monitoring well, the flow-through cell was connected to a submersible pump with dedicated polyethylene tubing. Once the field parameters stabilized, groundwater samples were collected in laboratory-prepared containers. Field parameters and other relevant sampling data were documented on sample collection logs. The groundwater samples were transported in a chilled ice chest with proper chain-of-custody documentation to an analytical laboratory certified by the State of California (Severn Trent Laboratories, Inc.).

3.0 Certification Statement

I declare under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who managed the system or those directly responsible for gathering the information, the information submitted, is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Date JAN. 30, 2006

Richard Orens, P.E.
Senior Engineer

REGISTERED PROFESSIONAL ENGINEER
RICHARD ALLEN ORENS
No. P 1743
Exp. 08/30/06
STATE OF CALIFORNIA

If you have any questions or comments regarding this discharge monitoring report, please contact Barry Molnaa or Eric Lothman at (714) 278-0992.
Sincerely,

ARCADIS G&M, Inc.

Vincent Salazar, E.I.T.
Staff Engineer

Eric Lothman, P.E.
Project Engineer

Barry Molnaa
Project Manager

Copies:
Stephanie Sibbett-Brutocao, Boeing Realty Corporation
Project File

Enclosures:
Figure 1 - Site Location
Figure 2 - Amendment Point and Monitoring Well Locations
Figure 3 - Groundwater Contour Map for Zones B and C - December 2005
Table 1 - Groundwater Parameter and Total Organic Carbon Results
Table 2 - Inorganic Analytical Results
Table 3 - Volatile Organic Compound Analytical Results
Table 4 - Permanent Gas Analytical Results
Appendix A - Laboratory Reports and Chain-of Custody Documents

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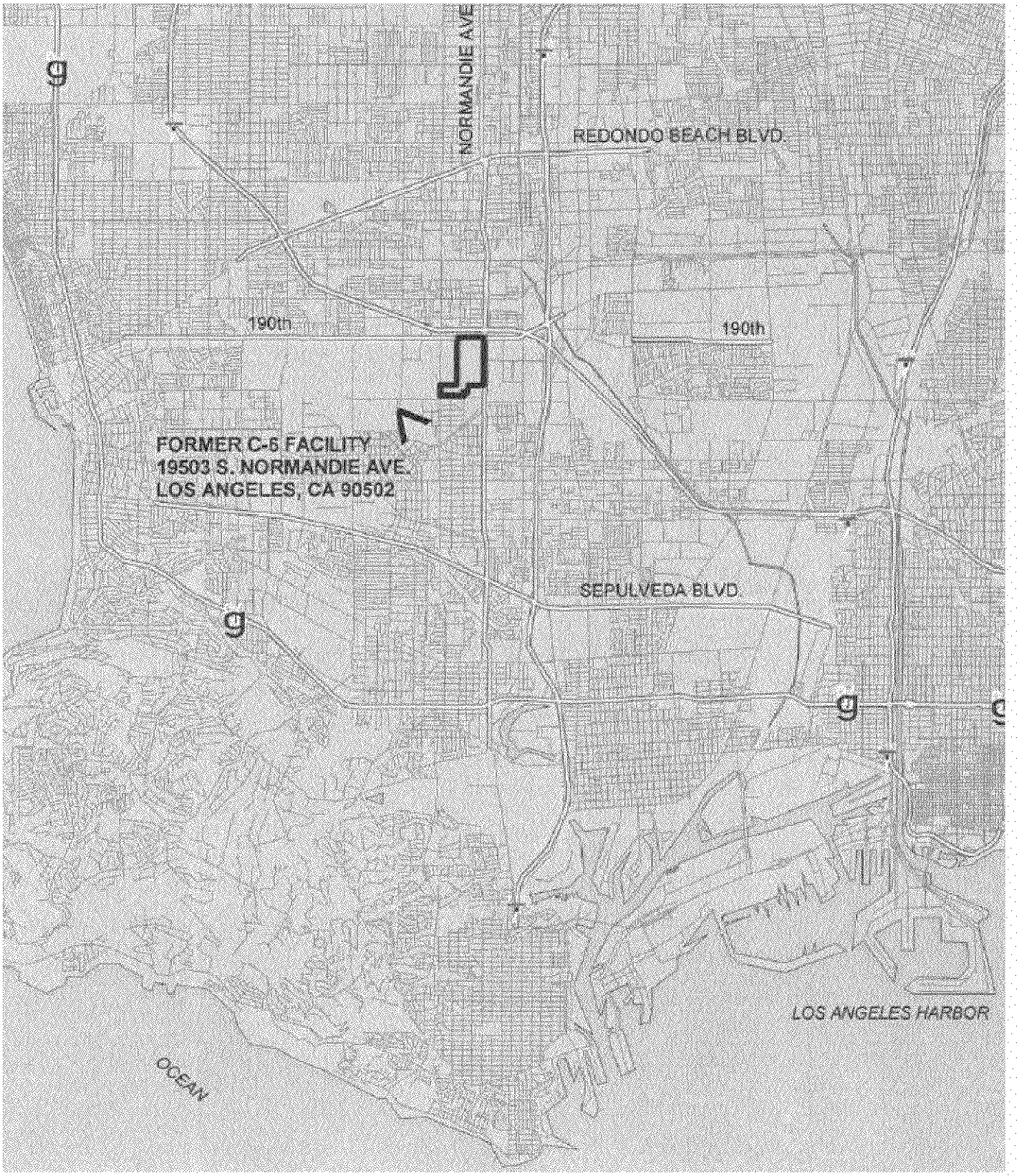
Figures



Base map download from "Tiger File" data website hosted by ESRI.

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SITE LOCATION

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

FIGURE

1

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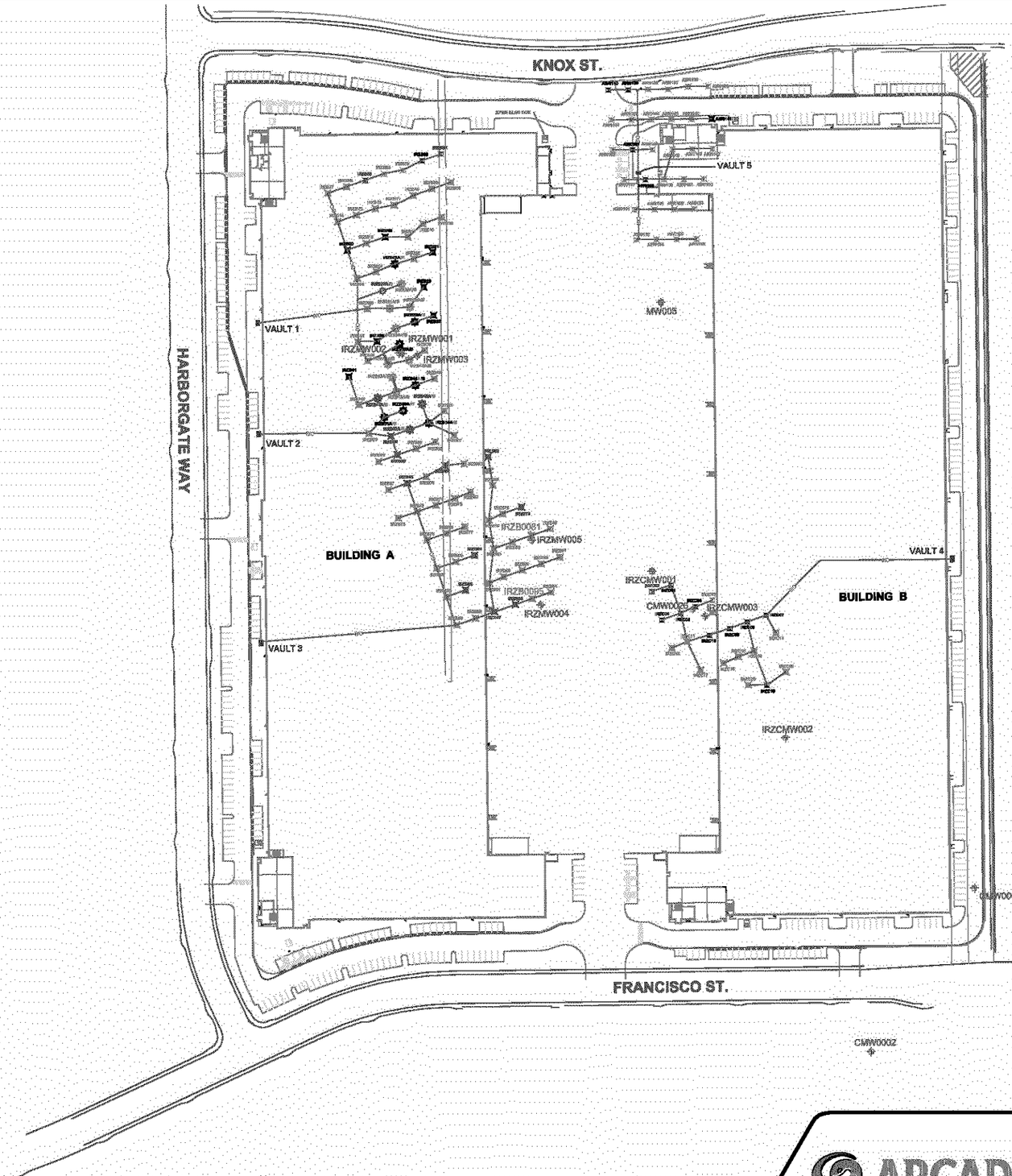

LEGEND

IRZCMW005	BIOGROUNDWATER MONITORING WELL
IRZ030A/B	DUAL BIOINJECTION POINT
IRZ031	SINGLE BIOINJECTION POINT
	AMENDMENT POINTS TAKEN OUT OF SERVICE
	AMENDMENT POINTS REQUIRING MODERATE INJECTION PRESSURE
	AMENDMENT POINTS THAT SIPHON DURING INJECTION
VAULT 1	FLUSH MOUNTED VAULT FOR SUBSURFACE REMEDIATION PIPING
BIO	BIOREMEDIATION SYSTEM PIPING

N

0 90 180
SCALE IN FEET

ALL DIMENSIONS AND LOCATIONS APPROXIMATE

BASE MAP PROVIDED BY HILL PINKERT ARCHITECTS, INC. IN FEBRUARY 2003

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AMENDMENT POINT AND MONITORING WELL LOCATIONS

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

FIGURE 2

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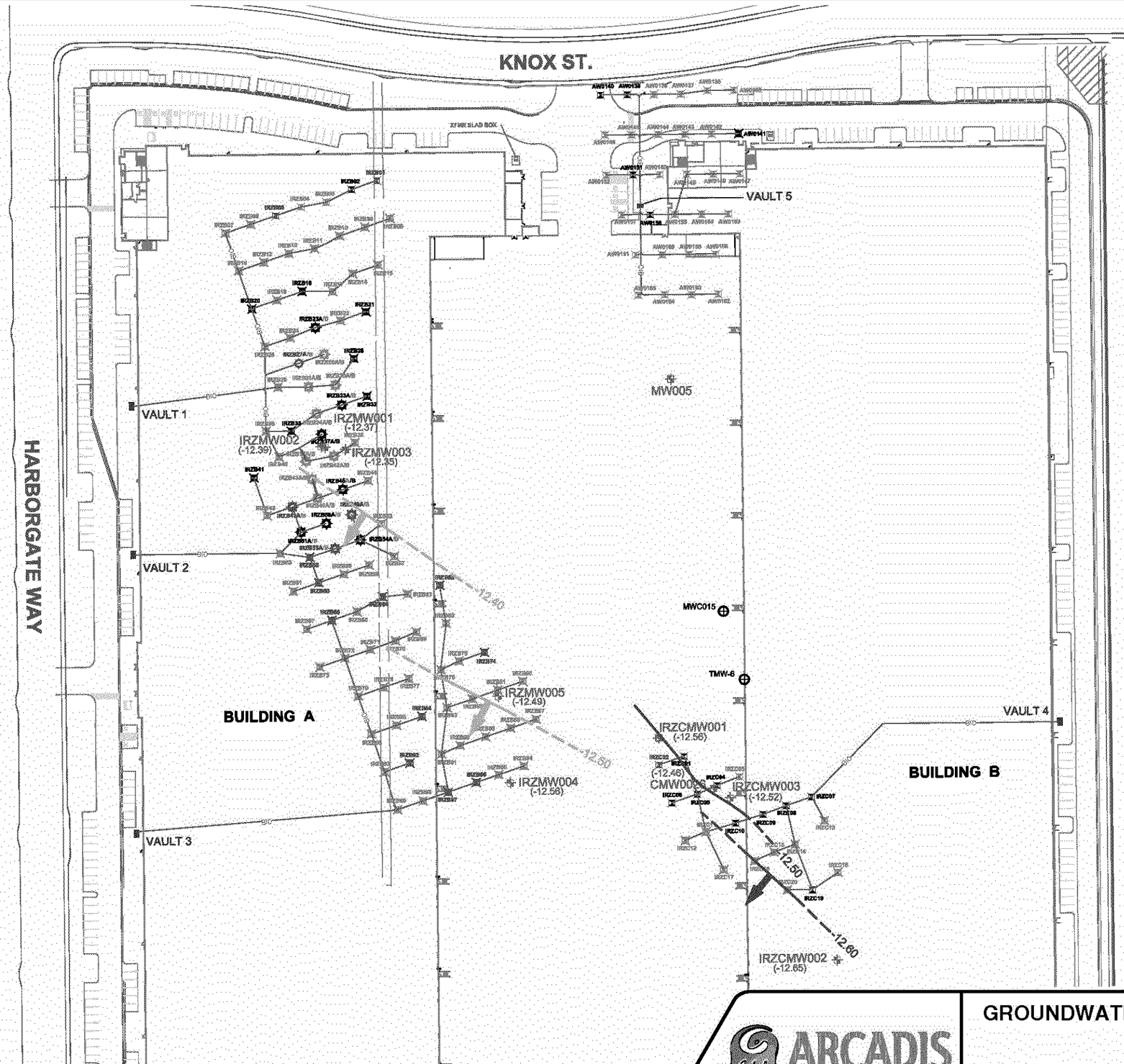

LEGEND

IRZCMW005	BIOGROUNDWATER MONITORING WELL
(-13.52)	GROUNDWATER ELEVATION IN FEET BELOW MEAN SEA LEVEL
	GROUNDWATER MONITORING WELL
IRZ030A/B	DUAL BIOINJECTION POINT
IRZ031	SINGLE BIOINJECTION POINT
	AMENDMENT POINTS TAKEN OUT OF SERVICE
	AMENDMENT POINTS REQUIRING MODERATE INJECTION PRESSURE
	AMENDMENT POINTS THAT SIPHON DURING INJECTION
VAULT 1	FLUSH MOUNTED VAULT FOR SUBSURFACE REMEDIATION PIPING
BIO	BIOREMEDIATION SYSTEM PIPING
	ZONE B CONTOUR OF EQUAL GROUNDWATER SURFACE ELEVATION IN FEET BELOW MEAN SEA LEVEL
	ZONE C CONTOUR OF EQUAL GROUNDWATER SURFACE ELEVATION IN FEET BELOW MEAN SEA LEVEL

N

0 60 120
SCALE IN FEET

ALL DIMENSIONS AND LOCATIONS APPROXIMATE

BASE MAP PROVIDED BY HILL PINKERT ARCHITECTS, INC. IN FEBRUARY 2003

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GROUNDWATER CONTOUR MAP FOR ZONES B AND C
DECEMBER 2005

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

FIGURE
3

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Tables

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Table 1. Groundwater Parameter and Total Organic Carbon Results
Former Building 2 Area, Former Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	Top of Casing (feet msl)	Depth to Water (feet)	Groundwater Elevation (feet msl)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Temperature (oC)	Specific Conductance (umhos/cm)	Hydrogen Sulfide (mg/L)	Ferrous Iron (mg/L)	Total Organic Carbon (mg/L)
IRZB0081	Zone B	A	Baseline	10/9/2003	50.28	64.53	-14.25	6.7	5.1	144.4	21.6	1,563	Too Turbid	Too Turbid	5.8
			Week 2	10/22/2004		64.51	-14.23	7.3	3.7	-42.8	22.6	922	0	<1.0	2.8
			Alt. Amend. Monitoring	12/14/2004		64.48	-14.20	5.2	1.8	-53.0	21.9	8,147	NM	NM	4,560
			Week 12	1/5/2005		64.61	-14.33	4.9	1.3	-21.9	21.7	7,384	Too Turbid	Too Turbid	6,140
			Alt. Amend. Monitoring	1/14/2005		64.39	-14.11	4.9	27.9	6.5	22.4	4,755	NM	NM	4,750
			Week 16	1/28/2005		64.25	-13.97	5.1	0.8	-43.1	21.7	4,803	<2.5	2.2	3,750
			Alt. Amend. Monitoring	2/11/2005		63.94	-13.66	5.7	1.1	-92.9	21.7	4,088	NM	NM	2,140
			Week 21	3/20/2005		64.29	-14.01	5.5	2.1	-68.2	22.1	5,309	0.7	Too Turbid	3,260
			Quarterly Monitoring	9/22/2005		63.19	-12.91	7.7	0.1	-110.6	23.4	4,820	0.5	0.2	NM
			Quarterly Monitoring	12/20/2005		62.95	-12.67	7.2	1.9	-90.1	22.1	2,865	0.3	5.5	NM
IRZB0095		A	Baseline	10/7/2003	50.08	64.59	-14.51	7.0	5.6	83.7	23.1	1,435	0	1.3	3.0
			Week 2	10/22/2004		64.50	-14.42	7.4	5.1	-47.1	22.2	661	0	<1.0	2.4
			Week 6	11/19/2004		64.37	-14.29	7.4	6.7	67.2	22.1	1,142	Too Turbid	Too Turbid	4.4
			Alt. Amend. Monitoring	12/14/2004		64.49	-14.41	7.4	4.9	-5.4	22.2	1,296	NM	NM	3.3
			Week 12	1/5/2005		65.28	-15.20	6.8	2.6	-90.5	21.1	5,873	Too Turbid	Too Turbid	1,890
			Alt. Amend. Monitoring	1/14/2005		NM	--	6.7	20.6	-107.7	21.9	4,858	NM	NM	2,400
			Week 16	1/28/2005		64.41	-14.33	6.7	2.1	-98.1	20.7	4,592	<2.0	1	2,060
			Alt. Amend. Monitoring	2/11/2005		64.04	-13.96	6.8	2.4	-103.8	21.0	4,244	NM	NM	1,580
			Week 21	3/20/2005		64.29	-14.21	6.9	3.5	-116.4	21.6	2,555	0	Too Turbid	811
			Quarterly Monitoring	9/21/2005		63.27	-13.19	7.2	0.3	-84.0	23.4	2,730	0	0	NM
			Quarterly Monitoring	12/20/2005		62.83	-12.75	7.0	2.9	-59.0	21.8	2,391	NM	NM	NM
IRZMW001A		A	Baseline	10/30/2003	54.18	68.05	-13.87	6.7	4.8	245.9	21.9	2,354	0	0	5.0
			Injection Evaluation	5/21/2004		68.61	-14.43	7.1	2.7	47.4	25.3	2,595	NM	NM	5.5
			Injection Evaluation	10/12/2004		67.69	-13.51	6.0	1.2	-31.6	21.0	2,538	NM	NM	3.5
			Week 2	10/22/2004		68.00	-13.82	6.9	0.3	-10.1	25.6	2,339	0	<1.0	4.3
			Week 6	11/18/2004		68.08	-13.90	6.9	1.5	33.1	27.1	2,048	0	<1.0	5.3
			Week 12	1/4/2005		67.84	-13.66	6.9	0.4	21.9	24.2	2,345	0	<1.0	6.1
			Week 16	1/27/2005		67.85	-13.67	6.9	0.3	64.8	22.8	1,893	0	0	4.4
			Week 21	3/19/2005		67.65	-13.47	6.9	0.3	-77.9	26.1	1,994	0	1.0	3.6
			Week 36	6/15/2005		67.28	-13.10	NM	NM	NM	NM	NM	NM	NM	NM
			Quarterly Monitoring	9/21/2005		66.86	-12.68	7.3	0.4	118.9	23.7	1,994	0	1.0	NM
			Quarterly Monitoring	12/19/2005		66.57	-12.39	NM	NM	NM	NM	NM	NM	NM	NM
IRZMW001B		A	Baseline	10/30/2003	54.10	67.98	-13.88	6.8	6.2	159.6	21.8	1,254	0	1	3.8
			Injection Evaluation	5/21/2004		68.11	-14.01	7.3	6.8	78.3	23.7	1,278	NM	NM	3.6
			Injection Evaluation	10/12/2004		67.70	-13.60	7.3	2.2	5.6	21.4	1,042	NM	NM	5.8
			Week 2	10/22/2004		68.07	-13.97	7.3	4.0	53.7	22.7	1,168	0	0.1	2.0
			Week 6	11/18/2004		68.00	-13.90	7.2	6.6	125.0	24.2	953	0.1	0.3	5.2
			Week 12	1/4/2005		67.72	-13.62	7.3	6.1	40.6	21.3	1,111	0	0.4	6.3
			Week 16	1/27/2005		67.77	-13.67	7.2	4.7	94.9	22.6	919	0	0	3.0
			Week 21	3/19/2005		67.59	-13.49	7.3	5.4	11.1	24.4	982	0.1	0.5	4.4
			Week 36	6/15/2005		67.22	-13.12	NM	NM	NM	NM	NM	NM	NM	NM
			Quarterly Monitoring	9/24/2005		66.79	-12.69	7.4	5.4	108.8	23.8	1,346	0	0.5	NM
			Quarterly Monitoring	12/19/2005		66.47	-12.37	7.0	3.4	65.6	25.4	1,612	NM	NM	NM
IRZMW002A		A	Baseline	10/30/2003	54.07	67.98	-13.91	6.8	3.1	-140.7	22.1	1,852	5	2	21.8
			Injection Evaluation	5/21/2004		68.39	-14.32	7.2	0.9	-52.5	22.1	2,038	NM	NM	13.3
			Injection Evaluation	10/12/2004		67.85	-13.78	6.1	1.1	-54.1	21.5	2,760	NM	NM	11.1
			Week 2	10/21/2004		68.05	-13.98	6.4	0.2	-107.4	23.5	2,860	0	<1.0	10.1
			Week 6	11/18/2004		68.21	-14.14	6.5	2.2	-102.7	25.8	2,220	0	Too Turbid	9.7
			Week 12	1/4/2005		67.74	-13.67	6.8	0.9	-26.6	21.3	2,389	0	Too Turbid	7.2
			Week 16	1/27/2005		68.02	-13.95	6.8	0.7	19.3	22.2	1,882	0	0.5	6.0
			Week 21	3/19/2005		67.22	-13.15	6.9	0.8	-24.1	22.0	1,865	0	2	11.2
			Week 36	6/15/2005		67.19	-13.12	NM	NM	NM	NM	NM	NM	NM	NM
			Quarterly Monitoring	9/21/2005		66.77	-12.70	NM	NM	NM	NM	NM	0	2.0	NM
			Quarterly Monitoring	12/19/2005		66.40	-12.33	7.0	2.7	10.6	25.2	2,551	0	4.5	NM

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Table 1. Groundwater Parameter and Total Organic Carbon Results
Former Building 2 Area, Former Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	Top of Casing (feet msl)	Depth to Water (feet)	Groundwater Elevation (feet msl)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Temperature (oC)	Specific Conductance (umhos/cm)	Hydrogen Sulfide (mg/L)	Ferrous Iron (mg/L)	Total Organic Carbon (mg/L)
IRZMW002B	Zone B	A	Baseline	10/30/2003	54.17	68.07	-13.90	6.8	4.1	110.3	21.7	1,125	0	Too Turbid	4.1
			Injection Evaluation	5/21/2004		68.97	-14.80	7.2	4.2	45.5	24.0	1,204	NM	NM	5.2
			Injection Evaluation	10/12/2004		67.61	-13.44	7.1	1.3	8.6	21.5	1,254	NM	NM	6.2
			Week 2	10/21/2004		67.99	-13.82	7.3	2.4	-34.3	25.5	1,325	0	<1.0	2.8
			Week 6	11/18/2004		68.18	-14.01	7.1	4.6	48.3	24.1	1,067	0	<1.0	4.6
			Week 12	1/4/2005		67.74	-13.57	7.2	4.0	32.7	21.5	1,234	0	<1.0	3.1
			Week 16	1/27/2005		67.91	-13.74	7.1	3.4	63.4	22.3	1,047	0	0	3.3
			Week 21	3/19/2005		67.21	-13.04	6.9	0.2	-36.6	24.0	1,253	0	2	5.0
			Week 36	6/15/2005		67.30	-13.13	NM	NM	NM	NM	NM	NM	NM	NM
			Quarterly Monitoring	9/21/2005		66.85	-12.68	6.9	0.4	52.4	23.8	1,478	0	0.5	NM
			Quarterly Monitoring	12/20/2005		66.56	-12.39	7.2	1.3	13.9	22.4	1,551	0	1.0	NM
IRZMW005		A	Baseline	10/9/2003	4	64.44	-60.44	7.1	5.3	40.8	21.6	1,591	0	0	3.9
			Injection Evaluation	5/21/2004		64.52	-60.52	7.3	5.8	89.6	21.7	1,546	NM	NM	5.6
			Injection Evaluation	10/12/2004		64.14	-60.14	6.0	1.3	-20.0	24.9	1,972	NM	NM	5.2
			Week 2	10/22/2004		64.36	-14.17	6.8	0.4	-105.7	24.1	1,954	0	0.9	3.1
			Week 6	11/19/2004		64.31	-60.31	6.2	0.8	-19.7	24.8	1,747	0	<1.0	9.7
			Alt. Amend. Monitoring	12/14/2004		64.29	-60.29	6.6	0.6	-42.7	23.6	1,818	NM	NM	5.5
			Week 12	1/5/2005		64.42	-60.42	6.3	0.2	-158.1	23.5	2,281	2	<1.0	57
			Alt. Amend. Monitoring	1/14/2005		64.15	-60.15	6.4	1.0	-109.8	24.9	1,885	NM	NM	157
			Week 16	1/28/2005		64.08	-60.08	6.4	0.1	-154.3	23.1	1,972	<2.5	3.2	267
			Alt. Amend. Monitoring	2/11/2005		63.85	-59.85	6.2	0.6	-172.2	22.4	2,214	NM	NM	499
			Week 21	3/20/2005		64.12	-60.12	6.4	0.1	-120.6	24.0	2,204	0.3	7.0	353
			Week 36	6/15/2005		63.60	-59.60	NM	NM	NM	NM	NM	NM	NM	NM
			Quarterly Monitoring	9/22/2005		63.11	-59.11	7.8	0.1	-101.6	24.0	1,953	0.1	5.0	NM
			Quarterly Monitoring	12/21/2005		62.68	-58.68	6.7	1.9	-60.4	24.5	1,906	0.2	7.0	NM
IRZMW003A		B	Baseline	10/31/2003	54.14	68.21	-14.07	6.8	4.0	210.3	25.7	1,761	Too Turbid	Too Turbid	2.6
			Injection Evaluation	10/12/2004		67.79	-13.65	6.1	1.1	-8.9	21.6	3,107	NM	NM	5.7
			Week 12	1/4/2005		67.82	-13.68	6.6	0.5	-19.2	24.7	2,196	0	<1.0	9.7
			Week 16	1/27/2005		67.85	-13.71	6.6	0.3	123.2	24.7	1,747	0	0	5.5
			Week 21	3/19/2005		67.63	-13.49	6.8	0.5	-45.4	24.7	1,512	Too Turbid	0.3	8.4
			Quarterly Monitoring	9/21/2005		66.82	-12.68	7.4	0.4	86.2	23.8	1,708	0	0.2	NM
			Quarterly Monitoring	12/20/2005		66.43	-12.29	6.9	4.4	35.6	24.3	1,842	0	7.0	NM
IRZMW003B		B	Baseline	10/31/2003	54.20	68.24	-14.04	6.8	5.0	280.4	23.3	1,154	Too Turbid	Too Turbid	3.8
			Injection Evaluation	10/12/2004		67.82	-13.62	7.2	3.9	-10.6	22.7	1,276	NM	NM	3.4
			Week 12	1/4/2005		67.84	-13.64	7.2	4.2	54.2	22.0	1,223	0	0.7	3.4
			Week 16	1/27/2005		67.89	-13.69	7.2	4.6	111.2	22.7	974	0	0	3.8
			Week 21	3/19/2005		67.67	-13.47	7.3	3.7	16.9	23.2	961	0	0.6	3.5
			Quarterly Monitoring	9/21/2005		66.88	-12.68	7.4	0.5	81.6	22.8	1,675	0	0.5	NM
			Quarterly Monitoring	12/20/2005		66.55	-12.35	6.8	2.3	22.5	21.4	2,003	0	0.5	NM
IRZMW004		C	Baseline	10/7/2003	50.48	64.84	-14.36	7.0	4.8	152.9	22.5	1,449	0	0	3.1
			Injection Evaluation	10/12/2004		64.45	-13.97	7.2	2.5	-40.9	24.1	1,337	NM	NM	2.3
			Alt. Amend. Monitoring	12/14/2004		64.63	-14.15	7.2	4.2	-28.6	23.7	1,473	NM	NM	3.6
			Week 12	1/5/2005		64.77	-14.29	7.2	3.5	16.6	23.6	1,453	0.1	1.0	3.8
			Alt. Amend. Monitoring	1/14/2005		64.56	-14.08	7.1	46.0	109.7	23.2	1,213	NM	NM	4.0
			Alt. Amend. Monitoring	2/11/2005		64.16	-13.68	7.3	2.6	178.0	21.7	1,102	NM	NM	7.4
			Week 21	3/20/2005		64.45	-13.97	7.1	1.2	-130.7	23.0	1,149	0.3	3.0	31.7
			Week 36	6/15/2005		63.95	-13.47	6.7	1.3	-77.5	25.4	2,578	NM	<1.0	23.5
			Quarterly Monitoring	9/21/2005		63.45	-12.97	8.1	0.1	-110.6	23.2	1,822	0	2.0	NM
			Quarterly Monitoring	12/21/2005		63.04	-12.56	7.2	2.0	2.8	23.3	1,719	0	1.0	NM

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Table 1. Groundwater Parameter and Total Organic Carbon Results
Former Building 2 Area, Former Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	Top of Casing (feet msl)	Depth to Water (feet)	Groundwater Elevation (feet msl)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Temperature (oC)	Specific Conductance (umhos/cm)	Hydrogen Sulfide (mg/L)	Ferrous Iron (mg/L)	Total Organic Carbon (mg/L)
CMW0026	Zone C	A	Baseline	10/7/2003	48.94	63.38	-14.44	7.2	4.5	34.0	22.3	965	0	0	2.0
			Week2	10/22/2004		63.33	-14.39	7.2	1.1	-86.7	22.7	123	0	1.0	1.6
			Week 6	11/19/2004		63.28	-14.34	7.1	0.7	-202.7	24.0	384	0.2	0.7	11
			Week 12	1/5/2005		63.44	-14.50	7.0	1.6	-13.8	22.3	72	0	1.0	2.7
			Week 16	1/28/2005		63.31	-14.37	6.7	0.1	-108.7	22.6	459	0.8	3.2	22
			Week 21	3/19/2005		62.92	-13.98	7.3	3.6	12.8	22.2	64	0	1.4	11.0
			Week 36	6/15/2005		62.46	-13.52	NM	NM	NM	NM	NM	NM	NM	NM
			Quarterly Monitoring	9/22/2005		61.98	-13.04	7.3	0.1	23.9	23.6	202	0	1.5	NM
			Quarterly Monitoring	12/21/2005		61.40	-12.46	6.7	NM	23.0	21.2	234	0	1.5	NM
IRZCMW003		B	Baseline	10/7/2003	49.12	63.58	-14.46	7.2	2.7	133.5	22.8	951	0	0	2.0
			Injection Evaluation	10/12/2004		62.98	-13.86	7.3	1.1	-7.5	22.3	969	NM	NM	2.4
			Week 12	1/5/2005		63.62	-14.50	7.3	0.5	-45.8	21.5	907	0	0.2	2.7
			Week 16	1/28/2005		63.41	-14.29	7.3	0.3	105.3	22.6	729	0	0	2.3
			Week 21	3/19/2005		63.03	-13.91	7.4	0.2	-73.8	22.0	730	NM	0.4	2.8
			Week 36	6/15/2005		62.65	-13.53	NM	NM	NM	NM	NM	NM	NM	NM
			Quarterly Monitoring	9/22/2005		62.18	-13.06	7.9	0.1	40.0	23.1	1,001	0	0.5	NM
			Quarterly Monitoring	12/21/2005		61.64	-12.52	7.4	1.2	9.6	22.2	1,085	0	0	NM
IRZCMW002		C	Baseline	10/8/2003	52.98	67.78	-14.80	7.0	2.4	188.5	21.4	888	0	0	3.2
			Injection Evaluation	10/12/2004		67.25	-14.27	7.4	1.1	-51.0	21.4	974	NM	NM	2.2
			Week 12	1/5/2005		68.02	-15.04	7.4	0.9	146.5	21.3	912	0	0.2	2.2
			Week 21	3/19/2005		67.25	-14.27	7.7	0.2	-169.5	22.5	709	0.4	0.3	11.7
			Week 36	6/15/2005		66.72	-13.74	7.2	0.2	-285.4	23.6	2,024	NM	<0.1	157
			Quarterly Monitoring	9/22/2005		66.19	-13.21	8.4	0.1	-121.5	22.9	1,674	0.2	0.5	NM
			Quarterly Monitoring	12/21/2005		65.63	-12.65	7.2	1.2	-98.7	21.0	1,890	0.1	6.5	NM
CMW001		C	Baseline	10/9/2003	51.81	66.81	-15.00	6.8	2.6	-120.0	23.3	948	0.5	0	23
			Week 12	1/5/2005		66.83	-15.02	7.3	0.5	-95.3	23.0	1,017	0	0.3	28
			Week 21	3/18/2005		66.63	-14.82	7.3	0.2	-62.2	23.5	806	0	0	26
			Week 36	6/15/2005		65.68	-13.87	7.3	0.5	-142.3	27.6	1,352	NM	<0.1	15.8
			Quarterly Monitoring	9/22/2005		65.19	-13.38	8.1	0.1	-30.2	24.7	908	0	0	NM
			Quarterly Monitoring	12/21/2005		64.70	-12.89	7.5	NM	-16.6	22.9	925	0	1	NM
CMW002		C	Baseline	10/8/2003	Not Surveyed	65.29	--	6.9	2.2	51.4	23.0	788	0	0	8.0
			Week 12	1/3/2005		64.80	--	5.2	0.5	-6.6	22.5	875	0	0.2	14
			Week 21	3/18/2005		64.51	--	7.3	0.2	-56.7	22.6	699	0	0	12.7
			Week 36	6/15/2005		64.17	--	7.2	0.6	-72.6	24.1	1,427	NM	<0.1	13.3
			Quarterly Monitoring	9/22/2005		63.51	--	8.2	0.1	31.1	24.2	922	0	0	NM
			Quarterly Monitoring	12/21/2005		63.18	--	7.3	NM	23.9	21.0	1,026	0	0	NM
IRZCMW001		D	Baseline	10/8/2003	49.14	63.65	-14.51	7.1	4.2	183.0	21.7	1,219	0	0	3.3
			Injection Evaluation	10/12/2004		NM	NM	7.2	2.5	-12.0	22.3	1,313	NM	NM	2.5
			Week 6	11/18/2004		63.52	-14.38	7.2	1.5	46.9	24.2	1,117	0	0.1	2.3
			Week 12	1/4/2005		63.41	-14.27	7.2	0.5	9.0	21.3	1,248	0	0.2	2.1
			Week 21	3/19/2005		62.97	-13.83	7.3	0.1	-50.6	23.4	1,028	0	0.5	3.7
			Week 36	6/15/2005		62.66	-13.52	NM	NM	NM	NM	NM	NM	NM	NM
			Quarterly Monitoring	9/22/2005		62.17	-13.03	7.9	0.1	11.3	23.1	1,337	0	0.1	NM
			Quarterly Monitoring	12/21/2005		61.70	-12.56	7.3	3.5	8.2	22.7	1,475	0	1.0	NM
EPA Analytical Method						N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9060

Notes:
Wells micropurged then sampled, except grab bailer samples collected 10/12/04.
Group A: wells located within the estimated injection area
Group B: wells located at the estimated edge of the injection area
Group C: wells located downgradient of the treatment area
Group D: wells located upgradient of the treatment area
feet msl - feet above mean sea level

mg/L - milligrams per liter
mV - millivolts
°C - degrees Celsius
N/A - Not applicable
NM - Not measured

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Table 2. Inorganic Analytical Results
Former Building 2 Area, Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	Bromide (mg/L)	Chloride (mg/l)	Total Iron (mg/L)	Dissolved Manganese (mg/L)	Total Manganese (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)
IRZB0081	Zone B	A	Baseline	10/9/2003	0.94	348	25	0.05	1.4	8.5	<1	43.8
			Week 12	1/5/2005	746	NS	NS	5.1	NS	<2	NS	104
			Week 16	1/28/2005	<2.5	NS	NS	7.0	NS	<2	NS	38.1
			Week 21	3/20/2005	<25	283	410	9.5	9.6	<1	<0.5	13.7
IRZB0095		A	Baseline	10/7/2003	0.85	320	3.30	0.052	0.78	7.2	<1	38.6
			Week 6	11/19/2004	0.64	NS	NS	0.016	NS	6.5 J	NS	49.7
			Week 12	1/5/2005	18	NS	NS	5.7	NS	<1	NS	45.5
			Week 16	1/28/2005	<5	NS	NS	7.1	NS	<0.5	NS	20.6
			Week 21	3/20/2005	<5	90	70	2.3	3.4	0.30	<1	22.0
IRZMW001A		A	Baseline	10/30/2003	3.6	615	6.8	0.019	0.24 J	14	<1	88.6
			Week 6	11/18/2004	1.9	NS	NS	0.064	NS	8.8 J	NS	60.2
			Week 12	1/4/2005	1.9	NS	NS	0.019	NS	9.4	NS	62.9
			Week 16	1/27/2005	1.9	NS	NS	0.048	NS	9.2	NS	62.3
			Week 21	3/19/2005	2.1	490	0.35	0.15	0.17	3.1	0.3 JQC	59.3
IRZMW001B		A	Baseline	10/30/2003	0.73	218	2.9	0.020	0.09 J	5.8	<0.5	98.0
			Week 6	11/18/2004	0.41 J	NS	NS	0.0041 J	NS	6.8 J	NS	87.9
			Week 12	1/4/2005	0.43 J	NS	NS	0.0014 J	NS	7.2	NS	93.9
			Week 16	1/27/2005	0.47 J	NS	NS	0.037	NS	7.3	NS	93.2
			Week 21	3/19/2005	0.45 J	158	0.078 J	0.0023 J	0.02	5.5	<0.5	80.8
IRZMW002A		A	Baseline	10/31/2003	2.3	444	13	3.6	3.7 J	0.13	<1	77.8
			Week 6	11/18/2004	1.7	NS	NS	2.1	NS	4.3 J	NS	64.6
			Week 12	1/4/2005	1.8	NS	NS	1.7	NS	3.7	NS	68.1
			Week 16	1/27/2005	1.7	NS	NS	1.5	NS	5.0	NS	64.9
			Week 21	3/19/2005	1.8	509	3.6	1.5	1.9	3.0	<0.5	66.2
IRZMW002B		A	Baseline	10/30/2003	0.94	220	12	0.150	0.31 J	6.9	0.21 QC	80.9
			Week 6	11/18/2004	0.66	NS	NS	0.035	NS	8.6 J	NS	98.1
			Week 12	1/4/2005	0.64	NS	NS	0.018	NS	9.5	NS	94.8
			Week 16	1/27/2005	0.78	NS	NS	0.022	NS	8.1	NS	67.6
			Week 21	3/19/2005	0.73	229	1.3	0.044	0.07	2.7	<0.5	47.8
IRZMW005		A	Baseline	10/9/2003	0.97	358	2.5	0.02	0.10	8.6	<1	41.6
			Week 6	11/19/2004	0.98	NS	NS	0.05	NS	4.7 J	NS	36.0
			Week 12	1/5/2005	0.89	NS	NS	2.6	NS	<0.1	NS	23.4
			Week 16	1/28/2005	<25	NS	NS	3.5	NS	<0.5	NS	15.7
			Week 21	3/20/2005	<5	438	41.6	5.2	5.4	0.083 J	<1	5.3
IRZMW003A		B	Baseline	10/31/2003	1.1	465	5.6	0.0069 J	0.11 J	9.6	<1	48.3
			Week 12	1/4/2005	1.4	NS	NS	0.10	NS	6.1	NS	41.3
			Week 16	1/27/2005	1.3	NS	NS	0.12	NS	6.2	NS	41.7
			Week 21	3/19/2005	0.3 J	147	4.6	0.21	0.33	1.5	<0.5	14.0
IRZMW003B		B	Baseline	10/31/2003	0.69	240	8.1	0.051	0.23 J	6.3	<0.5	77.9
			Week 12	1/4/2005	0.59	NS	NS	0.021	NS	6.0	NS	80.8
			Week 16	1/27/2005	0.58	NS	NS	0.019	NS	5.9	NS	79.8
			Week 21	3/19/2005	0.56	185	0.75	0.0089 J	0.02	5.9	<0.5	65.9
IRZMW004		C	Baseline	10/7/2003	0.89	338	4.8	0.013 J	0.30	8.1	<1	41.2
			Week 12	1/5/2005	0.80	NS	NS	0.0028 J	NS	7.3	NS	42.1
			Week 21	3/20/2005	0.68	244	2.5	0.50	0.51 B	5.0	<0.5	42.7
			Week 36	6/15/2005	0.79	284	2.2	0.21J	0.23	6.3	<1	38.1
CMW026	Zone C	A	Baseline	10/7/2003	0.55	215	1.7	0.0054 J	0.09	2.8	<1	34.2
			Week 6	11/19/2004	0.18 J	NS	NS	0.380	NS	0.066 J	NS	4.0
			Week 12	1/5/2005	<0.5	NS	NS	0.035	NS	0.20	NS	5.0
			Week 16	1/28/2005	0.14 J	NS	NS	0.57	NS	<0.1	NS	2.3
			Week 21	3/19/2005	<0.5	3.8	1.8	0.06	0.06	0.44	0.08 J	5.5
IRZCMW003		B	Baseline	10/7/2003	0.51	191	1.1	0.015	0.16	1.6	<1	49.8
			Week 12	1/5/2005	0.38 J	NS	NS	0.016	NS	2.1	NS	52.6
			Week 16	1/28/2005	0.38 J	NS	NS	0.024	NS	2.1	NS	52.3
			Week 21	3/19/2005	0.36 J	138	0.77	0.014 J	0.10	1.6	<0.5	50.7

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Table 2. Inorganic Analytical Results
Former Building 2 Area, Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	Bromide (mg/L)	Chloride (mg/l)	Total Iron (mg/L)	Dissolved Manganese (mg/L)	Total Manganese (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)
IRZCMW002	Zone C	C	Baseline	10/8/2003	0.37 J	150	0.23	0.10	0.04	2.5	<0.5	62.5
			Week 12	1/5/2005	0.37 J	NS	NS	0.0012 J	NS	3.2	NS	61.6
			Week 21	3/19/2005	0.38 J	144	0.20	0.67	0.75	<0.1	<0.5	56.9
			Week 36	6/15/2005	0.19B	152	1.2	2.4J	2.8	<0.1	<1.0	3.6
CMW001		C	Baseline	10/9/2003	0.32 J	127	2.8	0.12	0.16	<0.1	<1	115
			Week 12	1/5/2005	0.23 J	NS	NS	0.34	NS	<0.1	NS	156
			Week 21	3/18/2005	0.24 J	112	0.15	0.36	0.39	<0.1	<0.5	143
			Week 36	6/15/2005	0.22B	87.8	0.16	0.21J	0.23	<0.1	<0.1	99.0
CMW002		C	Baseline	10/8/2003	0.24 J	110	0.63	0.21	0.13	<0.1	<0.5	84.9
			Week 12	1/3/2005	0.23 J	NS	NS	0.15 B	NS	<0.1	NS	89.0
			Week 21	3/18/2005	0.25 J	110	0.29	0.13	0.16	<0.1	<0.5	85.7
			Week 36	6/15/2005	0.24B	110	0.18	0.13J	0.15	<0.1	<0.1	89.1
IRZCMW001		D	Baseline	10/8/2003	0.73	275	1.9	0.0055 J	0.04	2.7	<0.5	37.7
			Week 6	11/18/2004	0.67	NS	NS	0.0022 J	NS	2.2 J	NS	37.2
			Week 12	1/4/2005	0.69	NS	NS	0.0093 J	NS	2.1	NS	38.0
			Week 21	3/19/2005	0.68	273	0.093 J	0.02	0.02	2.0	<1	35.9
EPA Analytical Method					300.0A	300.0A	6010B	6010A	6010B	300.0A	300.0A	300.0A

Notes:
Group A: wells located within the estimated injection area
Group B: wells located at the estimated edge of the injection area
Group C: wells located downgradient of the treatment area
Group D: wells located upgradient of the treatment area
J - The analyte results were positively identified, and numerical values are an approximate concentration of the analyte in the sample.
QC - A quality control parameter associated with the analyte is not within laboratory or method required quality control limits.
<1.0 - Not detected above indicated reporting limit
NS - Not Sampled

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Table 3. Volatile Organic Compound Analytical Results
Former Building 2 Area, Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,2-TCA (µg/L)	1,1-DCE (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Acetone (µg/L)	Benzene (µg/L)	Chlorobenzene (µg/L)	Chloroform (µg/L)	Methyl Ethyl Ketone (µg/L)	Methylene Chloride (µg/L)
IRZB0081	Zone B	A	Baseline	10/9/2003	<170	6,500	<170	<170	<170	<170	63 J	<170	<170	<1,700	<170	<170	50 J	<830	<170
			Alt. Amend. Monitoring	12/14/2004	<120	5,300	89 J	<120	<120	<120	60 J	<120	<120	<1,200	<120	<120	<120	<620	<120
			Week 12	1/5/2005	<50	1,900	100	<50	<50	<50	17 J	<50	<50	240 J	<50	<50	<50	750	<50
			Alt. Amend. Monitoring	1/14/2005(a)	<50	3,000	150	<50	<50	<50	32 J	<50	<50	240 J	<50	<50	<50	790	<50
			Week 16	1/28/2005	<100	4,600	260	<100	<100	<100	34 J	<100	<100	320 J	<100	<100	<100	400 J	<100
			Alt. Amend. Monitoring	2/11/2005	<50	4,200	690	<50	<50	<50	39 J	<50	<50	390 J	<50	<50	19 J	260	17 J
			Week 21	3/20/2005	<50	2,300	2,600	<50	<50	<50	31 J	<50	<50	690	<50	<50	<50	1,600	<50
			Quarterly Monitoring	9/22/2005	<100	36 J	7,600	<100	<100	<100	33 J	<100	<100	<1,000	<100	<100	<100	<500	<100
			Quarterly Monitoring	12/20/2005	<12	<12	34	5.7 J	750	<12	<12	<12	<12	39 J	<12	<12	<12	<62	<12
IRZB0095		A	Baseline	10/7/2003	<120	5,800	<120	<120	<120	<120	49 J	<120	<120	<1,200	<120	<120	150	<620	150
			Week 6	11/19/2004	<100	3,900	<100	<100	<100	<100	64 J	<100	<100	<1,000	<100	<100	85 J	<500	<100
			Alt. Amend. Monitoring	12/14/2004	<83	4,300	<83	<83	<83	<83	68 J	<83	<83	<830	<83	<83	96	<420	<83
			Week 12	1/5/2005	9.0 J	1,000	9.0 J	<25	<25	<12	11 J	<25	<25	<250	<25	<25	16 J	110 J	9.4 J
			Alt. Amend. Monitoring	1/14/2005	6.7 J	620	340	<10	<10	<10	12	<10	<10	63 J	<10	<10	6.6 J	170	2 J
			Week 16	1/28/2005	5.7 J	450	930	<12	<12	<12	15	<12	<12	38 J	<12	<12	12	130	<12
			Alt. Amend. Monitoring	2/11/2005	<25	440	1,100	<25	<25	<12	20 J	<25	<25	95 J	<25	<25	13 J	160	<25
			Week 21	3/20/2005	<25	430	1,700	<25	<25	<25	25	<25	<25	<250	<25	<25	13 J	77 J	<25
			Quarterly Monitoring	9/22/2005	<5.0	23	30	2.5 J	120	<5.0	<5.0	<5.0	<5.0	69	<5.0	89	4.2 J	90	<5.0
			Quarterly Monitoring	12/20/2005	<10	210	77	5.6 J	790	<10	3.8 J	<10	<10	<100	<10	<10	51	<50	<10
IRZMW001A		A	Baseline	10/30/2003	<500	11,000	<500	<500	<500	<500	<500	<500	<500	<5,000	<500	<500	<500	<2,500	<500
			Week 6	11/18/2004	<120	7,200	43 J	<120	<120	<120	77 J	<120	<120	<1,200	<120	<120	<120	<620	<120
			Week 12	1/4/2005	<120	6,900	<120	<120	<120	<120	66 J	<120	<120	<1,200	<120	<120	<120	<620	<120
			Week 16	1/27/2005	<120	7,700	38 J	<120	<120	<120	58 J	<120	<120	<1,200	<120	<120	<120	<620	<120
			Week 21	3/19/2005	<250	9,800	2 J	<250	<250	<250	81 J	<250	<250	<2,500	<250	<250	<250	<1,200	<250
			Quarterly Monitoring	9/21/2005	<310	16,000	100 J	<310	<310	<310	100 J	<310	<310	<3,100	<310	<310	<310	<1600	<310
IRZMW001B		A	Baseline	10/30/2003	<120	4,800	54 J	<120	<120	<120	50 J	<120	<120	<1,200	<120	<120	<120	<620	<120
			Week 6	11/18/2004	<25	1,400	<25	<25	<25	<25	19 J	<25	<25	<250	<25	<25	<25	<120	<25
			Week 12	1/4/2005	<25	1,300	<25	<25	<25	<12	16 J	<25	<25	<250	<25	<25	<25	<120	<25
			Week 16	1/27/2005	<25	1,600	<25	<25	<25	<12	17 J	<25	<25	<250	<25	<25	<25	<120	<25
			Week 21	3/19/2005	<50	2,100	<50	<50	<50	<50	25 J	<50	<50	<500	<50	<50	<50	<250	<50
			Quarterly Monitoring	9/21/2005	<17	1,100	13 J	<17	<17	<17	16 J	<17	<17	<170	<17	<17	<17	<83	<17
			Quarterly Monitoring	12/19/2005	<12	1,100	290	<12	<12	<12	31	<12	<12	<120	<12	<12	<12	<62	<12
IRZMW002A		A	Baseline	10/30/2003	<120	5,100	660	<120	<120	<120	63 J	<120	<120	<1,200	<120	<120	<120	<620	<120
			Week 6	11/18/2004	<200	8,300	220	<200	<200	<200	79 J	<200	<200	<2,000	<200	<200	<200	<1,000	<200
			Week 12	1/4/2005	<100	7,100	460	<100	<100	<100	62 J	<100	<100	<1,000	<100	<100	<100	<500	<100
			Week 16	1/27/2005	<250	8,700	490	<250	<250	<250	<250	<250	<250	<2,500	<250	<250	<250	<1,200	<250
			Week 21	3/19/2005(b)	<250	9,600	1,300	<250	<250	<250	81 J	<250	<250	<2,500	<250	<250	<250	<1,200	<250
			Quarterly Monitoring	9/21/2005	<100	7,300	5,000	<100	<100	<100	95 J	<100	<100	<1,000	<100	<100	<100	<500	<100
			Quarterly Monitoring	12/19/2005	<62	5,600	2,600	<62	92	<62	63	<62	<62	<620	<62	<62	<62	<310	<62

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Table 3. Volatile Organic Compound Analytical Results
Former Building 2 Area, Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,2-TCA (µg/L)	1,1-DCE (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Acetone (µg/L)	Benzene (µg/L)	Chlorobenzene (µg/L)	Chloroform (µg/L)	Methyl Ethyl Ketone (µg/L)	Methylene Chloride (µg/L)
IRZMW002B	Zone B	A	Baseline	10/30/2003	<12	640	80	<12	<12	<12	8.5 J	<12	<12	73 JB	<12	<12	<12	<62	<12
			Week 6	11/18/2004	<5	230	13	<5	<5	<5	3.0 J	<5	<5	<50	<5	<5	<5	<25	<5
			Week 12	1/4/2005	<2.5	170	6	<2.5	<2.5	<2.5	1.7 J	<2.5	<2.5	8.8 J	<2.5	<2.5	<2.5	<12	<2.5
			Week 16	1/27/2005	<5	240	7	<5	<5	<5	<5	<5	NM	NM	<5	<5	<5	<25	<5
			Week 21	3/19/2005	<5	300	18	<5	<5	<5	3.5 J	<5	<5	<50	<5	2.2 J	<5	<25	<5
			Quarterly Monitoring	9/21/2005	<10	410	38	<10	<10	<10	5.1 J	<10	<10	<100	<10	<10	<10	<50	<10
			Quarterly Monitoring	12/20/2005	<8.3	550	89	<8.3	<8.3	<8.3	9.9	<8.3	<8.3	<83	<8.3	<8.3	<8.3	<42	<8.3
IRZMW005		A	Baseline	10/9/2003	<170	6,000	<170	<170	<170	<170	75 J	<170	<170	<1,700	<170	<170	56 J	<830	<170
			Week 6	11/19/2004	<120	6,500	61 J	<120	<120	<120	74 J	<120	<120	<1,200	<120	<120	51 J	<620	<120
			Alt. Amend. Monitoring	12/14/2004	<170	7,300	170	<170	<170	<170	84 J	<170	<170	<1,700	<170	<170	54 J	<830	<170
			Week 12	1/5/2005	<25	110	1,200	<25	<25	<12	12 J	<25	<25	<250	<25	<25	8.3 J	<120	<25
			Alt. Amend. Monitoring	1/14/2005	<100	740	5,200	<100	<100	<100	60 J	<100	<100	410 J	<100	<100	43 J	<500	<100
			Week 16	1/28/2005	<120	880	5,500	<120	<120	<120	52 J	<120	<120	<1,200	<120	<120	40 J	<620	<120
			Alt. Amend. Monitoring	2/11/2005	<100	540	5,800	<100	<100	<100	58 J	<100	<100	<1,000	<100	<100	35 J	<500	<100
			Week 21	3/20/2005	<120	170	7,100	<120	<120	<120	41 J	<120	<120	<1,200	<120	<120	<120	<620	<120
			Quarterly Monitoring	9/22/2005	<50	340	3,400	<50	<50	<50	28 J	<50	<50	<500	<50	<50	<50	<250	<50
			Quarterly Monitoring	12/21/2005	<50	30 J	2,700	<50	130	<50	19 J	<50	<50	<500	<50	<50	<50	<250	<50
IRZMW003A		B	Baseline	10/31/2003	<500	20,000	<500	<500	<500	<500	180 J	<500	<500	3,200 JB	<500	<500	<500	<2,500	<500
			Week 12	1/4/2005	<250	11,000	120 J	<250	<250	<250	97 J	<250	<250	<2,500	<250	<250	<250	<1,200	<250
			Week 16	1/27/2005	<250	14,000	220 J	<250	<250	<250	78 J	<250	<250	<2,500	<250	<250	<250	<1,200	<250
			Week 21	3/19/2005	<500	18,000	<500	<500	<500	<500	<500	<500	<500	<5,000	<500	<500	<500	<2,500	<500
			Quarterly Monitoring	9/21/2005	<420	24,000	<420	<420	<420	<420	<420	<420	<420	<4,200	<420	<420	<420	<2,100	<420
			Quarterly Monitoring	12/20/2005	<170	11,000	190	<170	<170	<170	63 J	<170	<170	<1,700	<170	<170	<170	<830	<170
IRZMW003B		B	Baseline	10/31/2003	<25	1,000	<25	<25	<25	<25	19 J	<25	<25	130 JB	<25	<25	<25	<120	<25
			Week 12	1/4/2005	<10	620	<10	<10	<10	<10	16	<10	<10	<100	<10	<10	<10	<50	<10
			Week 16	1/27/2005	<10	900	<10	<10	<10	<10	16	<10	<10	<100	<10	<10	<10	<50	<10
			Week 21	3/19/2005	<12	670	<12	<12	<12	<12	16	<12	<12	<120	<12	<12	<12	<62	<12
			Quarterly Monitoring	9/21/2005	<17	1,400	1,000	<17	<17	<17	51	<17	<17	<170	<17	<17	<17	<83	<17
			Quarterly Monitoring	12/20/2005	<25	690	1,700	<25	<25	<25	39	<25	<25	<250	<25	<25	<25	<120	<25
IRZMW004		C	Baseline	10/7/2003	<250	8,700	<250	<250	<250	<250	81 J	<250	<250	<2,500	<250	<250	110 J	<1,200	<250
			Alt. Amend. Monitoring	12/14/2004	<170	6,600	<170	<170	<170	<170	96 J	<170	<170	<1,700	<170	<170	120 J	<830	<170
			Week 12	1/5/2005	<100	5,600	<100	<100	<100	<100	71 J	<100	<100	<1,000	<100	<100	74 J	<500	<100
			Alt. Amend. Monitoring	1/14/2005	76 J	5,800	<120	<120	<120	<120	48 J	<120	<120	480 J	<120	<120	140	<620	<120
			Alt. Amend. Monitoring	2/11/2005	<100	6,200	<100	<100	<100	<100	82 J	<100	<100	<1,000	<100	<100	60 J	<500	<100
			Week 21	3/20/2005	<120	6,600	48 J	<120	<120	<120	73 J	<120	<120	<1,200	<120	<120	46 J	<620	<120
			Week 36	6/15/2005	<120	7,100	840	<120	<120	<120	110 J	<120	<120	<1,200	<120	<120	83 J	<620	<120
			Quarterly Monitoring	9/21/2005	<50	470	3,500	<50	240	<50	50	<50	<50	<500	<50	<50	<50	<250	<50
			Quarterly Monitoring	12/21/2005	<50	3,800	670	<50	52	<50	59	<50	<50	<500	<50	<50	49 J	<250	<50
CMW0026		A	Baseline	10/7/2003	<25	1,200	<25	<25	<25	<25	65	<25	<25	<250	<25	<25	21 J	<120	<25
			Week 6	11/19/2004	<5	35	280	2.6 J	<5.0	<5	41	1.5 J	<5	<50	<5	<5	<5	<25	<5
			Week 12	1/5/2005	<1	6.5	17	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	6.6 J	<1.0	<1.0	<1.0	<5	<1.0
			Week 16	1/28/2005	<2.5	30	160	1.2 J	<2.5	<2.5	16	0.71 J	11 J	11 J	<2.5	<2.5	<2.5	14	<2.5
			Week 21	3/19/2005	<1	3.8	40	0.47 J	<1	<1	11	<1	<1	19	<1	<1	<1	<5	<1
			Quarterly Monitoring	9/22/2005	<1	24	91	1.1	<1	<1	18	0.44 J	<1	<10	<1	<1	<1	<5	<1
			Quarterly Monitoring	12/21/2005	<1	4.8	29	<1	<1	<1	4.8	<1	<1	<10	<1	2.4	<1	<5	<1

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Table 3. Volatile Organic Compound Analytical Results
Former Building 2 Area, Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,2-TCA (µg/L)	1,1-DCE (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Acetone (µg/L)	Benzene (µg/L)	Chlorobenzene (µg/L)	Chloroform (µg/L)	Methyl Ethyl Ketone (µg/L)	Methylene Chloride (µg/L)
IRZCMW003	Zone C	B	Baseline	10/7/2003	<100	**2,900**	<100	<100	<100	<100	**83 J**	<100	<100	<1,000	<100	<100	**36 J**	<500	**89 J**
			Week 12	1/5/2005	<100	**4,300**	<100	<100	<100	<100	**46 J**	<100	<100	<1,000	<100	<100	<100	<500	<100
			Week 16	1/28/2005	<100	**5,000**	**44 J**	<100	<100	<100	**49 J**	<100	<100	<1,000	<100	<100	<100	<500	<100
			Week 21	3/19/2005	<120	**5,700**	**350**	<120	<120	<120	**69 J**	<120	<120	<1,200	<120	<120	<120	<620	<120
			Quarterly Monitoring	9/22/2005	<50	**3,900**	**1,700**	<50	<50	<50	**59**	<50	<50	<500	<50	<50	**16 J**	<250	<50
			Quarterly Monitoring	12/21/2005	<50	**4,400**	**1,100**	<50	<50	<50	**52**	<50	<50	<500	<50	<50	**16 J**	<250	<50
IRZCMW002		C	Baseline	10/8/2003	<100	**4,600**	<100	<100	<100	<100	**39 J**	<100	<100	<1,000	<100	<100	**36 J**	<500	<100
			Week 12	1/5/2005	<120	**5,200**	<120	<120	<120	<120	<120	<120	<120	<1,200	<120	<120	<120	<620	<120
			Week 21	3/19/2005	<120	**7,700**	<120	<120	<120	<120	**38 J**	<120	<120	<1,200	<120	<120	<120	<620	<120
			Week 36	6/15/2005	<50	**87**	**4,800**	**25 J**	<50	<50	**32 J**	<50	<50	<500	<50	<50	<50	<250	<50
			Quarterly Monitoring	9/22/2005	<100	**360**	<100	<100	<100	<100	<100	<100	<100	<1,000	**42 J**	**7,900**	<100	<500	<100
			Quarterly Monitoring	12/21/2005	<50	**43 J**	**3,100**	**18 J**	<50	<50	**18 J**	<50	<50	<500	<50	<50	<50	<250	<50
CMW0001		C	Baseline	10/9/2003	<120	<120	<120	<120	<120	<120	<120	<120	<120	<1,200	<120	**7,300**	**60 J**	<620	<120
			Week 12	1/5/2005	<250	<250	<250	<250	<250	<250	<250	<250	<250	<2,500	<250	**12,000**	<250	<1,200	<250
			Week 21	3/18/2005	<400	<400	<400	<400	<400	<400	<400	<400	<400	<4,000	<400	**15,000**	<400	<2,000	<400
			Week 36	6/15/2005	<120	<120	<120	<120	<120	<120	<120	<120	<120	<1,200	<120	**9,000**	<120	<620	<120
			Quarterly Monitoring	9/22/2005	<120	<120	<120	<120	<120	<120	<120	<120	<120	<1,200	<120	**11,000**	<120	<620	<120
			Quarterly Monitoring	12/21/2005	<120	<120	<120	<120	<120	<120	<120	<120	<120	<1,200	<120	**6,900**	<120	<620	<120
CMW0002		C	Baseline	10/8/2003	<100	**460**	<100	<100	<100	<100	<100	<100	<100	<1,000	<100	**3,600**	<100	<500	<100
			Week 12	1/3/2005	<120	**330**	<120	<120	<120	<120	<120	<120	<120	<1,200	<120	**4,900**	<120	<620	<120
			Week 21	3/18/2005	<100	**390**	<100	<100	<100	<100	<100	<100	<100	<1,000	**38 J**	**6,300**	<100	<500	<100
			Week 36	6/15/2005	<100	**430**	<100	<100	<100	<100	<100	<100	<100	<1,000	<100	**7,400**	<100	<500	<100
			Quarterly Monitoring	9/22/2005	<100	**100**	**5,800**	<100	<100	<100	**32 J**	<100	<100	<1,000	<100	<100	<100	<500	<100
			Quarterly Monitoring	12/21/2005	<100	**340**	<100	<100	<100	<100	<100	<100	<100	<1,000	**56 J**	**6,500**	<100	<500	<100
IRZCMW001		D	Baseline	10/8/2003	<62	**1,300**	**22 J**	<62	<62	<62	**350**	**13 J**	<62	**210 J**	<62	<62	**76**	<310	<62
			Week 6	11/18/2004	<12	**920**	**15**	**6.3 J**	<12	**4.7 J**	**200**	**8.6 J**	**6.4 J**	<120	<12	<12	**44**	<62	<12
			Week 12	1/4/2005	<25	**1,000**	**16 J**	<25	<25	<12	**250**	**8.4 J**	<25	<250	<25	<25	**41**	<120	<25
			Week 21	3/19/2005	<25	**1,600**	**24 J**	**12 J**	<25	**8.6 J**	**420**	**15 J**	**11 J**	<250	<25	<25	**55**	<120	<25
			Quarterly Monitoring	9/22/2005	<20	**1,500**	**39**	**8.3 J**	<20	<20	**510**	**16 J**	**10 J**	<200	<20	<20	**9.5 J**	<100	<20
			Quarterly Monitoring	12/21/2005	<10	**930**	**24**	**4.0 J**	<10	<10	**250**	**9.3 J**	**4.8 J**	<100	<10	<10	**3.1 J**	<50	<10
EPA Analytical Method					8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B

Notes:

Group A: wells located within the estimated injection area
Group B: wells located at the estimated edge of the injection area
Group C: wells located downgradient of the treatment area
Group D: wells located upgradient of the treatment area
µg/L - micrograms per liter
< - not detected above indicated reporting limit

PCE - tetrachloroethene
TCE - trichloroethene
DCE - dichloroethene
TCA - trichloroethane
DCA - dichloroethane
J - estimated result less than reporting limit

JB - acetone detected at 11 ug/L in trip blank
[a] 2-Hexanone was also detected at a concentration of 2,000 ug/L.
[b] Methyl tert-butyl ether was also detected at an estimated concentration of 3.9 ug/L.

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Table 4. Permanent Gas Analytical Results
Former Building 2 Area, Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	Dissolved Oxygen (mg/L)	Carbon Dioxide (mg/L)	Nitrogen (mg/L)	Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)
IRZB0081	Zone B	A	Baseline	10/9/2003	3.7	16.9	12.6	<0.2	0.06	0.11
			Week 12	1/5/2005	2.0	750	6.8	184	0.03	0.10
			Week 16	1/28/2005	<0.25	800	5.3	3.1	0.12	0.20
			Week 21	3/20/2005	0.34	790	5.7	5,300	0.03	0.17
IRZB0095		A	Baseline	10/7/2003	2.7	14.0	8.7	<0.2	0.05	0.08
			Week 6	11/19/2004	2.9	10.8	7.8	1.1	0.02	0.02
			Week 12	1/5/2005	0.30	253	6.0	3.9	0.05	0.25
			Week 16	1/28/2005	0.47	320	12	0.19	0.86	0.41
			Week 21	3/20/2005	2.7	160	23	3,100	0.01	0.34
IRZMW001A		A	Baseline	10/30/2003	1.2	27	10	2.9	0.07	0.05
			Week 6	11/18/2004	0.48	27	3.7	1.8	0.01	<0.01
			Week 12	1/4/2005	0.49	42	5.9	488	0.01	0.02
			Week 16	1/27/2005	2.0	55	16	2.6	0.03	0.09
			Week 21	3/19/2005	3.3	74	18	5,600	<0.005	<0.005
IRZMW001B		A	Baseline	10/30/2003	4.1	21	12	0.4	0.04	0.02
			Week 6	11/18/2004	3.3	15	7.9	<0.2	0.01	<0.01
			Week 12	1/4/2005	4.9	17	12	0.3	0.02	0.01
			Week 16	1/27/2005	NS	NS	NS	NS	NS	NS
			Week 21	3/19/2005	8.8	26	22	74	0.03	0.02
IRZMW002A		A	Baseline	10/30/2003	0.62	39	8.7	4.0	1.2	3.3
			Week 6	11/18/2004	0.53	103	2.5	5.2	0.02	0.12
			Week 12	1/4/2005	1.8	48	5.2	5.0	0.04	0.25
			Week 16	1/27/2005	5.1	53	17	0.02	0.08	0.07
			Week 21	3/19/2005	5.6	66	18	230	0.08	1.1
IRZMW002B		A	Baseline	10/30/2003	3.4	17	16	6.0	1.3	2.1
			Week 6	11/18/2004	1.6	14	4.7	1.3	0.02	0.02
			Week 12	1/4/2005	3.2	17	9.4	1.8	0.02	0.01
			Week 16	1/27/2005	4.5	20	16	0.01	0.04	0.18
			Week 21	3/19/2005	3.0	91	26	24	0.07	0.12
IRZMW005		A	Baseline	10/9/2003	5.0	16	14	<0.2	0.06	0.07
			Week 6	11/19/2004	0.24	208	3.6	234	<0.01	0.02
			Week 12	1/5/2005	2.8	362	15	3,998	0.03	0.32
			Week 16	1/28/2005	0.81	270	13	3.6	0.07	0.25
			Week 21	3/20/2005	2.3	380	14	10,000	<0.005	0.79
IRZMW003A		B	Baseline	10/31/2003	3.1	25	16	0.5	0.17	0.10
			Week 12	1/4/2005	3.6	156	16	913	0.01	0.08
			Week 16	1/27/2005	2.5	160	15	3.1	<0.005	0.09
			Week 21	3/19/2005	5.9	150	26	3,600	<0.005	0.04
IRZMW003B		B	Baseline	10/31/2003	3.7	18	12	0.7	0.09	0.08
			Week 12	1/4/2005	4.0	18	12	32	0.01	0.01
			Week 16	1/27/2005	7.0	20	22	0.01	<0.005	0.03
			Week 21	3/19/2005	6.6	21	24	92	0.02	0.02
IRZMW004		C	Baseline	10/7/2003	2.7	15	8.4	0.30	0.05	0.06
			Week 12	1/5/2005	3.1	17	10	2.2	0.02	0.01
			Week 21	3/20/2005	6.5	38	27	21	0.08	0.22
			Week 36	6/15/2005	2.9	42	20	67	0.05	0.12
CMW026	Zone C	A	Baseline	10/7/2003	2.5	6.7	15	0.90	0.52	0.04
			Week 6	11/19/2004	0.27	14	8.2	1,994	<0.01	0.21
			Week 12	1/5/2005	0.89	3.4	5.5	2,038	<0.005	0.11
			Week 16	1/28/2005	2.4	45	11	17	<0.005	0.42
			Week 21	3/19/2005	7.6	7.8	25	2,100	0.01	0.35
IRZCMW003		B	Baseline	10/7/2003	1.1	7.1	12	1.6	0.95	0.88
			Week 12	1/5/2005	0.93	12	15	4.3	0.02	0.05
			Week 16	1/28/2005	3.2	11	21	0.01	0.08	0.11
			Week 21	3/19/2005	5.8	13	33	22	0.04	0.17

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Table 4. Permanent Gas Analytical Results
Former Building 2 Area, Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	Dissolved Oxygen (mg/L)	Carbon Dioxide (mg/L)	Nitrogen (mg/L)	Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)
IRZCMW002	Zone C	C	Baseline	10/8/2003	0.94	7.2	15	0.6	0.43	1.2
			Week 12	1/5/2005	0.83	6.8	9.9	0.3	0.03	0.02
			Week 21	3/19/2005	1.9	5.5	26	4.9	0.08	0.51
			Week 36	6/15/2005	0.8	30	17	59	0.09	0.67
CMW001		C	Baseline	10/9/2003	1.7	9.1	13	4.8	1.5	2.3
			Week 12	1/5/2005	0.94	12	10	13	0.25	0.44
			Week 21	3/18/2005	3.1	15	22	22	0.42	0.35
			Week 36	6/15/2005	2.3	10	19	6.3	0.22	0.30
CMW002		C	Baseline	10/8/2003	2.5	11	16	0.90	0.14	1.04
			Week 12	1/3/2005	1.1	12	11	0.80	0.13	0.12
			Week 21	3/18/2005	5.9	15	31	14	0.24	0.08
			Week 36	6/15/2005	4.4	15	21	3.3	0.24	0.07
IRZCMW001		D	Baseline	10/8/2003	3.1	13	15	0.3	0.11	0.18
			Week 6	11/18/2004	0.98	13	7.1	503	<0.01	0.07
			Week 12	1/4/2005	0.72	17	11	6,810	<0.005	0.18
			Week 21	3/19/2005	3.3	19	16	11,000	<0.005	0.31
Analytical Method					RSK 175	RSK 175	RSK 175	RSK 175	RSK 175	RSK 175

Notes:
Group A: wells located within the estimated injection area
Group B: wells located at the estimated edge of the injection area
Group C: wells located downgradient of the treatment area
Group D: wells located upgradient of the treatment area

mg/L - milligrams per liter
µg/L - micrograms per liter
< - Not detected above indicated reporting limit
NS - Not Sampled

ARCADIS

Appendix A

Laboratory Reports and Chain of Custody Documents

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

January 20, 2006

STL LOT NUMBER: E5L220372A
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

Barry Molnaa
ARCADIS Geraghty & Miller, Inc
1400 N. Harbor Blvd.
Suite 700
Fullerton, CA 92835-4127

Dear Mr. Molnaa,

This report contains the analytical results for the 16 samples received under chain of custody by STL Los Angeles on December 22, 2005. These samples are associated with your Boeing former C6 facility Torrance, California project.

This report has been amended to reflect id change for the Trip Blank.

All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 325.

Sincerely,

Diane Suzuki
Project Manager

CC: Project File

Page 1 of 58 total pages in this report.

LOT NUMBER E5L220372

Nonconformance 05-15065

Affected Samples:
E5L220372 (7): IRZB0081_WG122005_01
E5L220372 (16): TRIP BLANK

Affected Methods:
8260B

Case Narrative:
One VOA vial from each sample above contain bubbles > 6mm in diameter. Analysis is performed on a VOA vial without headspace when available.

BOE-C6-0049854

E5L220372A

E5L220372

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

TL-4124 (0901)

Client: ARCADIS	Project Manager: Barry Molnaa	Date: 12/22/05	Chain of Custody Number: 215321
Address: 1400 N. Harbor, Ste. 700	Telephone Number (Area Code)/Fax Number: 714) 278-0092 / 714) 278-0051	Lab Number: E5L220372	Page 1 of 2
City: Fullerton; State: CA; Zip Code: 92832	Site Contact: Vincent Salazar; Lab Contact: Diane Suzuki		
Project Name and Location (State): Boeing C-6 Torrance, CA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: CA 674.01.01			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): 8260B (VOC)	Special Instructions/ Conditions of Receipt
RZMW001B_WG121905_01	12/19/05	15:15		X						X				X	
RZMW002A_WG121905_01	12/19/05	16:30		X						X				X	
RZMW002B_WG122005_01	12/20/05	8:20		X						X				X	
RZMW003A_WG122005_01	12/20/05	10:20		X						X				X	
RZMW003B_WG122005_01	12/20/05	11:20		X						X				X	
RZB009S_WG122005_01	12/20/05	15:10		X						X				X	
RZB008I_WG122005_01	12/20/05	16:20		X						X				X	
RZMW004_WG122105_01	12/21/05	9:50		X						X				X	
RZMW005_WG122105_01	12/21/05	10:55		X						X				X	
RZCMW001_WG122105_01	12/21/05	11:50		X						X				X	
RZCMW002_WG122105_01	12/21/05	13:00		X						X				X	
RZCMW003_WG122105_01	12/21/05	14:10		X						X				X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

1. Relinquished By	Date: 12-22-05	Time: 15:15	1. Received By	Date: 12-22-05	Time: 15:15
2. Relinquished By	Date: 12-22-05	Time: 16:00	2. Received By	Date: 12/22/05	Time: 1600
3. Relinquished By	Date:	Time:	3. Received By	Date:	Time:

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3

3

BOE-C6-0049855

E5L220372A

E5L220372

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

TL-4124 (0901)

Client: ARCADIS	Project Manager: Barry Molnag	Date: 12/22/05	Chain of Custody Number: 215322
Address: 1400 N. Harbor Blvd. Ste 700	Telephone Number (Area Code)/Fax Number: 714) 278-0992 / 714) 278-0051	Lab Number: ESL220372	Page 2 of 2
City: Fullerton; State: CA; Zip Code: 92832	Site Contact: Vincent Salazar	Lab Contact: Diane Suzuki	
Project Name and Location (State): Boeing C-6 Torrance, CA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: A674.01.01			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): 8260B (VOCs)	Special Instructions/ Conditions of Receipt
CMW0001_WG122105_01	12/21/05	15:00		X							X				X	
CMW0002_WG122105_01	12/21/05	16:00		X							X				X	
CMW0026_WG122105_01	12/21/05	16:45		X							X				X	
Trip Blank	12/15/05	—		X							X				X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	12-22-05	15:15	1. Received By	12-22-05	15:15
2. Relinquished By	12-22-05	16:00	2. Received By	12/22/05	1600
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

4

4

BOE-C6-0049856

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 12/22/05

Single Cooler Only

LIMS Lot #: E5L220372 Quote #: 48735

Client Name: Arcadis Project: Boeing C-6 Torrance, CA

Received by: CA Date/Time Received: 12/22/05 1600

Delivered by: ☐ Client ☒ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other

****

	Initial / Date
Custody Seal Status Cooler: ☐ Intact ☐ Broken ☒ None	CA 12/22/05
Custody Seal Status Samples: ☐ Intact ☐ Broken ☒ None	
Custody Seal #(s): ☒ No Seal #	
Sampler Signature on COC ☐ Yes ☐ No ☒ N/A	
IR Gun # A Correction Factor -.8 °C IR passed daily verification ☒ Yes ☐ No	
Temperature - BLANK 5.0 °C - .8 CF = 4.2 °C Cooler #1 ID N/A	
Temperature – COOLER (____°C ____°C ____°C ____°C) = ____ avg °C - .8 CF = ____ °C	
Samples outside temperature criteria but received within 6 hours of final sampling ☐ Yes ☒ N/A	
Sample Container(s): ☒ STL-LA ☐ Client	
pH measured: ☐ Yes ☐ Anomaly (if checked, notify lab and file NCM) ☒ N/A	
Anomalies: ☐ No ☒ Yes – complete CUR and Create NCM	
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☐ Yes ☒ No	
Labeled by: CA	

****

Turn Around Time: ☐ RUSH–24HR ☐ RUSH–48HR ☐ RUSH–72HR ☒ NORMAL CA 12/22/05

********** LEAVE NO BLANK SPACES ; USE N/A **********

Headspace Anomaly ☒ YES ☐ N/A CA 12/22/05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
001	1	☒ > 6mm			☐ > 6mm
D16	1	☒ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # ESL220372

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1-16													
VOAH	3													

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore
AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form

Anomalies ☒ YES ☐ N/A CA 12/22/05

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking
  - ☐ Other:
- **CUSTODY SEALS (COOLER(S)** / **CONTAINER(S)**
  - ☐ None / ☐ None
  - ☐ Not Intact / ☐ Not Intact
  - ☐ Other / ☐ Other
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - ☐ Cooler Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by Client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ Other ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☒ Voa Vials with Bubbles > 6mm
  - ☐ Broken
  - ☐ Extra
  - ☐ Without Labels
  - ☐ Other:
- **LABELS**
  - ☐ Not the same ID/info as in COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
  - ☐ Torn
- **SAMPLES**
  - ☐ Samples NOT RECEIVED but listed on COC
  - ☐ Samples received but NOT LISTED on COC
  - ☐ Logged based on Label Information
  - ☐ Logged based on info from other samples on COC
  - ☐ Logged according to Work Plan
  - ☐ Logged on HOLD UNTIL FURTHER NOTICE
  - ☐ Will be noted on COC--Client to send samples with new COC
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Improper container used
  - ☐ Not preserved/Improper preservative used
  - ☐ Improper pH _____ Lab to preserve sample and document
  - ☐ Insufficient quantities for analysis ☐ Other

Comments:

☐ Corrective Action Implemented:

☐ Client Informed: verbally on _____ By: _____ ☐ In writing on _____ By: _____

☐ Sample(s) on hold until: _____ ☐ Sample(s) processed "as is."

Logged by/Date: Logged in by other STL ☐ ____ 12-22-05

PM Review/Date: 12/23/05

BOE-C6-0049858

SEVERN TRENT STL

Analytical Report

BOE-C6-0049859

EXECUTIVE SUMMARY - Detection Highlights

E5L220372

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZMW001B_WG121905_01 12/19/05 15:15	**001**			
1,1-Dichloroethene	31	12	ug/L	SW846 8260B
cis-1,2-Dichloroethene	290	12	ug/L	SW846 8260B
Trichloroethene	1100	12	ug/L	SW846 8260B
IRZMW002A_WG121905_01 12/19/05 16:30	**002**			
1,1-Dichloroethene	63	62	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2600	62	ug/L	SW846 8260B
Trichloroethene	5600	62	ug/L	SW846 8260B
Vinyl chloride	92	62	ug/L	SW846 8260B
IRZMW002B_WG122005_01 12/20/05 08:20	**003**			
1,1-Dichloroethene	9.9	8.3	ug/L	SW846 8260B
cis-1,2-Dichloroethene	89	8.3	ug/L	SW846 8260B
Trichloroethene	550	8.3	ug/L	SW846 8260B
IRZMW003A_WG122005_01 12/20/05 10:20	**004**			
1,1-Dichloroethene	63 J	170	ug/L	SW846 8260B
cis-1,2-Dichloroethene	190	170	ug/L	SW846 8260B
Trichloroethene	11000	170	ug/L	SW846 8260B
IRZMW003B_WG122005_01 12/20/05 11:20	**005**			
1,1-Dichloroethene	39	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1700	25	ug/L	SW846 8260B
Trichloroethene	690	25	ug/L	SW846 8260B
IRZB0095_WG122005_01 12/20/05 15:10	**006**			
Chloroform	51	10	ug/L	SW846 8260B
1,1-Dichloroethene	3.8 J	10	ug/L	SW846 8260B
cis-1,2-Dichloroethene	77	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	5.6 J	10	ug/L	SW846 8260B
Trichloroethene	210	10	ug/L	SW846 8260B
Vinyl chloride	790	10	ug/L	SW846 8260B
IRZB0081_WG122005_01 12/20/05 16:20	**007**			
Acetone	39 J	120	ug/L	SW846 8260B
cis-1,2-Dichloroethene	34	12	ug/L	SW846 8260B
trans-1,2-Dichloroethene	5.7 J	12	ug/L	SW846 8260B

(Continued on next page)

BOE-C6-0049860

EXECUTIVE SUMMARY - Detection Highlights

E5L220372

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZB0081_WG122005_01 12/20/05 16:20	**007**			
Vinyl chloride	750	12	ug/L	SW846 8260B
IRZMW004_WG122105_01 12/21/05 09:50	**008**			
Chloroform	49 J	50	ug/L	SW846 8260B
1,1-Dichloroethene	59	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	670	50	ug/L	SW846 8260B
Trichloroethene	3800	50	ug/L	SW846 8260B
Vinyl chloride	52	50	ug/L	SW846 8260B
IRZMW005_WG122105_01 12/21/05 10:55	**009**			
1,1-Dichloroethene	19 J	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2700	50	ug/L	SW846 8260B
Trichloroethene	30 J	50	ug/L	SW846 8260B
Vinyl chloride	130	50	ug/L	SW846 8260B
IRZCMW001_WG122105_01 12/21/05 11:50	**010**			
Chloroform	3.1 J	10	ug/L	SW846 8260B
1,1-Dichloroethane	9.3 J	10	ug/L	SW846 8260B
1,2-Dichloroethane	4.8 J	10	ug/L	SW846 8260B
1,1-Dichloroethene	250	10	ug/L	SW846 8260B
cis-1,2-Dichloroethene	24	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	4.0 J	10	ug/L	SW846 8260B
Trichloroethene	930	10	ug/L	SW846 8260B
IRZCMW002_WG122105_01 12/21/05 13:00	**011**			
1,1-Dichloroethene	18 J	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	3100	50	ug/L	SW846 8260B
trans-1,2-Dichloroethene	18 J	50	ug/L	SW846 8260B
Trichloroethene	43 J	50	ug/L	SW846 8260B
IRZCMW003_WG122105_01 12/21/05 14:10	**012**			
Chloroform	16 J	50	ug/L	SW846 8260B
1,1-Dichloroethene	52	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1100	50	ug/L	SW846 8260B
Trichloroethene	4400	50	ug/L	SW846 8260B

(Continued on next page)

BOE-C6-0049861

EXECUTIVE SUMMARY - Detection Highlights

E5L220372

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CMW0001_WG122105_01 12/21/05 15:00 013				
Chlorobenzene	6900	120	ug/L	SW846 8260B
CMW0002_WG122105_01 12/21/05 16:00 014				
Benzene	56 J	100	ug/L	SW846 8260B
Chlorobenzene	6500	100	ug/L	SW846 8260B
Trichloroethene	340	100	ug/L	SW846 8260B
CMW0026_WG122105_01 12/21/05 16:45 015				
Chlorobenzene	2.4	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	4.8	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	29	1.0	ug/L	SW846 8260B
Trichloroethene	4.8	1.0	ug/L	SW846 8260B
TB_AR121505_01 12/15/05 016				
Chloroform	0.30 J	1.0	ug/L	SW846 8260B

BOE-C6-0049862

METHODS SUMMARY

E5L220372

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

BOE-C6-0049863

SAMPLE SUMMARY

E5L220372

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HTPJQ	001	IRZMW001B_WG121905_01	12/19/05	15:15
HTPJX	002	IRZMW002A_WG121905_01	12/19/05	16:30
HTPJ0	003	IRZMW002B_WG122005_01	12/20/05	08:20
HTPJ2	004	IRZMW003A_WG122005_01	12/20/05	10:20
HTPJ5	005	IRZMW003B_WG122005_01	12/20/05	11:20
HTPJ7	006	IRZB0095_WG122005_01	12/20/05	15:10
HTPKA	007	IRZB0081_WG122005_01	12/20/05	16:20
HTPKD	008	IRZMW004_WG122105_01	12/21/05	09:50
HTPKE	009	IRZMW005_WG122105_01	12/21/05	10:55
HTPKF	010	IRZCMW001_WG122105_01	12/21/05	11:50
HTPKG	011	IRZCMW002_WG122105_01	12/21/05	13:00
HTPKH	012	IRZCMW003_WG122105_01	12/21/05	14:10
HTPKJ	013	CMW0001_WG122105_01	12/21/05	15:00
HTPKK	014	CMW0002_WG122105_01	12/21/05	16:00
HTPKL	015	CMW0026_WG122105_01	12/21/05	16:45
HTPKN	016	TB_AR121505_01	12/15/05	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

BOE-C6-0049864

ARCADIS G&M, Inc.

Client Sample ID: IRZMW001B_WG121905_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-001 **Work Order #...:** HTPJQ1AA **Matrix.....:** WG
Date Sampled...: 12/19/05 15:15 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5362344
Prep Date.....: 12/27/05 **Analysis Date..:** 12/27/05
Prep Batch #...: 5362587 **Analysis Time..:** 19:40
Dilution Factor: 12.5
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	120	ug/L	25
Benzene	ND	12	ug/L	3.8
Bromobenzene	ND	12	ug/L	3.8
Bromochloromethane	ND	12	ug/L	5.0
Bromoform	ND	12	ug/L	5.0
Bromomethane	ND	25	ug/L	12
2-Butanone	ND	62	ug/L	31
n-Butylbenzene	ND	12	ug/L	3.8
sec-Butylbenzene	ND	12	ug/L	3.8
tert-Butylbenzene	ND	12	ug/L	2.5
Carbon disulfide	ND	12	ug/L	5.0
Carbon tetrachloride	ND	12	ug/L	3.8
Chlorobenzene	ND	12	ug/L	3.8
Dibromochloromethane	ND	12	ug/L	5.0
Bromodichloromethane	ND	12	ug/L	3.8
Chloroethane	ND	25	ug/L	5.0
Chloroform	ND	12	ug/L	3.8
Chloromethane	ND	25	ug/L	3.8
2-Chlorotoluene	ND	12	ug/L	3.8
4-Chlorotoluene	ND	12	ug/L	3.8
1,2-Dibromo-3-chloro-propane	ND	25	ug/L	12
1,2-Dibromoethane (EDB)	ND	12	ug/L	3.8
Dibromomethane	ND	12	ug/L	5.0
1,2-Dichlorobenzene	ND	12	ug/L	3.8
1,3-Dichlorobenzene	ND	12	ug/L	3.8
1,4-Dichlorobenzene	ND	12	ug/L	3.8
Dichlorodifluoromethane	ND	25	ug/L	5.0
1,1-Dichloroethane	ND	12	ug/L	2.5
1,2-Dichloroethane	ND	12	ug/L	5.0
1,1-Dichloroethene	**31**	**12**	**ug/L**	**3.8**
cis-1,2-Dichloroethene	**290**	**12**	**ug/L**	**3.8**
trans-1,2-Dichloroethene	ND	12	ug/L	3.8
1,2-Dichloropropane	ND	12	ug/L	3.8
1,3-Dichloropropane	ND	12	ug/L	5.0
2,2-Dichloropropane	ND	12	ug/L	5.0
1,1-Dichloropropene	ND	12	ug/L	3.8

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ARCADIS G&M, Inc.

Client Sample ID: IRZMW001B_WG121905_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-001 **Work Order #...:** HTPJQ1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	12	ug/L	3.8
trans-1,3-Dichloropropene	ND	12	ug/L	6.2
Ethylbenzene	ND	12	ug/L	3.8
Hexachlorobutadiene	ND	12	ug/L	3.8
2-Hexanone	ND	62	ug/L	25
Isopropylbenzene	ND	12	ug/L	3.8
p-Isopropyltoluene	ND	12	ug/L	3.8
Methylene chloride	ND	12	ug/L	3.8
4-Methyl-2-pentanone	ND	62	ug/L	25
Methyl tert-butyl ether	ND	12	ug/L	6.2
Naphthalene	ND	12	ug/L	6.2
n-Propylbenzene	ND	12	ug/L	5.0
Styrene	ND	12	ug/L	3.8
1,1,1,2-Tetrachloroethane	ND	12	ug/L	3.8
1,1,2,2-Tetrachloroethane	ND	12	ug/L	5.0
Tetrachloroethene	ND	12	ug/L	5.0
Toluene	ND	12	ug/L	3.8
1,2,3-Trichlorobenzene	ND	12	ug/L	5.0
1,2,4-Trichloro-benzene	ND	12	ug/L	3.8
1,1,1-Trichloroethane	ND	12	ug/L	2.5
1,1,2-Trichloroethane	ND	12	ug/L	3.8
Trichloroethene	**1100**	**12**	**ug/L**	**3.8**
Trichlorofluoromethane	ND	25	ug/L	3.8
1,2,3-Trichloropropane	ND	12	ug/L	5.0
1,1,2-Trichlorotrifluoro-ethane	ND	12	ug/L	5.0
1,2,4-Trimethylbenzene	ND	12	ug/L	3.8
1,3,5-Trimethylbenzene	ND	12	ug/L	2.5
Vinyl chloride	ND	12	ug/L	3.8
m-Xylene & p-Xylene	ND	12	ug/L	6.2
o-Xylene	ND	12	ug/L	2.5
Xylenes (total)	ND	12	ug/L	6.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	82	(65 - 135)
Toluene-d8	90	(80 - 130)

BOE-C6-0049866

ARCADIS G&M, Inc.

Client Sample ID: IRZMW002A_WG121905_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-002 **Work Order #...:** HTPJX1AA **Matrix.....:** WG
Date Sampled...: 12/19/05 16:30 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5362344
Prep Date.....: 12/27/05 **Analysis Date..:** 12/27/05
Prep Batch #...: 5362587 **Analysis Time..:** 20:03
Dilution Factor: 62.5
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	620	ug/L	120
Benzene	ND	62	ug/L	19
Bromobenzene	ND	62	ug/L	19
Bromochloromethane	ND	62	ug/L	25
Bromoform	ND	62	ug/L	25
Bromomethane	ND	120	ug/L	62
2-Butanone	ND	310	ug/L	160
n-Butylbenzene	ND	62	ug/L	19
sec-Butylbenzene	ND	62	ug/L	19
tert-Butylbenzene	ND	62	ug/L	12
Carbon disulfide	ND	62	ug/L	25
Carbon tetrachloride	ND	62	ug/L	19
Chlorobenzene	ND	62	ug/L	19
Dibromochloromethane	ND	62	ug/L	25
Bromodichloromethane	ND	62	ug/L	19
Chloroethane	ND	120	ug/L	25
Chloroform	ND	62	ug/L	19
Chloromethane	ND	120	ug/L	19
2-Chlorotoluene	ND	62	ug/L	19
4-Chlorotoluene	ND	62	ug/L	19
1,2-Dibromo-3-chloro-propane	ND	120	ug/L	62
1,2-Dibromoethane (EDB)	ND	62	ug/L	19
Dibromomethane	ND	62	ug/L	25
1,2-Dichlorobenzene	ND	62	ug/L	19
1,3-Dichlorobenzene	ND	62	ug/L	19
1,4-Dichlorobenzene	ND	62	ug/L	19
Dichlorodifluoromethane	ND	120	ug/L	25
1,1-Dichloroethane	ND	62	ug/L	12
1,2-Dichloroethane	ND	62	ug/L	25
1,1-Dichloroethene	**63**	**62**	**ug/L**	**19**
cis-1,2-Dichloroethene	**2600**	**62**	**ug/L**	**19**
trans-1,2-Dichloroethene	ND	62	ug/L	19
1,2-Dichloropropane	ND	62	ug/L	19
1,3-Dichloropropane	ND	62	ug/L	25
2,2-Dichloropropane	ND	62	ug/L	25
1,1-Dichloropropene	ND	62	ug/L	19

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BOE-C6-0049867

ARCADIS G&M, Inc.

Client Sample ID: IRZMW002A_WG121905_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-002 **Work Order #...:** HTPJX1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	62	ug/L	19
trans-1,3-Dichloropropene	ND	62	ug/L	31
Ethylbenzene	ND	62	ug/L	19
Hexachlorobutadiene	ND	62	ug/L	19
2-Hexanone	ND	310	ug/L	120
Isopropylbenzene	ND	62	ug/L	19
p-Isopropyltoluene	ND	62	ug/L	19
Methylene chloride	ND	62	ug/L	19
4-Methyl-2-pentanone	ND	310	ug/L	120
Methyl tert-butyl ether	ND	62	ug/L	31
Naphthalene	ND	62	ug/L	31
n-Propylbenzene	ND	62	ug/L	25
Styrene	ND	62	ug/L	19
1,1,1,2-Tetrachloroethane	ND	62	ug/L	19
1,1,2,2-Tetrachloroethane	ND	62	ug/L	25
Tetrachloroethene	ND	62	ug/L	25
Toluene	ND	62	ug/L	19
1,2,3-Trichlorobenzene	ND	62	ug/L	25
1,2,4-Trichloro-benzene	ND	62	ug/L	19
1,1,1-Trichloroethane	ND	62	ug/L	12
1,1,2-Trichloroethane	ND	62	ug/L	19
Trichloroethene	**5600**	**62**	**ug/L**	**19**
Trichlorofluoromethane	ND	120	ug/L	19
1,2,3-Trichloropropane	ND	62	ug/L	25
1,1,2-Trichlorotrifluoro-ethane	ND	62	ug/L	25
1,2,4-Trimethylbenzene	ND	62	ug/L	19
1,3,5-Trimethylbenzene	ND	62	ug/L	12
Vinyl chloride	**92**	**62**	**ug/L**	**19**
m-Xylene & p-Xylene	ND	62	ug/L	31
o-Xylene	ND	62	ug/L	12
Xylenes (total)	ND	62	ug/L	31

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	84	(65 - 135)
Toluene-d8	90	(80 - 130)

BOE-C6-0049868

ARCADIS G&M, Inc.

Client Sample ID: IRZMW002B_WG122005_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-003 **Work Order #...:** HTPJ01AA **Matrix.....:** WG
Date Sampled...: 12/20/05 08:20 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5362344
Prep Date.....: 12/28/05 **Analysis Date..:** 12/28/05
Prep Batch #...: 5362587 **Analysis Time..:** 04:25
Dilution Factor: 8.33
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	83	ug/L	17
Benzene	ND	8.3	ug/L	2.5
Bromobenzene	ND	8.3	ug/L	2.5
Bromochloromethane	ND	8.3	ug/L	3.3
Bromoform	ND	8.3	ug/L	3.3
Bromomethane	ND	17	ug/L	8.3
2-Butanone	ND	42	ug/L	21
n-Butylbenzene	ND	8.3	ug/L	2.5
sec-Butylbenzene	ND	8.3	ug/L	2.5
tert-Butylbenzene	ND	8.3	ug/L	1.7
Carbon disulfide	ND	8.3	ug/L	3.3
Carbon tetrachloride	ND	8.3	ug/L	2.5
Chlorobenzene	ND	8.3	ug/L	2.5
Dibromochloromethane	ND	8.3	ug/L	3.3
Bromodichloromethane	ND	8.3	ug/L	2.5
Chloroethane	ND	17	ug/L	3.3
Chloroform	ND	8.3	ug/L	2.5
Chloromethane	ND	17	ug/L	2.5
2-Chlorotoluene	ND	8.3	ug/L	2.5
4-Chlorotoluene	ND	8.3	ug/L	2.5
1,2-Dibromo-3-chloro-propane	ND	17	ug/L	8.3
1,2-Dibromoethane (EDB)	ND	8.3	ug/L	2.5
Dibromomethane	ND	8.3	ug/L	3.3
1,2-Dichlorobenzene	ND	8.3	ug/L	2.5
1,3-Dichlorobenzene	ND	8.3	ug/L	2.5
1,4-Dichlorobenzene	ND	8.3	ug/L	2.5
Dichlorodifluoromethane	ND	17	ug/L	3.3
1,1-Dichloroethane	ND	8.3	ug/L	1.7
1,2-Dichloroethane	ND	8.3	ug/L	3.3
1,1-Dichloroethene	**9.9**	**8.3**	**ug/L**	**2.5**
cis-1,2-Dichloroethene	**89**	**8.3**	**ug/L**	**2.5**
trans-1,2-Dichloroethene	ND	8.3	ug/L	2.5
1,2-Dichloropropane	ND	8.3	ug/L	2.5
1,3-Dichloropropane	ND	8.3	ug/L	3.3
2,2-Dichloropropane	ND	8.3	ug/L	3.3
1,1-Dichloropropene	ND	8.3	ug/L	2.5

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ARCADIS G&M, Inc.

Client Sample ID: IRZMW002B_WG122005_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-003 **Work Order #...:** HTPJ01AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	8.3	ug/L	2.5
trans-1,3-Dichloropropene	ND	8.3	ug/L	4.2
Ethylbenzene	ND	8.3	ug/L	2.5
Hexachlorobutadiene	ND	8.3	ug/L	2.5
2-Hexanone	ND	42	ug/L	17
Isopropylbenzene	ND	8.3	ug/L	2.5
p-Isopropyltoluene	ND	8.3	ug/L	2.5
Methylene chloride	ND	8.3	ug/L	2.5
4-Methyl-2-pentanone	ND	42	ug/L	17
Methyl tert-butyl ether	ND	8.3	ug/L	4.2
Naphthalene	ND	8.3	ug/L	4.2
n-Propylbenzene	ND	8.3	ug/L	3.3
Styrene	ND	8.3	ug/L	2.5
1,1,1,2-Tetrachloroethane	ND	8.3	ug/L	2.5
1,1,2,2-Tetrachloroethane	ND	8.3	ug/L	3.3
Tetrachloroethene	ND	8.3	ug/L	3.3
Toluene	ND	8.3	ug/L	2.5
1,2,3-Trichlorobenzene	ND	8.3	ug/L	3.3
1,2,4-Trichloro-benzene	ND	8.3	ug/L	2.5
1,1,1-Trichloroethane	ND	8.3	ug/L	1.7
1,1,2-Trichloroethane	ND	8.3	ug/L	2.5
Trichloroethene	**550**	**8.3**	**ug/L**	**2.5**
Trichlorofluoromethane	ND	17	ug/L	2.5
1,2,3-Trichloropropane	ND	8.3	ug/L	3.3
1,1,2-Trichlorotrifluoro-ethane	ND	8.3	ug/L	3.3
1,2,4-Trimethylbenzene	ND	8.3	ug/L	2.5
1,3,5-Trimethylbenzene	ND	8.3	ug/L	1.7
Vinyl chloride	ND	8.3	ug/L	2.5
m-Xylene & p-Xylene	ND	8.3	ug/L	4.2
o-Xylene	ND	8.3	ug/L	1.7
Xylenes (total)	ND	8.3	ug/L	4.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	89	(65 - 135)
Toluene-d8	90	(80 - 130)

BOE-C6-0049870

ARCADIS G&M, Inc.

Client Sample ID: IRZMW003A_WG122005_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-004 **Work Order #...:** HTPJ21AA **Matrix.....:** WG
Date Sampled...: 12/20/05 10:20 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5362344
Prep Date.....: 12/27/05 **Analysis Date..:** 12/27/05
Prep Batch #...: 5362587 **Analysis Time..:** 20:48
Dilution Factor: 166.7
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1700	ug/L	330
Benzene	ND	170	ug/L	50
Bromobenzene	ND	170	ug/L	50
Bromochloromethane	ND	170	ug/L	67
Bromoform	ND	170	ug/L	67
Bromomethane	ND	330	ug/L	170
2-Butanone	ND	830	ug/L	420
n-Butylbenzene	ND	170	ug/L	50
sec-Butylbenzene	ND	170	ug/L	50
tert-Butylbenzene	ND	170	ug/L	33
Carbon disulfide	ND	170	ug/L	67
Carbon tetrachloride	ND	170	ug/L	50
Chlorobenzene	ND	170	ug/L	50
Dibromochloromethane	ND	170	ug/L	67
Bromodichloromethane	ND	170	ug/L	50
Chloroethane	ND	330	ug/L	67
Chloroform	ND	170	ug/L	50
Chloromethane	ND	330	ug/L	50
2-Chlorotoluene	ND	170	ug/L	50
4-Chlorotoluene	ND	170	ug/L	50
1,2-Dibromo-3-chloro-propane	ND	330	ug/L	170
1,2-Dibromoethane (EDB)	ND	170	ug/L	50
Dibromomethane	ND	170	ug/L	67
1,2-Dichlorobenzene	ND	170	ug/L	50
1,3-Dichlorobenzene	ND	170	ug/L	50
1,4-Dichlorobenzene	ND	170	ug/L	50
Dichlorodifluoromethane	ND	330	ug/L	67
1,1-Dichloroethane	ND	170	ug/L	33
1,2-Dichloroethane	ND	170	ug/L	67
1,1-Dichloroethene	**63 J**	**170**	**ug/L**	**50**
cis-1,2-Dichloroethene	**190**	**170**	**ug/L**	**50**
trans-1,2-Dichloroethene	ND	170	ug/L	50
1,2-Dichloropropane	ND	170	ug/L	50
1,3-Dichloropropane	ND	170	ug/L	67
2,2-Dichloropropane	ND	170	ug/L	67
1,1-Dichloropropene	ND	170	ug/L	50

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ARCADIS G&M, Inc.

Client Sample ID: IRZMW003A_WG122005_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-004 **Work Order #...:** HTPJ21AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	170	ug/L	50
trans-1,3-Dichloropropene	ND	170	ug/L	83
Ethylbenzene	ND	170	ug/L	50
Hexachlorobutadiene	ND	170	ug/L	50
2-Hexanone	ND	830	ug/L	330
Isopropylbenzene	ND	170	ug/L	50
p-Isopropyltoluene	ND	170	ug/L	50
Methylene chloride	ND	170	ug/L	50
4-Methyl-2-pentanone	ND	830	ug/L	330
Methyl tert-butyl ether	ND	170	ug/L	83
Naphthalene	ND	170	ug/L	83
n-Propylbenzene	ND	170	ug/L	67
Styrene	ND	170	ug/L	50
1,1,1,2-Tetrachloroethane	ND	170	ug/L	50
1,1,2,2-Tetrachloroethane	ND	170	ug/L	67
Tetrachloroethene	ND	170	ug/L	67
Toluene	ND	170	ug/L	50
1,2,3-Trichlorobenzene	ND	170	ug/L	67
1,2,4-Trichloro-benzene	ND	170	ug/L	50
1,1,1-Trichloroethane	ND	170	ug/L	33
1,1,2-Trichloroethane	ND	170	ug/L	50
Trichloroethene	**11000**	**170**	**ug/L**	**50**
Trichlorofluoromethane	ND	330	ug/L	50
1,2,3-Trichloropropane	ND	170	ug/L	67
1,1,2-Trichlorotrifluoro-ethane	ND	170	ug/L	67
1,2,4-Trimethylbenzene	ND	170	ug/L	50
1,3,5-Trimethylbenzene	ND	170	ug/L	33
Vinyl chloride	ND	170	ug/L	50
m-Xylene & p-Xylene	ND	170	ug/L	83
o-Xylene	ND	170	ug/L	33
Xylenes (total)	ND	170	ug/L	83

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	87	(65 - 135)
Toluene-d8	89	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049872

ARCADIS G&M, Inc.

Client Sample ID: IRZMW003B_WG122005_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-005 **Work Order #...:** HTPJ51AA **Matrix.....:** WG
Date Sampled...: 12/20/05 11:20 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5362344
Prep Date.....: 12/28/05 **Analysis Date..:** 12/28/05
Prep Batch #...: 5362587 **Analysis Time..:** 04:48
Dilution Factor: 25
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	250	ug/L	50
Benzene	ND	25	ug/L	7.5
Bromobenzene	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	10
Bromoform	ND	25	ug/L	10
Bromomethane	ND	50	ug/L	25
2-Butanone	ND	120	ug/L	62
n-Butylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
Carbon disulfide	ND	25	ug/L	10
Carbon tetrachloride	ND	25	ug/L	7.5
Chlorobenzene	ND	25	ug/L	7.5
Dibromochloromethane	ND	25	ug/L	10
Bromodichloromethane	ND	25	ug/L	7.5
Chloroethane	ND	50	ug/L	10
Chloroform	ND	25	ug/L	7.5
Chloromethane	ND	50	ug/L	7.5
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	25
1,2-Dibromoethane (EDB)	ND	25	ug/L	7.5
Dibromomethane	ND	25	ug/L	10
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
Dichlorodifluoromethane	ND	50	ug/L	10
1,1-Dichloroethane	ND	25	ug/L	5.0
1,2-Dichloroethane	ND	25	ug/L	10
1,1-Dichloroethene	**39**	**25**	**ug/L**	**7.5**
cis-1,2-Dichloroethene	**1700**	**25**	**ug/L**	**7.5**
trans-1,2-Dichloroethene	ND	25	ug/L	7.5
1,2-Dichloropropane	ND	25	ug/L	7.5
1,3-Dichloropropane	ND	25	ug/L	10
2,2-Dichloropropane	ND	25	ug/L	10
1,1-Dichloropropene	ND	25	ug/L	7.5

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BOE-C6-0049873

ARCADIS G&M, Inc.

Client Sample ID: IRZMW003B_WG122005_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-005 **Work Order #...:** HTPJ51AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	25	ug/L	7.5
trans-1,3-Dichloropropene	ND	25	ug/L	12
Ethylbenzene	ND	25	ug/L	7.5
Hexachlorobutadiene	ND	25	ug/L	7.5
2-Hexanone	ND	120	ug/L	50
Isopropylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
Methylene chloride	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	50
Methyl tert-butyl ether	ND	25	ug/L	12
Naphthalene	ND	25	ug/L	12
n-Propylbenzene	ND	25	ug/L	10
Styrene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
Tetrachloroethene	ND	25	ug/L	10
Toluene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
1,1,2-Trichloroethane	ND	25	ug/L	7.5
Trichloroethene	**690**	**25**	**ug/L**	**7.5**
Trichlorofluoromethane	ND	50	ug/L	7.5
1,2,3-Trichloropropane	ND	25	ug/L	10
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
Vinyl chloride	ND	25	ug/L	7.5
m-Xylene & p-Xylene	ND	25	ug/L	12
o-Xylene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	12

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	88	(65 - 135)
Toluene-d8	88	(80 - 130)

BOE-C6-0049874

ARCADIS G&M, Inc.

Client Sample ID: IRZB0095_WG122005_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-006 **Work Order #...:** HTPJ71AA **Matrix.....:** WG
Date Sampled...: 12/20/05 15:10 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5364186
Prep Date.....: 12/29/05 **Analysis Date..:** 12/29/05
Prep Batch #...: 5364373 **Analysis Time..:** 21:55
Dilution Factor: 10
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	100	ug/L	20
Benzene	ND	10	ug/L	3.0
Bromobenzene	ND	10	ug/L	3.0
Bromochloromethane	ND	10	ug/L	4.0
Bromoform	ND	10	ug/L	4.0
Bromomethane	ND	20	ug/L	10
2-Butanone	ND	50	ug/L	25
n-Butylbenzene	ND	10	ug/L	3.0
sec-Butylbenzene	ND	10	ug/L	3.0
tert-Butylbenzene	ND	10	ug/L	2.0
Carbon disulfide	ND	10	ug/L	4.0
Carbon tetrachloride	ND	10	ug/L	3.0
Chlorobenzene	ND	10	ug/L	3.0
Dibromochloromethane	ND	10	ug/L	4.0
Bromodichloromethane	ND	10	ug/L	3.0
Chloroethane	ND	20	ug/L	4.0
Chloroform	**51**	**10**	**ug/L**	**3.0**
Chloromethane	ND	20	ug/L	3.0
2-Chlorotoluene	ND	10	ug/L	3.0
4-Chlorotoluene	ND	10	ug/L	3.0
1,2-Dibromo-3-chloro-propane	ND	20	ug/L	10
1,2-Dibromoethane (EDB)	ND	10	ug/L	3.0
Dibromomethane	ND	10	ug/L	4.0
1,2-Dichlorobenzene	ND	10	ug/L	3.0
1,3-Dichlorobenzene	ND	10	ug/L	3.0
1,4-Dichlorobenzene	ND	10	ug/L	3.0
Dichlorodifluoromethane	ND	20	ug/L	4.0
1,1-Dichloroethane	ND	10	ug/L	2.0
1,2-Dichloroethane	ND	10	ug/L	4.0
1,1-Dichloroethene	**3.8 J**	**10**	**ug/L**	**3.0**
cis-1,2-Dichloroethene	**77**	**10**	**ug/L**	**3.0**
trans-1,2-Dichloroethene	**5.6 J**	**10**	**ug/L**	**3.0**
1,2-Dichloropropane	ND	10	ug/L	3.0
1,3-Dichloropropane	ND	10	ug/L	4.0
2,2-Dichloropropane	ND	10	ug/L	4.0
1,1-Dichloropropene	ND	10	ug/L	3.0

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ARCADIS G&M, Inc.

Client Sample ID: IRZB0095_WG122005_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-006 **Work Order #...:** HTPJ71AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	10	ug/L	3.0
trans-1,3-Dichloropropene	ND	10	ug/L	5.0
Ethylbenzene	ND	10	ug/L	3.0
Hexachlorobutadiene	ND	10	ug/L	3.0
2-Hexanone	ND	50	ug/L	20
Isopropylbenzene	ND	10	ug/L	3.0
p-Isopropyltoluene	ND	10	ug/L	3.0
Methylene chloride	ND	10	ug/L	3.0
4-Methyl-2-pentanone	ND	50	ug/L	20
Methyl tert-butyl ether	ND	10	ug/L	5.0
Naphthalene	ND	10	ug/L	5.0
n-Propylbenzene	ND	10	ug/L	4.0
Styrene	ND	10	ug/L	3.0
1,1,1,2-Tetrachloroethane	ND	10	ug/L	3.0
1,1,2,2-Tetrachloroethane	ND	10	ug/L	4.0
Tetrachloroethene	ND	10	ug/L	4.0
Toluene	ND	10	ug/L	3.0
1,2,3-Trichlorobenzene	ND	10	ug/L	4.0
1,2,4-Trichloro-benzene	ND	10	ug/L	3.0
1,1,1-Trichloroethane	ND	10	ug/L	2.0
1,1,2-Trichloroethane	ND	10	ug/L	3.0
Trichloroethene	**210**	**10**	**ug/L**	**3.0**
Trichlorofluoromethane	ND	20	ug/L	3.0
1,2,3-Trichloropropane	ND	10	ug/L	4.0
1,1,2-Trichlorotrifluoro-ethane	ND	10	ug/L	4.0
1,2,4-Trimethylbenzene	ND	10	ug/L	3.0
1,3,5-Trimethylbenzene	ND	10	ug/L	2.0
Vinyl chloride	**790**	**10**	**ug/L**	**3.0**
m-Xylene & p-Xylene	ND	10	ug/L	5.0
o-Xylene	ND	10	ug/L	2.0
Xylenes (total)	ND	10	ug/L	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS G&M, Inc.

Client Sample ID: IRZB0081_WG122005_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-007 **Work Order #...:** HTPKA1AA **Matrix.....:** WG
Date Sampled...: 12/20/05 16:20 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5362344
Prep Date.....: 12/28/05 **Analysis Date..:** 12/28/05
Prep Batch #...: 5362587 **Analysis Time..:** 05:11
Dilution Factor: 12.5
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**39 J**	**120**	**ug/L**	**25**
Benzene	ND	12	ug/L	3.8
Bromobenzene	ND	12	ug/L	3.8
Bromochloromethane	ND	12	ug/L	5.0
Bromoform	ND	12	ug/L	5.0
Bromomethane	ND	25	ug/L	12
2-Butanone	ND	62	ug/L	31
n-Butylbenzene	ND	12	ug/L	3.8
sec-Butylbenzene	ND	12	ug/L	3.8
tert-Butylbenzene	ND	12	ug/L	2.5
Carbon disulfide	ND	12	ug/L	5.0
Carbon tetrachloride	ND	12	ug/L	3.8
Chlorobenzene	ND	12	ug/L	3.8
Dibromochloromethane	ND	12	ug/L	5.0
Bromodichloromethane	ND	12	ug/L	3.8
Chloroethane	ND	25	ug/L	5.0
Chloroform	ND	12	ug/L	3.8
Chloromethane	ND	25	ug/L	3.8
2-Chlorotoluene	ND	12	ug/L	3.8
4-Chlorotoluene	ND	12	ug/L	3.8
1,2-Dibromo-3-chloro-propane	ND	25	ug/L	12
1,2-Dibromoethane (EDB)	ND	12	ug/L	3.8
Dibromomethane	ND	12	ug/L	5.0
1,2-Dichlorobenzene	ND	12	ug/L	3.8
1,3-Dichlorobenzene	ND	12	ug/L	3.8
1,4-Dichlorobenzene	ND	12	ug/L	3.8
Dichlorodifluoromethane	ND	25	ug/L	5.0
1,1-Dichloroethane	ND	12	ug/L	2.5
1,2-Dichloroethane	ND	12	ug/L	5.0
1,1-Dichloroethene	ND	12	ug/L	3.8
cis-1,2-Dichloroethene	**34**	**12**	**ug/L**	**3.8**
trans-1,2-Dichloroethene	**5.7 J**	**12**	**ug/L**	**3.8**
1,2-Dichloropropane	ND	12	ug/L	3.8
1,3-Dichloropropane	ND	12	ug/L	5.0
2,2-Dichloropropane	ND	12	ug/L	5.0
1,1-Dichloropropene	ND	12	ug/L	3.8

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BOE-C6-0049877

ARCADIS G&M, Inc.

Client Sample ID: IRZB0081_WG122005_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-007 **Work Order #...:** HTPKA1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	12	ug/L	3.8
trans-1,3-Dichloropropene	ND	12	ug/L	6.2
Ethylbenzene	ND	12	ug/L	3.8
Hexachlorobutadiene	ND	12	ug/L	3.8
2-Hexanone	ND	62	ug/L	25
Isopropylbenzene	ND	12	ug/L	3.8
p-Isopropyltoluene	ND	12	ug/L	3.8
Methylene chloride	ND	12	ug/L	3.8
4-Methyl-2-pentanone	ND	62	ug/L	25
Methyl tert-butyl ether	ND	12	ug/L	6.2
Naphthalene	ND	12	ug/L	6.2
n-Propylbenzene	ND	12	ug/L	5.0
Styrene	ND	12	ug/L	3.8
1,1,1,2-Tetrachloroethane	ND	12	ug/L	3.8
1,1,2,2-Tetrachloroethane	ND	12	ug/L	5.0
Tetrachloroethene	ND	12	ug/L	5.0
Toluene	ND	12	ug/L	3.8
1,2,3-Trichlorobenzene	ND	12	ug/L	5.0
1,2,4-Trichloro-benzene	ND	12	ug/L	3.8
1,1,1-Trichloroethane	ND	12	ug/L	2.5
1,1,2-Trichloroethane	ND	12	ug/L	3.8
Trichloroethene	ND	12	ug/L	3.8
Trichlorofluoromethane	ND	25	ug/L	3.8
1,2,3-Trichloropropane	ND	12	ug/L	5.0
1,1,2-Trichlorotrifluoro-ethane	ND	12	ug/L	5.0
1,2,4-Trimethylbenzene	ND	12	ug/L	3.8
1,3,5-Trimethylbenzene	ND	12	ug/L	2.5
Vinyl chloride	**750**	**12**	**ug/L**	**3.8**
m-Xylene & p-Xylene	ND	12	ug/L	6.2
o-Xylene	ND	12	ug/L	2.5
Xylenes (total)	ND	12	ug/L	6.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	91	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS G&M, Inc.

Client Sample ID: IRZMW004_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-008 **Work Order #...:** HTPKD1AA **Matrix.....:** WG
Date Sampled...: 12/21/05 09:50 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5362344
Prep Date.....: 12/27/05 **Analysis Date..:** 12/27/05
Prep Batch #...: 5362587 **Analysis Time..:** 21:57
Dilution Factor: 50
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	500	ug/L	100
Benzene	ND	50	ug/L	15
Bromobenzene	ND	50	ug/L	15
Bromochloromethane	ND	50	ug/L	20
Bromoform	ND	50	ug/L	20
Bromomethane	ND	100	ug/L	50
2-Butanone	ND	250	ug/L	120
n-Butylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
Carbon disulfide	ND	50	ug/L	20
Carbon tetrachloride	ND	50	ug/L	15
Chlorobenzene	ND	50	ug/L	15
Dibromochloromethane	ND	50	ug/L	20
Bromodichloromethane	ND	50	ug/L	15
Chloroethane	ND	100	ug/L	20
Chloroform	**49 J**	**50**	**ug/L**	**15**
Chloromethane	ND	100	ug/L	15
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	50
1,2-Dibromoethane (EDB)	ND	50	ug/L	15
Dibromomethane	ND	50	ug/L	20
1,2-Dichlorobenzene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
Dichlorodifluoromethane	ND	100	ug/L	20
1,1-Dichloroethane	ND	50	ug/L	10
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**59**	**50**	**ug/L**	**15**
cis-1,2-Dichloroethene	**670**	**50**	**ug/L**	**15**
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,2-Dichloropropane	ND	50	ug/L	15
1,3-Dichloropropane	ND	50	ug/L	20
2,2-Dichloropropane	ND	50	ug/L	20
1,1-Dichloropropene	ND	50	ug/L	15

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BOE-C6-0049879

ARCADIS G&M, Inc.

Client Sample ID: IRZMW004_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-008 **Work Order #...:** HTPKD1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	50	ug/L	15
trans-1,3-Dichloropropene	ND	50	ug/L	25
Ethylbenzene	ND	50	ug/L	15
Hexachlorobutadiene	ND	50	ug/L	15
2-Hexanone	ND	250	ug/L	100
Isopropylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
Methylene chloride	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	100
Methyl tert-butyl ether	ND	50	ug/L	25
Naphthalene	ND	50	ug/L	25
n-Propylbenzene	ND	50	ug/L	20
Styrene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
Tetrachloroethene	ND	50	ug/L	20
Toluene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
1,2,4-Trichloro-benzene	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
1,1,2-Trichloroethane	ND	50	ug/L	15
Trichloroethene	**3800**	**50**	**ug/L**	**15**
Trichlorofluoromethane	ND	100	ug/L	15
1,2,3-Trichloropropane	ND	50	ug/L	20
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
1,2,4-Trimethylbenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
Vinyl chloride	**52**	**50**	**ug/L**	**15**
m-Xylene & p-Xylene	ND	50	ug/L	25
o-Xylene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	25

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	89	(65 - 135)
Toluene-d8	91	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049880

ARCADIS G&M, Inc.

Client Sample ID: IRZMW005_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-009 **Work Order #...:** HTPKE1AA **Matrix.....:** WG
Date Sampled...: 12/21/05 10:55 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5362344
Prep Date.....: 12/27/05 **Analysis Date..:** 12/27/05
Prep Batch #...: 5362587 **Analysis Time..:** 22:19
Dilution Factor: 50
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	500	ug/L	100
Benzene	ND	50	ug/L	15
Bromobenzene	ND	50	ug/L	15
Bromochloromethane	ND	50	ug/L	20
Bromoform	ND	50	ug/L	20
Bromomethane	ND	100	ug/L	50
2-Butanone	ND	250	ug/L	120
n-Butylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
Carbon disulfide	ND	50	ug/L	20
Carbon tetrachloride	ND	50	ug/L	15
Chlorobenzene	ND	50	ug/L	15
Dibromochloromethane	ND	50	ug/L	20
Bromodichloromethane	ND	50	ug/L	15
Chloroethane	ND	100	ug/L	20
Chloroform	ND	50	ug/L	15
Chloromethane	ND	100	ug/L	15
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	50
1,2-Dibromoethane (EDB)	ND	50	ug/L	15
Dibromomethane	ND	50	ug/L	20
1,2-Dichlorobenzene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
Dichlorodifluoromethane	ND	100	ug/L	20
1,1-Dichloroethane	ND	50	ug/L	10
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**19 J**	**50**	**ug/L**	**15**
cis-1,2-Dichloroethene	**2700**	**50**	**ug/L**	**15**
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,2-Dichloropropane	ND	50	ug/L	15
1,3-Dichloropropane	ND	50	ug/L	20
2,2-Dichloropropane	ND	50	ug/L	20
1,1-Dichloropropene	ND	50	ug/L	15

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BOE-C6-0049881

ARCADIS G&M, Inc.

Client Sample ID: IRZMW005_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-009 **Work Order #...:** HTPKE1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	50	ug/L	15
trans-1,3-Dichloropropene	ND	50	ug/L	25
Ethylbenzene	ND	50	ug/L	15
Hexachlorobutadiene	ND	50	ug/L	15
2-Hexanone	ND	250	ug/L	100
Isopropylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
Methylene chloride	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	100
Methyl tert-butyl ether	ND	50	ug/L	25
Naphthalene	ND	50	ug/L	25
n-Propylbenzene	ND	50	ug/L	20
Styrene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
Tetrachloroethene	ND	50	ug/L	20
Toluene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
1,2,4-Trichloro-benzene	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
1,1,2-Trichloroethane	ND	50	ug/L	15
Trichloroethene	**30 J**	**50**	**ug/L**	**15**
Trichlorofluoromethane	ND	100	ug/L	15
1,2,3-Trichloropropane	ND	50	ug/L	20
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
1,2,4-Trimethylbenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
Vinyl chloride	**130**	**50**	**ug/L**	**15**
m-Xylene & p-Xylene	ND	50	ug/L	25
o-Xylene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	25

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(75 - 130)
1,2-Dichloroethane-d4	91	(65 - 135)
Toluene-d8	89	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049882

ARCADIS G&M, Inc.

Client Sample ID: IRZCMW001_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-010 **Work Order #...:** HTPKF1AA **Matrix.....:** WG
Date Sampled...: 12/21/05 11:50 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5364186
Prep Date.....: 12/29/05 **Analysis Date..:** 12/29/05
Prep Batch #...: 5364373 **Analysis Time..:** 22:18
Dilution Factor: 10
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	100	ug/L	20
Benzene	ND	10	ug/L	3.0
Bromobenzene	ND	10	ug/L	3.0
Bromochloromethane	ND	10	ug/L	4.0
Bromoform	ND	10	ug/L	4.0
Bromomethane	ND	20	ug/L	10
2-Butanone	ND	50	ug/L	25
n-Butylbenzene	ND	10	ug/L	3.0
sec-Butylbenzene	ND	10	ug/L	3.0
tert-Butylbenzene	ND	10	ug/L	2.0
Carbon disulfide	ND	10	ug/L	4.0
Carbon tetrachloride	ND	10	ug/L	3.0
Chlorobenzene	ND	10	ug/L	3.0
Dibromochloromethane	ND	10	ug/L	4.0
Bromodichloromethane	ND	10	ug/L	3.0
Chloroethane	ND	20	ug/L	4.0
Chloroform	**3.1 J**	**10**	**ug/L**	**3.0**
Chloromethane	ND	20	ug/L	3.0
2-Chlorotoluene	ND	10	ug/L	3.0
4-Chlorotoluene	ND	10	ug/L	3.0
1,2-Dibromo-3-chloro-propane	ND	20	ug/L	10
1,2-Dibromoethane (EDB)	ND	10	ug/L	3.0
Dibromomethane	ND	10	ug/L	4.0
1,2-Dichlorobenzene	ND	10	ug/L	3.0
1,3-Dichlorobenzene	ND	10	ug/L	3.0
1,4-Dichlorobenzene	ND	10	ug/L	3.0
Dichlorodifluoromethane	ND	20	ug/L	4.0
1,1-Dichloroethane	**9.3 J**	**10**	**ug/L**	**2.0**
1,2-Dichloroethane	**4.8 J**	**10**	**ug/L**	**4.0**
1,1-Dichloroethene	**250**	**10**	**ug/L**	**3.0**
cis-1,2-Dichloroethene	**24**	**10**	**ug/L**	**3.0**
trans-1,2-Dichloroethene	**4.0 J**	**10**	**ug/L**	**3.0**
1,2-Dichloropropane	ND	10	ug/L	3.0
1,3-Dichloropropane	ND	10	ug/L	4.0
2,2-Dichloropropane	ND	10	ug/L	4.0
1,1-Dichloropropene	ND	10	ug/L	3.0

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BOE-C6-0049883

ARCADIS G&M, Inc.

Client Sample ID: IRZCMW001_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-010 **Work Order #...:** HTPKF1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	10	ug/L	3.0
trans-1,3-Dichloropropene	ND	10	ug/L	5.0
Ethylbenzene	ND	10	ug/L	3.0
Hexachlorobutadiene	ND	10	ug/L	3.0
2-Hexanone	ND	50	ug/L	20
Isopropylbenzene	ND	10	ug/L	3.0
p-Isopropyltoluene	ND	10	ug/L	3.0
Methylene chloride	ND	10	ug/L	3.0
4-Methyl-2-pentanone	ND	50	ug/L	20
Methyl tert-butyl ether	ND	10	ug/L	5.0
Naphthalene	ND	10	ug/L	5.0
n-Propylbenzene	ND	10	ug/L	4.0
Styrene	ND	10	ug/L	3.0
1,1,1,2-Tetrachloroethane	ND	10	ug/L	3.0
1,1,2,2-Tetrachloroethane	ND	10	ug/L	4.0
Tetrachloroethene	ND	10	ug/L	4.0
Toluene	ND	10	ug/L	3.0
1,2,3-Trichlorobenzene	ND	10	ug/L	4.0
1,2,4-Trichloro-benzene	ND	10	ug/L	3.0
1,1,1-Trichloroethane	ND	10	ug/L	2.0
1,1,2-Trichloroethane	ND	10	ug/L	3.0
Trichloroethene	**930**	**10**	**ug/L**	**3.0**
Trichlorofluoromethane	ND	20	ug/L	3.0
1,2,3-Trichloropropane	ND	10	ug/L	4.0
1,1,2-Trichlorotrifluoro-ethane	ND	10	ug/L	4.0
1,2,4-Trimethylbenzene	ND	10	ug/L	3.0
1,3,5-Trimethylbenzene	ND	10	ug/L	2.0
Vinyl chloride	ND	10	ug/L	3.0
m-Xylene & p-Xylene	ND	10	ug/L	5.0
o-Xylene	ND	10	ug/L	2.0
Xylenes (total)	ND	10	ug/L	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
1,2-Dichloroethane-d4	93	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049884

ARCADIS G&M, Inc.

Client Sample ID: IRZCMW002_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-011 **Work Order #...:** HTPKG1AA **Matrix.....:** WG
Date Sampled...: 12/21/05 13:00 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5364186
Prep Date.....: 12/29/05 **Analysis Date..:** 12/29/05
Prep Batch #...: 5364373 **Analysis Time..:** 20:23
Dilution Factor: 50
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	500	ug/L	100
Benzene	ND	50	ug/L	15
Bromobenzene	ND	50	ug/L	15
Bromochloromethane	ND	50	ug/L	20
Bromoform	ND	50	ug/L	20
Bromomethane	ND	100	ug/L	50
2-Butanone	ND	250	ug/L	120
n-Butylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
Carbon disulfide	ND	50	ug/L	20
Carbon tetrachloride	ND	50	ug/L	15
Chlorobenzene	ND	50	ug/L	15
Dibromochloromethane	ND	50	ug/L	20
Bromodichloromethane	ND	50	ug/L	15
Chloroethane	ND	100	ug/L	20
Chloroform	ND	50	ug/L	15
Chloromethane	ND	100	ug/L	15
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	50
1,2-Dibromoethane (EDB)	ND	50	ug/L	15
Dibromomethane	ND	50	ug/L	20
1,2-Dichlorobenzene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
Dichlorodifluoromethane	ND	100	ug/L	20
1,1-Dichloroethane	ND	50	ug/L	10
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**18 J**	**50**	**ug/L**	**15**
cis-1,2-Dichloroethene	**3100**	**50**	**ug/L**	**15**
trans-1,2-Dichloroethene	**18 J**	**50**	**ug/L**	**15**
1,2-Dichloropropane	ND	50	ug/L	15
1,3-Dichloropropane	ND	50	ug/L	20
2,2-Dichloropropane	ND	50	ug/L	20
1,1-Dichloropropene	ND	50	ug/L	15

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ARCADIS G&M, Inc.

Client Sample ID: IRZCMW002_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-011 **Work Order #...:** HTPKG1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	50	ug/L	15
trans-1,3-Dichloropropene	ND	50	ug/L	25
Ethylbenzene	ND	50	ug/L	15
Hexachlorobutadiene	ND	50	ug/L	15
2-Hexanone	ND	250	ug/L	100
Isopropylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
Methylene chloride	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	100
Methyl tert-butyl ether	ND	50	ug/L	25
Naphthalene	ND	50	ug/L	25
n-Propylbenzene	ND	50	ug/L	20
Styrene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
Tetrachloroethene	ND	50	ug/L	20
Toluene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
1,2,4-Trichloro-benzene	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
1,1,2-Trichloroethane	ND	50	ug/L	15
Trichloroethene	**43 J**	**50**	**ug/L**	**15**
Trichlorofluoromethane	ND	100	ug/L	15
1,2,3-Trichloropropane	ND	50	ug/L	20
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
1,2,4-Trimethylbenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
Vinyl chloride	ND	50	ug/L	15
m-Xylene & p-Xylene	ND	50	ug/L	25
o-Xylene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	25

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(75 - 130)
1,2-Dichloroethane-d4	89	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049886

ARCADIS G&M, Inc.

Client Sample ID: IRZCMW003_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-012 **Work Order #...:** HTPKH1AA **Matrix.....:** WG
Date Sampled...: 12/21/05 14:10 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5364186
Prep Date.....: 12/29/05 **Analysis Date..:** 12/29/05
Prep Batch #...: 5364373 **Analysis Time..:** 22:41
Dilution Factor: 50
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	500	ug/L	100
Benzene	ND	50	ug/L	15
Bromobenzene	ND	50	ug/L	15
Bromochloromethane	ND	50	ug/L	20
Bromoform	ND	50	ug/L	20
Bromomethane	ND	100	ug/L	50
2-Butanone	ND	250	ug/L	120
n-Butylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
Carbon disulfide	ND	50	ug/L	20
Carbon tetrachloride	ND	50	ug/L	15
Chlorobenzene	ND	50	ug/L	15
Dibromochloromethane	ND	50	ug/L	20
Bromodichloromethane	ND	50	ug/L	15
Chloroethane	ND	100	ug/L	20
Chloroform	**16 J**	**50**	**ug/L**	**15**
Chloromethane	ND	100	ug/L	15
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	50
1,2-Dibromoethane (EDB)	ND	50	ug/L	15
Dibromomethane	ND	50	ug/L	20
1,2-Dichlorobenzene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
Dichlorodifluoromethane	ND	100	ug/L	20
1,1-Dichloroethane	ND	50	ug/L	10
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**52**	**50**	**ug/L**	**15**
cis-1,2-Dichloroethene	**1100**	**50**	**ug/L**	**15**
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,2-Dichloropropane	ND	50	ug/L	15
1,3-Dichloropropane	ND	50	ug/L	20
2,2-Dichloropropane	ND	50	ug/L	20
1,1-Dichloropropene	ND	50	ug/L	15

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BOE-C6-0049887

ARCADIS G&M, Inc.

Client Sample ID: IRZCMW003_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-012 **Work Order #...:** HTPKH1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	50	ug/L	15
trans-1,3-Dichloropropene	ND	50	ug/L	25
Ethylbenzene	ND	50	ug/L	15
Hexachlorobutadiene	ND	50	ug/L	15
2-Hexanone	ND	250	ug/L	100
Isopropylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
Methylene chloride	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	100
Methyl tert-butyl ether	ND	50	ug/L	25
Naphthalene	ND	50	ug/L	25
n-Propylbenzene	ND	50	ug/L	20
Styrene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
Tetrachloroethene	ND	50	ug/L	20
Toluene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
1,2,4-Trichloro-benzene	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
1,1,2-Trichloroethane	ND	50	ug/L	15
Trichloroethene	**4400**	**50**	**ug/L**	**15**
Trichlorofluoromethane	ND	100	ug/L	15
1,2,3-Trichloropropane	ND	50	ug/L	20
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
1,2,4-Trimethylbenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
Vinyl chloride	ND	50	ug/L	15
m-Xylene & p-Xylene	ND	50	ug/L	25
o-Xylene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	25

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 130)
1,2-Dichloroethane-d4	95	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049888

ARCADIS G&M, Inc.

Client Sample ID: CMW0001_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-013 **Work Order #...:** HTPKJ1AA **Matrix.....:** WG
Date Sampled...: 12/21/05 15:00 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5364186
Prep Date.....: 12/29/05 **Analysis Date..:** 12/29/05
Prep Batch #...: 5364373 **Analysis Time..:** 21:09
Dilution Factor: 125
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1200	ug/L	250
Benzene	ND	120	ug/L	38
Bromobenzene	ND	120	ug/L	38
Bromochloromethane	ND	120	ug/L	50
Bromoform	ND	120	ug/L	50
Bromomethane	ND	250	ug/L	120
2-Butanone	ND	620	ug/L	310
n-Butylbenzene	ND	120	ug/L	38
sec-Butylbenzene	ND	120	ug/L	38
tert-Butylbenzene	ND	120	ug/L	25
Carbon disulfide	ND	120	ug/L	50
Carbon tetrachloride	ND	120	ug/L	38
Chlorobenzene	**6900**	**120**	**ug/L**	**38**
Dibromochloromethane	ND	120	ug/L	50
Bromodichloromethane	ND	120	ug/L	38
Chloroethane	ND	250	ug/L	50
Chloroform	ND	120	ug/L	38
Chloromethane	ND	250	ug/L	38
2-Chlorotoluene	ND	120	ug/L	38
4-Chlorotoluene	ND	120	ug/L	38
1,2-Dibromo-3-chloro-propane	ND	250	ug/L	120
1,2-Dibromoethane (EDB)	ND	120	ug/L	38
Dibromomethane	ND	120	ug/L	50
1,2-Dichlorobenzene	ND	120	ug/L	38
1,3-Dichlorobenzene	ND	120	ug/L	38
1,4-Dichlorobenzene	ND	120	ug/L	38
Dichlorodifluoromethane	ND	250	ug/L	50
1,1-Dichloroethane	ND	120	ug/L	25
1,2-Dichloroethane	ND	120	ug/L	50
1,1-Dichloroethene	ND	120	ug/L	38
cis-1,2-Dichloroethene	ND	120	ug/L	38
trans-1,2-Dichloroethene	ND	120	ug/L	38
1,2-Dichloropropane	ND	120	ug/L	38
1,3-Dichloropropane	ND	120	ug/L	50
2,2-Dichloropropane	ND	120	ug/L	50
1,1-Dichloropropene	ND	120	ug/L	38

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ARCADIS G&M, Inc.

Client Sample ID: CMW0001_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-013 **Work Order #...:** HTPKJ1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	120	ug/L	38
trans-1,3-Dichloropropene	ND	120	ug/L	62
Ethylbenzene	ND	120	ug/L	38
Hexachlorobutadiene	ND	120	ug/L	38
2-Hexanone	ND	620	ug/L	250
Isopropylbenzene	ND	120	ug/L	38
p-Isopropyltoluene	ND	120	ug/L	38
Methylene chloride	ND	120	ug/L	38
4-Methyl-2-pentanone	ND	620	ug/L	250
Methyl tert-butyl ether	ND	120	ug/L	62
Naphthalene	ND	120	ug/L	62
n-Propylbenzene	ND	120	ug/L	50
Styrene	ND	120	ug/L	38
1,1,1,2-Tetrachloroethane	ND	120	ug/L	38
1,1,2,2-Tetrachloroethane	ND	120	ug/L	50
Tetrachloroethene	ND	120	ug/L	50
Toluene	ND	120	ug/L	38
1,2,3-Trichlorobenzene	ND	120	ug/L	50
1,2,4-Trichloro-benzene	ND	120	ug/L	38
1,1,1-Trichloroethane	ND	120	ug/L	25
1,1,2-Trichloroethane	ND	120	ug/L	38
Trichloroethene	ND	120	ug/L	38
Trichlorofluoromethane	ND	250	ug/L	38
1,2,3-Trichloropropane	ND	120	ug/L	50
1,1,2-Trichlorotrifluoro-ethane	ND	120	ug/L	50
1,2,4-Trimethylbenzene	ND	120	ug/L	38
1,3,5-Trimethylbenzene	ND	120	ug/L	25
Vinyl chloride	ND	120	ug/L	38
m-Xylene & p-Xylene	ND	120	ug/L	62
o-Xylene	ND	120	ug/L	25
Xylenes (total)	ND	120	ug/L	62

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	102	(80 - 130)

ARCADIS G&M, Inc.

Client Sample ID: CMW0002_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-014 **Work Order #...:** HTPKK1AA **Matrix.....:** WG
Date Sampled...: 12/21/05 16:00 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5364186
Prep Date.....: 12/29/05 **Analysis Date..:** 12/29/05
Prep Batch #...: 5364373 **Analysis Time..:** 23:03
Dilution Factor: 100
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1000	ug/L	200
Benzene	**56 J**	**100**	**ug/L**	**30**
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	40
Bromoform	ND	100	ug/L	40
Bromomethane	ND	200	ug/L	100
2-Butanone	ND	500	ug/L	250
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	40
Carbon tetrachloride	ND	100	ug/L	30
Chlorobenzene	**6500**	**100**	**ug/L**	**30**
Dibromochloromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
Chloroethane	ND	200	ug/L	40
Chloroform	ND	100	ug/L	30
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	100
1,2-Dibromoethane (EDB)	ND	100	ug/L	30
Dibromomethane	ND	100	ug/L	40
1,2-Dichlorobenzene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
Dichlorodifluoromethane	ND	200	ug/L	40
1,1-Dichloroethane	ND	100	ug/L	20
1,2-Dichloroethane	ND	100	ug/L	40
1,1-Dichloroethene	ND	100	ug/L	30
cis-1,2-Dichloroethene	ND	100	ug/L	30
trans-1,2-Dichloroethene	ND	100	ug/L	30
1,2-Dichloropropane	ND	100	ug/L	30
1,3-Dichloropropane	ND	100	ug/L	40
2,2-Dichloropropane	ND	100	ug/L	40
1,1-Dichloropropene	ND	100	ug/L	30

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ARCADIS G&M, Inc.

Client Sample ID: CMW0002_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-014 **Work Order #...:** HTPKK1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	100	ug/L	30
trans-1,3-Dichloropropene	ND	100	ug/L	50
Ethylbenzene	ND	100	ug/L	30
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	200
Isopropylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
Methylene chloride	ND	100	ug/L	30
4-Methyl-2-pentanone	ND	500	ug/L	200
Methyl tert-butyl ether	ND	100	ug/L	50
Naphthalene	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
Tetrachloroethene	ND	100	ug/L	40
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**340**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	30
1,2,3-Trichloropropane	ND	100	ug/L	40
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
1,2,4-Trimethylbenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Vinyl chloride	ND	100	ug/L	30
m-Xylene & p-Xylene	ND	100	ug/L	50
o-Xylene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
1,2-Dichloroethane-d4	95	(65 - 135)
Toluene-d8	102	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049892

ARCADIS G&M, Inc.

Client Sample ID: CMW0026_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-015 **Work Order #...:** HTPKL1AA **Matrix.....:** WG
Date Sampled...: 12/21/05 16:45 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5364186
Prep Date.....: 12/29/05 **Analysis Date..:** 12/29/05
Prep Batch #...: 5364373 **Analysis Time..:** 18:29
Dilution Factor: 1
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.0
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.40
Bromoform	ND	1.0	ug/L	0.40
Bromomethane	ND	2.0	ug/L	1.0
2-Butanone	ND	5.0	ug/L	2.5
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.40
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	**2.4**	**1.0**	**ug/L**	**0.30**
Dibromochloromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.40
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.30
Dibromomethane	ND	1.0	ug/L	0.40
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	ND	1.0	ug/L	0.40
1,1-Dichloroethene	**4.8**	**1.0**	**ug/L**	**0.30**
cis-1,2-Dichloroethene	**29**	**1.0**	**ug/L**	**0.30**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
1,3-Dichloropropane	ND	1.0	ug/L	0.40
2,2-Dichloropropane	ND	1.0	ug/L	0.40
1,1-Dichloropropene	ND	1.0	ug/L	0.30

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ARCADIS G&M, Inc.

Client Sample ID: CMW0026_WG122105_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-015 **Work Order #...:** HTPKL1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	2.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Naphthalene	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	**4.8**	**1.0**	**ug/L**	**0.30**
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	1.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	105	(80 - 130)

BOE-C6-0049894

ARCADIS G&M, Inc.

Client Sample ID: TB_AR121505_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-016 **Work Order #...:** HTPKN1AA **Matrix.....:** WG
Date Sampled...: 12/15/05 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5364186
Prep Date.....: 12/29/05 **Analysis Date..:** 12/29/05
Prep Batch #...: 5364373 **Analysis Time..:** 18:07
Dilution Factor: 1
Analyst ID.....: 000062 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.0
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.40
Bromoform	ND	1.0	ug/L	0.40
Bromomethane	ND	2.0	ug/L	1.0
2-Butanone	ND	5.0	ug/L	2.5
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.40
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.40
Chloroform	**0.30 J**	**1.0**	**ug/L**	**0.30**
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.30
Dibromomethane	ND	1.0	ug/L	0.40
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	ND	1.0	ug/L	0.40
1,1-Dichloroethene	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
1,3-Dichloropropane	ND	1.0	ug/L	0.40
2,2-Dichloropropane	ND	1.0	ug/L	0.40
1,1-Dichloropropene	ND	1.0	ug/L	0.30

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ARCADIS G&M, Inc.

Client Sample ID: TB_AR121505_01

GC/MS Volatiles

Lot-Sample #...: E5L220372-016 **Work Order #...:** HTPKN1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	2.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Naphthalene	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	1.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049896

SEVERN TRENT STL

QA/QC

BOE-C6-0049897

QC DATA ASSOCIATION SUMMARY

E5L220372

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WG	SW846 8260B		5362587	5362344
002	WG	SW846 8260B		5362587	5362344
003	WG	SW846 8260B		5362587	5362344
004	WG	SW846 8260B		5362587	5362344
005	WG	SW846 8260B		5362587	5362344
006	WG	SW846 8260B		5364373	5364186
007	WG	SW846 8260B		5362587	5362344
008	WG	SW846 8260B		5362587	5362344
009	WG	SW846 8260B		5362587	5362344
010	WG	SW846 8260B		5364373	5364186
011	WG	SW846 8260B		5364373	5364186
012	WG	SW846 8260B		5364373	5364186
013	WG	SW846 8260B		5364373	5364186
014	WG	SW846 8260B		5364373	5364186
015	WG	SW846 8260B		5364373	5364186
016	WG	SW846 8260B		5364373	5364186

BOE-C6-0049898

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5L220372
MB Lot-Sample #: E5L280000-587

Work Order #...: HTWXP1AA

Matrix.....: WATER

Prep Date.....: 12/27/05
Prep Batch #...: 5362587

Analysis Time..: 19:05
Instrument ID..: MSQ

Analysis Date..: 12/27/05
Dilution Factor: 1

Analyst ID.....: 000062

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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BOE-C6-0049899

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5L220372 **Work Order #...:** HTWXP1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(75 - 130)
1,2-Dichloroethane-d4	84	(65 - 135)
Toluene-d8	89	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BOE-C6-0049900

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5L220372
MB Lot-Sample #: E5L300000-373

Work Order #...: HT1QK1AA

Matrix.....: WATER

Prep Date.....: 12/29/05

Analysis Time..: 17:25

Analysis Date..: 12/29/05

Prep Batch #...: 5364373

Instrument ID..: MSQ

Dilution Factor: 1

Analyst ID.....: 000062

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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BOE-C6-0049901

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5L220372 **Work Order #...:** HT1QK1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BOE-C6-0049902

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5L220372 **Work Order #...:** HTWXP1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5L280000-587
Prep Date.....: 12/27/05 **Analysis Date..:** 12/27/05
Prep Batch #...: 5362587 **Analysis Time..:** 18:42
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 000062

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**82**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**86**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**85**	**(65 - 135)**	**SW846 8260B**
Toluene	**87**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**76**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(75 - 130)
1,2-Dichloroethane-d4	83	(65 - 135)
Toluene-d8	91	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0049903

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5L220372 **Work Order #...:** HTWXP1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5L280000-587
Prep Date.....: 12/27/05 **Analysis Date..:** 12/27/05
Prep Batch #...: 5362587 **Analysis Time..:** 18:42
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 000062

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**8.18**	**ug/L**	**82**	**SW846 8260B**
Chlorobenzene	**10.0**	**8.57**	**ug/L**	**86**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**8.51**	**ug/L**	**85**	**SW846 8260B**
Toluene	**10.0**	**8.74**	**ug/L**	**87**	**SW846 8260B**
Trichloroethene	**10.0**	**7.57**	**ug/L**	**76**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(75 - 130)
1,2-Dichloroethane-d4	83	(65 - 135)
Toluene-d8	91	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0049904

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5L220372 **Work Order #...:** HT1QK1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5L300000-373
Prep Date.....: 12/29/05 **Analysis Date..:** 12/29/05
Prep Batch #...: 5364373 **Analysis Time..:** 17:02
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 000062

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**96**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**97**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**91**	**(65 - 135)**	**SW846 8260B**
Toluene	**96**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**99**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 130)
1,2-Dichloroethane-d4	88	(65 - 135)
Toluene-d8	104	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5L220372 **Work Order #...:** HT1QK1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5L300000-373
Prep Date.....: 12/29/05 **Analysis Date..:** 12/29/05
Prep Batch #...: 5364373 **Analysis Time..:** 17:02
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 000062

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.56**	**ug/L**	**96**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.72**	**ug/L**	**97**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**9.11**	**ug/L**	**91**	**SW846 8260B**
Toluene	**10.0**	**9.57**	**ug/L**	**96**	**SW846 8260B**
Trichloroethene	**10.0**	**9.88**	**ug/L**	**99**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 130)
1,2-Dichloroethane-d4	88	(65 - 135)
Toluene-d8	104	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0049906

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5L220372 **Work Order #...:** HTPJQ1AC-MS **Matrix.....:** WG
MS Lot-Sample #: E5L220372-001 HTPJQ1AD-MSD
Date Sampled...: 12/19/05 15:15 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5362344
Prep Date.....: 12/27/05 **Analysis Date..:** 12/27/05
Prep Batch #...: 5362587 **Analysis Time..:** 22:42
Dilution Factor: 12.5 **Analyst ID.....:** 000062 **Instrument ID..:** MSQ

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**81**	**(75 - 125)**			**SW846 8260B**
	84	**(75 - 125)**	**3.6**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**86**	**(75 - 125)**			**SW846 8260B**
	88	**(75 - 125)**	**2.2**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**89**	**(65 - 135)**			**SW846 8260B**
	93	**(65 - 135)**	**3.3**	**(0-25)**	**SW846 8260B**
Toluene	**86**	**(75 - 125)**			**SW846 8260B**
	89	**(75 - 125)**	**3.2**	**(0-25)**	**SW846 8260B**
Trichloroethene	**168 a,MSB**	**(75 - 135)**			**SW846 8260B**
	213 a,MSB	**(75 - 135)**	**4.1**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
	91	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
	93	(65 - 135)
Toluene-d8	91	(80 - 130)
	91	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5L220372 **Work Order #...:** HTPJQ1AC-MS **Matrix.....:** WG
MS Lot-Sample #: E5L220372-001 HTPJQ1AD-MSD
Date Sampled...: 12/19/05 15:15 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5362344
Prep Date.....: 12/27/05 **Analysis Date..:** 12/27/05
Prep Batch #...: 5362587 **Analysis Time..:** 22:42
Dilution Factor: 12.5 **Analyst ID.....:** 000062 **Instrument ID..:** MSQ

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**125**	**101**	**ug/L**	**81**		**SW846 8260B**
	ND	**125**	**104**	**ug/L**	**84**	**3.6**	**SW846 8260B**
Chlorobenzene	**ND**	**125**	**108**	**ug/L**	**86**		**SW846 8260B**
	ND	**125**	**110**	**ug/L**	**88**	**2.2**	**SW846 8260B**
1,1-Dichloroethene	**31**	**125**	**142**	**ug/L**	**89**		**SW846 8260B**
	31	**125**	**147**	**ug/L**	**93**	**3.3**	**SW846 8260B**
Toluene	**ND**	**125**	**107**	**ug/L**	**86**		**SW846 8260B**
	ND	**125**	**111**	**ug/L**	**89**	**3.2**	**SW846 8260B**
Trichloroethene	**1100**	**125**	**1330**	**ug/L**	**168**		**SW846 8260B**
	Qualifiers:		a,MSB				
	1100	**125**	**1390**	**ug/L**	**213**	**4.1**	**SW846 8260B**
	Qualifiers:		a,MSB				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
	91	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
	93	(65 - 135)
Toluene-d8	91	(80 - 130)
	91	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

BOE-C6-0049908

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5L220372 **Work Order #...:** HTPKJ1AC-MS **Matrix.....:** WG
MS Lot-Sample #: E5L220372-013 HTPKJ1AD-MSD
Date Sampled...: 12/21/05 15:00 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5364186
Prep Date.....: 12/29/05 **Analysis Date..:** 12/29/05
Prep Batch #...: 5364373 **Analysis Time..:** 23:26
Dilution Factor: 125 **Analyst ID.....:** 000062 **Instrument ID..:** MSQ

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**102**	**(75 - 125)**			**SW846 8260B**
	98	**(75 - 125)**	**3.8**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**105**	**(75 - 125)**			**SW846 8260B**
	82	**(75 - 125)**	**3.5**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**107**	**(65 - 135)**			**SW846 8260B**
	99	**(65 - 135)**	**7.3**	**(0-25)**	**SW846 8260B**
Toluene	**100**	**(75 - 125)**			**SW846 8260B**
	97	**(75 - 125)**	**3.7**	**(0-25)**	**SW846 8260B**
Trichloroethene	**104**	**(75 - 135)**			**SW846 8260B**
	99	**(75 - 135)**	**5.2**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
	102	(75 - 130)
1,2-Dichloroethane-d4	94	(65 - 135)
	94	(65 - 135)
Toluene-d8	104	(80 - 130)
	103	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5L220372 **Work Order #...:** HTPKJ1AC-MS **Matrix.....:** WG
MS Lot-Sample #: E5L220372-013 HTPKJ1AD-MSD
Date Sampled...: 12/21/05 15:00 **Date Received..:** 12/22/05 16:00 **MS Run #.....:** 5364186
Prep Date.....: 12/29/05 **Analysis Date..:** 12/29/05
Prep Batch #...: 5364373 **Analysis Time..:** 23:26
Dilution Factor: 125 **Analyst ID.....:** 000062 **Instrument ID..:** MSQ

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**1250**	**1270**	**ug/L**	**102**		**SW846 8260B**
	ND	**1250**	**1220**	**ug/L**	**98**	**3.8**	**SW846 8260B**
Chlorobenzene	**6900**	**1250**	**8240**	**ug/L**	**105**		**SW846 8260B**
	6900	**1250**	**7960**	**ug/L**	**82**	**3.5**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**1250**	**1340**	**ug/L**	**107**		**SW846 8260B**
	ND	**1250**	**1240**	**ug/L**	**99**	**7.3**	**SW846 8260B**
Toluene	**ND**	**1250**	**1260**	**ug/L**	**100**		**SW846 8260B**
	ND	**1250**	**1210**	**ug/L**	**97**	**3.7**	**SW846 8260B**
Trichloroethene	**ND**	**1250**	**1300**	**ug/L**	**104**		**SW846 8260B**
	ND	**1250**	**1240**	**ug/L**	**99**	**5.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
	102	(75 - 130)
1,2-Dichloroethane-d4	94	(65 - 135)
	94	(65 - 135)
Toluene-d8	104	(80 - 130)
	103	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

October 4, 2005

STL LOT NUMBER: E5I230414
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

Eric Lothman
ARCADIS Geraghty & Miller, Inc
1400 N. Harbor Blvd.
Suite 700
Fullerton, CA 92835-4127

Dear Mr. Lothman,

This report contains the analytical results for the 17 samples received under chain of custody by STL Los Angeles on September 23, 2005. These samples are associated with your Boeing former C1 facility Long Beach, California project.

All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 325.

Sincerely,

Diane Suzuki
Project Manager

CC: Project File

Page 1 of 000066 total pages in this report.

LOT NUMBER E5I230414

Nonconformance 05-14077

Affected Samples:
E5I230414 (1): TB_AR092105_01
E5I230414 (2): IRZMW001A_WG092105_01
E5I230414 (3): IRZMW001B_WG092105_01
E5I230414 (4): IRZMW002B_WG092105_01
E5I230414 (6): IRZMW003B_WG092105_01
E5I230414 (8): IRZMW004_WG092105_01

Affected Methods:
8260B

Case Narrative:
One VOA vials from the following contain bubbles > 6mm in diameter.
E5I230414 (1): TB_AR092105_01
E5I230414 (3): IRZMW001B_WG092105_01
E5I230414 (4): IRZMW002B_WG092105_01
E5I230414 (8): IRZMW004_WG092105_01

Three VOA vials from samples above contain bubbles > 6mm in diameter.
E5I230414 (2): IRZMW001A_WG092105_01
E5I230414 (6): IRZMW003B_WG092105_01

Analysis is performed on a VOA vial without headspace when available.

BOE-C6-0049912

E5L230414

[redacted]

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

E5L230414

TL-4124 (0901)

Client: ARCADIS	Project Manager: ERIC LOTHMAN	Date: 9/21/05 & 9/22/05	Chain of Custody Number: 216860
Address: 1400 N. HARBOR BLVD., #700	Telephone Number (Area Code)/Fax Number: (714) 278-0992 / (714) 278-0051	Lab Number	Page 1 of 2
City: FULLERTON; State: CA; Zip Code: 92835	Site Contact: S. A. GYAMFI	Lab Contact: DIANA SUZUKI	
Project Name and Location (State): FORMER BOEING C-6 FACILITY	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): 8260B

Special Instructions/Conditions of Receipt: Analyze for VOCs (8260B)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives (3 VOAs/sample): Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH
TB-AR092105_01	9/21/05			↓						↓		
IRZMW001A_WG092105_01		1125										
RZMW001B_WG092105_01		1246										
RZMW002B_WG092105_01		1428										
RZMW003A_WG092105_01		1536										
RZMW003B_WG092105_01		1622										
RZMW002A_WG092105_01		1702										
RZMW004_WG092105_01	↓	1756										
RZMW005_WG092205_01	9/22/05	0708										
RZCMW001_WG092205_01		0825										
RZCMW003_WG092205_01		0945										
CMW0026_WG092205_01	↓	1042		↓						↓		

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Stephen A. Gyamfi	9/23/05	1405	1. Received By: Vivian Padilla	9/23/05	1400
2. Relinquished By: Vivian Padilla	9/23/05	1600	2. Received By: [illegible]	9/23/05	16:00
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

28°C - .4°C = 2.4°C

BOE-C6-0049913

E5I230414

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

E5I230414

TL-4124 (0901)

Client: ARCADIS	Project Manager: ERIC LOTHMAN	Date: 9/22/05	Chain of Custody Number: 216859
Address: 1400 N. HARBOR BLVD. #700	Telephone Number (Area Code)/Fax Number: (714) 278-0992 / (714) 278-0051	Lab Number:	Page 2 of 2
City: FULLERTON; State: CA; Zip Code: 92835	Site Contact: S. A. GYAMFI	Lab Contact: DIANA SUZUKI	
Project Name and Location (State): BOEING C-6	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Analysis (Attach list if more space is needed): 8260B

Special Instructions/ Conditions of Receipt: 8260B

Matrix: Air, Aqueous, Sed., Soil

Containers & Preservatives: 3 vials/sample; Unpres., H2SO4, HNO3, HCl, NaOH, ZnAc/NaOH

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix	Containers & Preservatives	8260B
RZCMW002_WG092205_01	9/22/05	1208	Aqueous	HCl	↓
CMW0001_WG092205_01	↓	1320	↓	↓	↓
CMW0002-WG092205_01		1500			
RZB0095_WG092205_01		1710			
RZB0081_WG092205_01		1835			

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Stephen A. Gyamfi	9/23/05	1405	1. Received By: Vinnie Padilla	9/23/05	1405
2. Relinquished By: Vinnie Padilla	9/23/05	1600	2. Received By: [illegible]	9/23/00	16:00
3. Relinquished By:			3. Received By:		

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

4

BOE-C6-0049914

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 9/23/05

LIMS Lot #: E5I230414 Quote #: 48735

Client Name: Arcadis Project: Former Boeing Facility (C-6)

Received by: CA Date/Time Received: 9/23/05 16:00

Delivered by : ☐ Client ☒ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other

****

	Initial / Date
Custody Seal Status Cooler: ☐Intact ☐Broken ☒None	CA 9/23/05
Custody Seal Status Samples: ☐Intact ☐Broken ☒None	
Custody Seal #(s): ☒No Seal #	
Sampler Signature on COC ☐ Yes ☒No CA 9/23/05 ☒N/A	
IR Gun # A Correction Factor .4 °C IR passed daily verification ☒Yes ☐No	
Temperature - **BLANK** 2.8 °C +/- .4 CF = 2.4 °C	
Temperature – **COOLER** (____°C ____°C ____°C ____°C) = ____ avg °C +/- ____ CF = ____°C	
Samples outside temperature criteria but received within 6 hours of final sampling ☐ Yes ☒N/A	
Sample Container(s): ☒STL-LA ☐ Client	
One COC/Multiple coolers: ☐ Yes- # coolers ____ All within temp criteria ☐ Yes ☐No ☒N/A	
One or more coolers with an anomaly: ☐ Yes – (fill out PRC for each) ☒N/A	
Samples: ☒Intact ☐Broken ☐Other	
pH measured: ☐ Yes ☐ Anomaly (if checked, notify lab and file NCM) ☒N/A	
Anomalies: ☐No ☒Yes – complete CUR and Create NCM NCM #	
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☐ Yes ☒N/A	
Labeled by: SAL M Labeling checked	

****

Turn Around Time: ☐RUSH–24HR ☐RUSH–48HR ☐RUSH–72HR ☒NORMAL

Short-Hold Notification: ☐ pH ☐Wet Chem ☐Metals (Filter/Pres) ☐Encore ☐ >1/2 HT expired… CA 9/23/05

Outside Analysis(es) (Test/Lab/Date Sent Out) :

_____

_____

_____

********** LEAVE NO BLANK SPACES ; USE N/A **********

Headspace Anomaly ☐N/A CA 9/23/05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
001	1	☒ > 6mm			☐ > 6mm
002	1-3	☒ > 6mm			☐ > 6mm
003	1	☒ > 6mm			☐ > 6mm
004	1	☒ > 6mm			☐ > 6mm
006	1-3	☒ > 6mm			☐ > 6mm
008	1	☒ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # E5I230414

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1-17													
VOAH/ *	3													

* VOA with headspace/bubbles < 6mm

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore
AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form

☐N/A CA 9/23/05

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking
  - ☐ Other:
- **CUSTODY SEALS (COOLER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **CONTAINER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - ☐ Cooler Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by Client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ Other ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☒ Voa Vials with Bubbles > 6mm
  - ☐ Broken
  - ☐ Extra
  - ☐ Without Labels
  - ☐ Other:
- **LABELS**
  - ☐ Not the same ID/info as in COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
  - ☐ Torn
- **SAMPLES**
  - ☐ Samples NOT RECEIVED but listed on COC
  - ☐ Samples received but NOT LISTED on COC
  - ☐ Logged based on Label Information
  - ☐ Logged based on info from other samples on COC
  - ☐ Logged according to Work Plan
  - ☐ Logged on HOLD UNTIL FURTHER NOTICE
  - ☐ Will be noted on COC--Client to send samples with new COC
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Improper container used
  - ☐ Not preserved/Improper preservative used
  - ☐ Improper pH _____ Lab to preserve sample and document
  - ☐ Insufficient quantities for analysis ☐ Other

Comments:

☐ Corrective Action Implemented:

☐ Client Informed: verbally on _____ By: _____ ☐ In writing on _____ By: _____

☐ Sample(s) on hold until: _____ ☐ Sample(s) processed "as is."

Logged by/Date: Albert Vazquez 9-23-05

PM Review/Date: 09-26-05

SEVERN TRENT STL

Analytical Report

BOE-C6-0049917

EXECUTIVE SUMMARY - Detection Highlights

E5I230414

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TB_AR092105_01 09/21/05 001				
1,2-Dichloroethane	0.54 J	1.0	ug/L	SW846 8260B
IRZMW001A_WG092105_01 09/21/05 11:25 002				
1,1-Dichloroethene	100 J	310	ug/L	SW846 8260B
cis-1,2-Dichloroethene	100 J	310	ug/L	SW846 8260B
Trichloroethene	16000	310	ug/L	SW846 8260B
IRZMW001B_WG092105_01 09/21/05 12:46 003				
1,1-Dichloroethene	16 J	17	ug/L	SW846 8260B
cis-1,2-Dichloroethene	13 J	17	ug/L	SW846 8260B
Trichloroethene	1100	17	ug/L	SW846 8260B
IRZMW002B_WG092105_01 09/21/05 14:28 004				
1,1-Dichloroethene	5.1 J	10	ug/L	SW846 8260B
cis-1,2-Dichloroethene	38	10	ug/L	SW846 8260B
Trichloroethene	410	10	ug/L	SW846 8260B
IRZMW003A_WG092105_01 09/21/05 15:36 005				
Trichloroethene	24000	420	ug/L	SW846 8260B
IRZMW003B_WG092105_01 09/21/05 16:22 006				
1,1-Dichloroethene	51	17	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1000	17	ug/L	SW846 8260B
Trichloroethene	1400	17	ug/L	SW846 8260B
IRZMW002A_WG092105_01 09/21/05 17:02 007				
1,1-Dichloroethene	95 J	100	ug/L	SW846 8260B
cis-1,2-Dichloroethene	5000	100	ug/L	SW846 8260B
Trichloroethene	7300	100	ug/L	SW846 8260B
IRZMW004_WG092105_01 09/21/05 17:56 008				
1,1-Dichloroethene	50	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	3500	50	ug/L	SW846 8260B
Trichloroethene	470	50	ug/L	SW846 8260B
Vinyl chloride	240	50	ug/L	SW846 8260B

(Continued on next page)

BOE-C6-0049918

EXECUTIVE SUMMARY - Detection Highlights

E5I230414

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZMW005_WG092205_01 09/22/05 07:08	**009**			
1,1-Dichloroethene	28 J	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	3400	50	ug/L	SW846 8260B
Trichloroethene	340	50	ug/L	SW846 8260B
IRZCMW001_WG092205_01 09/22/05 08:25	**010**			
Chloroform	9.5 J	20	ug/L	SW846 8260B
1,1-Dichloroethane	16 J	20	ug/L	SW846 8260B
1,2-Dichloroethane	10 J	20	ug/L	SW846 8260B
1,1-Dichloroethene	510	20	ug/L	SW846 8260B
cis-1,2-Dichloroethene	39	20	ug/L	SW846 8260B
trans-1,2-Dichloroethene	8.3 J	20	ug/L	SW846 8260B
Trichloroethene	1500	20	ug/L	SW846 8260B
IRZCMW003_WG092205_01 09/22/05 09:45	**011**			
Chloroform	16 J	50	ug/L	SW846 8260B
1,1-Dichloroethene	59	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1700	50	ug/L	SW846 8260B
Trichloroethene	3900	50	ug/L	SW846 8260B
CMW0026_WG092205_01 09/22/05 10:42	**012**			
1,1-Dichloroethane	0.44 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	18	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	91	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	1.1	1.0	ug/L	SW846 8260B
Trichloroethene	24	1.0	ug/L	SW846 8260B
IRZCMW002_WG092205_01 09/22/05 12:08	**013**			
Benzene	42 J	100	ug/L	SW846 8260B
Chlorobenzene	7900	100	ug/L	SW846 8260B
Trichloroethene	360	100	ug/L	SW846 8260B
CMW0001_WG092205_01 09/22/05 13:20	**014**			
Chlorobenzene	11000	120	ug/L	SW846 8260B

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BOE-C6-0049919

EXECUTIVE SUMMARY - Detection Highlights

E5I230414

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CMW0002_WG092205_01 09/22/05 15:00 015				
1,1-Dichloroethene	32 J	100	ug/L	SW846 8260B
cis-1,2-Dichloroethene	5800	100	ug/L	SW846 8260B
Trichloroethene	100	100	ug/L	SW846 8260B
IRZB0095_WG092205_01 09/22/05 17:10 016				
Acetone	69	50	ug/L	SW846 8260B
2-Butanone	90	25	ug/L	SW846 8260B
Chlorobenzene	89	5.0	ug/L	SW846 8260B
Chloroform	4.2 J	5.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	30	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	2.5 J	5.0	ug/L	SW846 8260B
Trichloroethene	23	5.0	ug/L	SW846 8260B
Vinyl chloride	120	5.0	ug/L	SW846 8260B
IRZB0081_WG092205_01 09/22/05 18:35 017				
1,1-Dichloroethene	33 J	100	ug/L	SW846 8260B
cis-1,2-Dichloroethene	7600	100	ug/L	SW846 8260B
Trichloroethene	36 J	100	ug/L	SW846 8260B

BOE-C6-0049920

METHODS SUMMARY

E5I230414

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

BOE-C6-0049921

SAMPLE SUMMARY

E5I230414

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HLA1M	001	TB_AR092105_01	09/21/05	
HLA2J	002	IRZMW001A_WG092105_01	09/21/05	11:25
HLA2Q	003	IRZMW001B_WG092105_01	09/21/05	12:46
HLA2W	004	IRZMW002B_WG092105_01	09/21/05	14:28
HLA25	005	IRZMW003A_WG092105_01	09/21/05	15:36
HLA26	006	IRZMW003B_WG092105_01	09/21/05	16:22
HLA27	007	IRZMW002A_WG092105_01	09/21/05	17:02
HLA29	008	IRZMW004_WG092105_01	09/21/05	17:56
HLA3C	009	IRZMW005_WG092205_01	09/22/05	07:08
HLA3H	010	IRZCMW001_WG092205_01	09/22/05	08:25
HLA3L	011	IRZCMW003_WG092205_01	09/22/05	09:45
HLA3P	012	CMW0026_WG092205_01	09/22/05	10:42
HLA3R	013	IRZCMW002_WG092205_01	09/22/05	12:08
HLA3W	014	CMW0001_WG092205_01	09/22/05	13:20
HLA31	015	CMW0002_WG092205_01	09/22/05	15:00
HLA34	016	IRZB0095_WG092205_01	09/22/05	17:10
HLA36	017	IRZB0081_WG092205_01	09/22/05	18:35

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

BOE-C6-0049922

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-001 **Work Order #...:** HLA1M1AA **Matrix.....:** W
Date Sampled...: 09/21/05 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5269442
Prep Date.....: 09/26/05 **Analysis Date..:** 09/26/05
Prep Batch #...: 5269711 **Analysis Time..:** 14:31
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.0
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.40
Bromoform	ND	1.0	ug/L	0.40
Bromomethane	ND	2.0	ug/L	1.0
2-Butanone	ND	5.0	ug/L	2.5
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.40
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.40
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.30
Dibromomethane	ND	1.0	ug/L	0.40
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	**0.54 J**	**1.0**	**ug/L**	**0.40**
1,1-Dichloroethene	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
1,3-Dichloropropane	ND	1.0	ug/L	0.40
2,2-Dichloropropane	ND	1.0	ug/L	0.40
1,1-Dichloropropene	ND	1.0	ug/L	0.30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-001 **Work Order #...:** HLA1M1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	2.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Naphthalene	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	1.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	86	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-002 **Work Order #...:** HLA2J1AA **Matrix.....:** W
Date Sampled...: 09/21/05 11:25 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5269442
Prep Date.....: 09/26/05 **Analysis Date..:** 09/26/05
Prep Batch #...: 5269711 **Analysis Time..:** 15:31
Dilution Factor: 312.5
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	3100	ug/L	620
Benzene	ND	310	ug/L	94
Bromobenzene	ND	310	ug/L	94
Bromochloromethane	ND	310	ug/L	120
Bromoform	ND	310	ug/L	120
Bromomethane	ND	620	ug/L	310
2-Butanone	ND	1600	ug/L	780
n-Butylbenzene	ND	310	ug/L	94
sec-Butylbenzene	ND	310	ug/L	94
tert-Butylbenzene	ND	310	ug/L	62
Carbon disulfide	ND	310	ug/L	120
Carbon tetrachloride	ND	310	ug/L	94
Chlorobenzene	ND	310	ug/L	94
Dibromochloromethane	ND	310	ug/L	120
Bromodichloromethane	ND	310	ug/L	94
Chloroethane	ND	620	ug/L	120
Chloroform	ND	310	ug/L	94
Chloromethane	ND	620	ug/L	94
2-Chlorotoluene	ND	310	ug/L	94
4-Chlorotoluene	ND	310	ug/L	94
1,2-Dibromo-3-chloro-propane	ND	620	ug/L	310
1,2-Dibromoethane (EDB)	ND	310	ug/L	94
Dibromomethane	ND	310	ug/L	120
1,2-Dichlorobenzene	ND	310	ug/L	94
1,3-Dichlorobenzene	ND	310	ug/L	94
1,4-Dichlorobenzene	ND	310	ug/L	94
Dichlorodifluoromethane	ND	620	ug/L	120
1,1-Dichloroethane	ND	310	ug/L	62
1,2-Dichloroethane	ND	310	ug/L	120
1,1-Dichloroethene	**100 J**	**310**	**ug/L**	**94**
cis-1,2-Dichloroethene	**100 J**	**310**	**ug/L**	**94**
trans-1,2-Dichloroethene	ND	310	ug/L	94
1,2-Dichloropropane	ND	310	ug/L	94
1,3-Dichloropropane	ND	310	ug/L	120
2,2-Dichloropropane	ND	310	ug/L	120
1,1-Dichloropropene	ND	310	ug/L	94

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-002 **Work Order #...:** HLA2J1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	310	ug/L	94
trans-1,3-Dichloropropene	ND	310	ug/L	160
Ethylbenzene	ND	310	ug/L	94
Hexachlorobutadiene	ND	310	ug/L	94
2-Hexanone	ND	1600	ug/L	620
Isopropylbenzene	ND	310	ug/L	94
p-Isopropyltoluene	ND	310	ug/L	94
Methylene chloride	ND	310	ug/L	94
4-Methyl-2-pentanone	ND	1600	ug/L	620
Methyl tert-butyl ether	ND	310	ug/L	160
Naphthalene	ND	310	ug/L	160
n-Propylbenzene	ND	310	ug/L	120
Styrene	ND	310	ug/L	94
1,1,1,2-Tetrachloroethane	ND	310	ug/L	94
1,1,2,2-Tetrachloroethane	ND	310	ug/L	120
Tetrachloroethene	ND	310	ug/L	120
Toluene	ND	310	ug/L	94
1,2,3-Trichlorobenzene	ND	310	ug/L	120
1,2,4-Trichloro-benzene	ND	310	ug/L	94
1,1,1-Trichloroethane	ND	310	ug/L	62
1,1,2-Trichloroethane	ND	310	ug/L	94
Trichloroethene	**16000**	**310**	**ug/L**	**94**
Trichlorofluoromethane	ND	620	ug/L	94
1,2,3-Trichloropropane	ND	310	ug/L	120
1,1,2-Trichlorotrifluoro-ethane	ND	310	ug/L	120
1,2,4-Trimethylbenzene	ND	310	ug/L	94
1,3,5-Trimethylbenzene	ND	310	ug/L	62
Vinyl chloride	ND	310	ug/L	94
m-Xylene & p-Xylene	ND	310	ug/L	160
o-Xylene	ND	310	ug/L	62
Xylenes (total)	ND	310	ug/L	160

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	87	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049926

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-003 **Work Order #...:** HLA2Q1AA **Matrix.....:** W
Date Sampled...: 09/21/05 12:46 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5269442
Prep Date.....: 09/26/05 **Analysis Date..:** 09/26/05
Prep Batch #...: 5269711 **Analysis Time..:** 15:54
Dilution Factor: 16.67
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	170	ug/L	33
Benzene	ND	17	ug/L	5.0
Bromobenzene	ND	17	ug/L	5.0
Bromochloromethane	ND	17	ug/L	6.7
Bromoform	ND	17	ug/L	6.7
Bromomethane	ND	33	ug/L	17
2-Butanone	ND	83	ug/L	42
n-Butylbenzene	ND	17	ug/L	5.0
sec-Butylbenzene	ND	17	ug/L	5.0
tert-Butylbenzene	ND	17	ug/L	3.3
Carbon disulfide	ND	17	ug/L	6.7
Carbon tetrachloride	ND	17	ug/L	5.0
Chlorobenzene	ND	17	ug/L	5.0
Dibromochloromethane	ND	17	ug/L	6.7
Bromodichloromethane	ND	17	ug/L	5.0
Chloroethane	ND	33	ug/L	6.7
Chloroform	ND	17	ug/L	5.0
Chloromethane	ND	33	ug/L	5.0
2-Chlorotoluene	ND	17	ug/L	5.0
4-Chlorotoluene	ND	17	ug/L	5.0
1,2-Dibromo-3-chloro-propane	ND	33	ug/L	17
1,2-Dibromoethane (EDB)	ND	17	ug/L	5.0
Dibromomethane	ND	17	ug/L	6.7
1,2-Dichlorobenzene	ND	17	ug/L	5.0
1,3-Dichlorobenzene	ND	17	ug/L	5.0
1,4-Dichlorobenzene	ND	17	ug/L	5.0
Dichlorodifluoromethane	ND	33	ug/L	6.7
1,1-Dichloroethane	ND	17	ug/L	3.3
1,2-Dichloroethane	ND	17	ug/L	6.7
1,1-Dichloroethene	**16 J**	**17**	**ug/L**	**5.0**
cis-1,2-Dichloroethene	**13 J**	**17**	**ug/L**	**5.0**
trans-1,2-Dichloroethene	ND	17	ug/L	5.0
1,2-Dichloropropane	ND	17	ug/L	5.0
1,3-Dichloropropane	ND	17	ug/L	6.7
2,2-Dichloropropane	ND	17	ug/L	6.7
1,1-Dichloropropene	ND	17	ug/L	5.0

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BOE-C6-0049927

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-003 **Work Order #...:** HLA2Q1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	17	ug/L	5.0
trans-1,3-Dichloropropene	ND	17	ug/L	8.3
Ethylbenzene	ND	17	ug/L	5.0
Hexachlorobutadiene	ND	17	ug/L	5.0
2-Hexanone	ND	83	ug/L	33
Isopropylbenzene	ND	17	ug/L	5.0
p-Isopropyltoluene	ND	17	ug/L	5.0
Methylene chloride	ND	17	ug/L	5.0
4-Methyl-2-pentanone	ND	83	ug/L	33
Methyl tert-butyl ether	ND	17	ug/L	8.3
Naphthalene	ND	17	ug/L	8.3
n-Propylbenzene	ND	17	ug/L	6.7
Styrene	ND	17	ug/L	5.0
1,1,1,2-Tetrachloroethane	ND	17	ug/L	5.0
1,1,2,2-Tetrachloroethane	ND	17	ug/L	6.7
Tetrachloroethene	ND	17	ug/L	6.7
Toluene	ND	17	ug/L	5.0
1,2,3-Trichlorobenzene	ND	17	ug/L	6.7
1,2,4-Trichloro-benzene	ND	17	ug/L	5.0
1,1,1-Trichloroethane	ND	17	ug/L	3.3
1,1,2-Trichloroethane	ND	17	ug/L	5.0
Trichloroethene	**1100**	**17**	**ug/L**	**5.0**
Trichlorofluoromethane	ND	33	ug/L	5.0
1,2,3-Trichloropropane	ND	17	ug/L	6.7
1,1,2-Trichlorotrifluoro-ethane	ND	17	ug/L	6.7
1,2,4-Trimethylbenzene	ND	17	ug/L	5.0
1,3,5-Trimethylbenzene	ND	17	ug/L	3.3
Vinyl chloride	ND	17	ug/L	5.0
m-Xylene & p-Xylene	ND	17	ug/L	8.3
o-Xylene	ND	17	ug/L	3.3
Xylenes (total)	ND	17	ug/L	8.3

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	97	(65 - 135)
Toluene-d8	87	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-004 **Work Order #...:** HLA2W1AA **Matrix.....:** W
Date Sampled...: 09/21/05 14:28 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5273371
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5273586 **Analysis Time..:** 10:54
Dilution Factor: 10
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	100	ug/L	20
Benzene	ND	10	ug/L	3.0
Bromobenzene	ND	10	ug/L	3.0
Bromochloromethane	ND	10	ug/L	4.0
Bromoform	ND	10	ug/L	4.0
Bromomethane	ND	20	ug/L	10
2-Butanone	ND	50	ug/L	25
n-Butylbenzene	ND	10	ug/L	3.0
sec-Butylbenzene	ND	10	ug/L	3.0
tert-Butylbenzene	ND	10	ug/L	2.0
Carbon disulfide	ND	10	ug/L	4.0
Carbon tetrachloride	ND	10	ug/L	3.0
Chlorobenzene	ND	10	ug/L	3.0
Dibromochloromethane	ND	10	ug/L	4.0
Bromodichloromethane	ND	10	ug/L	3.0
Chloroethane	ND	20	ug/L	4.0
Chloroform	ND	10	ug/L	3.0
Chloromethane	ND	20	ug/L	3.0
2-Chlorotoluene	ND	10	ug/L	3.0
4-Chlorotoluene	ND	10	ug/L	3.0
1,2-Dibromo-3-chloro-propane	ND	20	ug/L	10
1,2-Dibromoethane (EDB)	ND	10	ug/L	3.0
Dibromomethane	ND	10	ug/L	4.0
1,2-Dichlorobenzene	ND	10	ug/L	3.0
1,3-Dichlorobenzene	ND	10	ug/L	3.0
1,4-Dichlorobenzene	ND	10	ug/L	3.0
Dichlorodifluoromethane	ND	20	ug/L	4.0
1,1-Dichloroethane	ND	10	ug/L	2.0
1,2-Dichloroethane	ND	10	ug/L	4.0
1,1-Dichloroethene	**5.1 J**	**10**	**ug/L**	**3.0**
cis-1,2-Dichloroethene	**38**	**10**	**ug/L**	**3.0**
trans-1,2-Dichloroethene	ND	10	ug/L	3.0
1,2-Dichloropropane	ND	10	ug/L	3.0
1,3-Dichloropropane	ND	10	ug/L	4.0
2,2-Dichloropropane	ND	10	ug/L	4.0
1,1-Dichloropropene	ND	10	ug/L	3.0

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-004 **Work Order #...:** HLA2W1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	10	ug/L	3.0
trans-1,3-Dichloropropene	ND	10	ug/L	5.0
Ethylbenzene	ND	10	ug/L	3.0
Hexachlorobutadiene	ND	10	ug/L	3.0
2-Hexanone	ND	50	ug/L	20
Isopropylbenzene	ND	10	ug/L	3.0
p-Isopropyltoluene	ND	10	ug/L	3.0
Methylene chloride	ND	10	ug/L	3.0
4-Methyl-2-pentanone	ND	50	ug/L	20
Methyl tert-butyl ether	ND	10	ug/L	5.0
Naphthalene	ND	10	ug/L	5.0
n-Propylbenzene	ND	10	ug/L	4.0
Styrene	ND	10	ug/L	3.0
1,1,1,2-Tetrachloroethane	ND	10	ug/L	3.0
1,1,2,2-Tetrachloroethane	ND	10	ug/L	4.0
Tetrachloroethene	ND	10	ug/L	4.0
Toluene	ND	10	ug/L	3.0
1,2,3-Trichlorobenzene	ND	10	ug/L	4.0
1,2,4-Trichloro-benzene	ND	10	ug/L	3.0
1,1,1-Trichloroethane	ND	10	ug/L	2.0
1,1,2-Trichloroethane	ND	10	ug/L	3.0
Trichloroethene	**410**	**10**	**ug/L**	**3.0**
Trichlorofluoromethane	ND	20	ug/L	3.0
1,2,3-Trichloropropane	ND	10	ug/L	4.0
1,1,2-Trichlorotrifluoro-ethane	ND	10	ug/L	4.0
1,2,4-Trimethylbenzene	ND	10	ug/L	3.0
1,3,5-Trimethylbenzene	ND	10	ug/L	2.0
Vinyl chloride	ND	10	ug/L	3.0
m-Xylene & p-Xylene	ND	10	ug/L	5.0
o-Xylene	ND	10	ug/L	2.0
Xylenes (total)	ND	10	ug/L	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	82	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-005 **Work Order #...:** HLA251AA **Matrix.....:** W
Date Sampled...: 09/21/05 15:36 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5269442
Prep Date.....: 09/26/05 **Analysis Date..:** 09/26/05
Prep Batch #...: 5269711 **Analysis Time..:** 16:40
Dilution Factor: 416.7
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	4200	ug/L	830
Benzene	ND	420	ug/L	130
Bromobenzene	ND	420	ug/L	130
Bromochloromethane	ND	420	ug/L	170
Bromoform	ND	420	ug/L	170
Bromomethane	ND	830	ug/L	420
2-Butanone	ND	2100	ug/L	1000
n-Butylbenzene	ND	420	ug/L	130
sec-Butylbenzene	ND	420	ug/L	130
tert-Butylbenzene	ND	420	ug/L	83
Carbon disulfide	ND	420	ug/L	170
Carbon tetrachloride	ND	420	ug/L	130
Chlorobenzene	ND	420	ug/L	130
Dibromochloromethane	ND	420	ug/L	170
Bromodichloromethane	ND	420	ug/L	130
Chloroethane	ND	830	ug/L	170
Chloroform	ND	420	ug/L	130
Chloromethane	ND	830	ug/L	130
2-Chlorotoluene	ND	420	ug/L	130
4-Chlorotoluene	ND	420	ug/L	130
1,2-Dibromo-3-chloro-propane	ND	830	ug/L	420
1,2-Dibromoethane (EDB)	ND	420	ug/L	130
Dibromomethane	ND	420	ug/L	170
1,2-Dichlorobenzene	ND	420	ug/L	130
1,3-Dichlorobenzene	ND	420	ug/L	130
1,4-Dichlorobenzene	ND	420	ug/L	130
Dichlorodifluoromethane	ND	830	ug/L	170
1,1-Dichloroethane	ND	420	ug/L	83
1,2-Dichloroethane	ND	420	ug/L	170
1,1-Dichloroethene	ND	420	ug/L	130
cis-1,2-Dichloroethene	ND	420	ug/L	130
trans-1,2-Dichloroethene	ND	420	ug/L	130
1,2-Dichloropropane	ND	420	ug/L	130
1,3-Dichloropropane	ND	420	ug/L	170
2,2-Dichloropropane	ND	420	ug/L	170
1,1-Dichloropropene	ND	420	ug/L	130

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-005 **Work Order #...:** HLA251AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	420	ug/L	130
trans-1,3-Dichloropropene	ND	420	ug/L	210
Ethylbenzene	ND	420	ug/L	130
Hexachlorobutadiene	ND	420	ug/L	130
2-Hexanone	ND	2100	ug/L	830
Isopropylbenzene	ND	420	ug/L	130
p-Isopropyltoluene	ND	420	ug/L	130
Methylene chloride	ND	420	ug/L	130
4-Methyl-2-pentanone	ND	2100	ug/L	830
Methyl tert-butyl ether	ND	420	ug/L	210
Naphthalene	ND	420	ug/L	210
n-Propylbenzene	ND	420	ug/L	170
Styrene	ND	420	ug/L	130
1,1,1,2-Tetrachloroethane	ND	420	ug/L	130
1,1,2,2-Tetrachloroethane	ND	420	ug/L	170
Tetrachloroethene	ND	420	ug/L	170
Toluene	ND	420	ug/L	130
1,2,3-Trichlorobenzene	ND	420	ug/L	170
1,2,4-Trichloro-benzene	ND	420	ug/L	130
1,1,1-Trichloroethane	ND	420	ug/L	83
1,1,2-Trichloroethane	ND	420	ug/L	130
Trichloroethene	**24000**	**420**	**ug/L**	**130**
Trichlorofluoromethane	ND	830	ug/L	130
1,2,3-Trichloropropane	ND	420	ug/L	170
1,1,2-Trichlorotrifluoro-ethane	ND	420	ug/L	170
1,2,4-Trimethylbenzene	ND	420	ug/L	130
1,3,5-Trimethylbenzene	ND	420	ug/L	83
Vinyl chloride	ND	420	ug/L	130
m-Xylene & p-Xylene	ND	420	ug/L	210
o-Xylene	ND	420	ug/L	83
Xylenes (total)	ND	420	ug/L	210

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	109	(65 - 135)
Toluene-d8	84	(80 - 130)

BOE-C6-0049932

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-006 **Work Order #...:** HLA261AA **Matrix.....:** W
Date Sampled...: 09/21/05 16:22 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5269442
Prep Date.....: 09/26/05 **Analysis Date..:** 09/26/05
Prep Batch #...: 5269711 **Analysis Time..:** 17:03
Dilution Factor: 16.67
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	170	ug/L	33
Benzene	ND	17	ug/L	5.0
Bromobenzene	ND	17	ug/L	5.0
Bromochloromethane	ND	17	ug/L	6.7
Bromoform	ND	17	ug/L	6.7
Bromomethane	ND	33	ug/L	17
2-Butanone	ND	83	ug/L	42
n-Butylbenzene	ND	17	ug/L	5.0
sec-Butylbenzene	ND	17	ug/L	5.0
tert-Butylbenzene	ND	17	ug/L	3.3
Carbon disulfide	ND	17	ug/L	6.7
Carbon tetrachloride	ND	17	ug/L	5.0
Chlorobenzene	ND	17	ug/L	5.0
Dibromochloromethane	ND	17	ug/L	6.7
Bromodichloromethane	ND	17	ug/L	5.0
Chloroethane	ND	33	ug/L	6.7
Chloroform	ND	17	ug/L	5.0
Chloromethane	ND	33	ug/L	5.0
2-Chlorotoluene	ND	17	ug/L	5.0
4-Chlorotoluene	ND	17	ug/L	5.0
1,2-Dibromo-3-chloro-propane	ND	33	ug/L	17
1,2-Dibromoethane (EDB)	ND	17	ug/L	5.0
Dibromomethane	ND	17	ug/L	6.7
1,2-Dichlorobenzene	ND	17	ug/L	5.0
1,3-Dichlorobenzene	ND	17	ug/L	5.0
1,4-Dichlorobenzene	ND	17	ug/L	5.0
Dichlorodifluoromethane	ND	33	ug/L	6.7
1,1-Dichloroethane	ND	17	ug/L	3.3
1,2-Dichloroethane	ND	17	ug/L	6.7
1,1-Dichloroethene	**51**	**17**	**ug/L**	**5.0**
cis-1,2-Dichloroethene	**1000**	**17**	**ug/L**	**5.0**
trans-1,2-Dichloroethene	ND	17	ug/L	5.0
1,2-Dichloropropane	ND	17	ug/L	5.0
1,3-Dichloropropane	ND	17	ug/L	6.7
2,2-Dichloropropane	ND	17	ug/L	6.7
1,1-Dichloropropene	ND	17	ug/L	5.0

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BOE-C6-0049933

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-006 **Work Order #...:** HLA261AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	17	ug/L	5.0
trans-1,3-Dichloropropene	ND	17	ug/L	8.3
Ethylbenzene	ND	17	ug/L	5.0
Hexachlorobutadiene	ND	17	ug/L	5.0
2-Hexanone	ND	83	ug/L	33
Isopropylbenzene	ND	17	ug/L	5.0
p-Isopropyltoluene	ND	17	ug/L	5.0
Methylene chloride	ND	17	ug/L	5.0
4-Methyl-2-pentanone	ND	83	ug/L	33
Methyl tert-butyl ether	ND	17	ug/L	8.3
Naphthalene	ND	17	ug/L	8.3
n-Propylbenzene	ND	17	ug/L	6.7
Styrene	ND	17	ug/L	5.0
1,1,1,2-Tetrachloroethane	ND	17	ug/L	5.0
1,1,2,2-Tetrachloroethane	ND	17	ug/L	6.7
Tetrachloroethene	ND	17	ug/L	6.7
Toluene	ND	17	ug/L	5.0
1,2,3-Trichlorobenzene	ND	17	ug/L	6.7
1,2,4-Trichloro-benzene	ND	17	ug/L	5.0
1,1,1-Trichloroethane	ND	17	ug/L	3.3
1,1,2-Trichloroethane	ND	17	ug/L	5.0
Trichloroethene	**1400**	**17**	**ug/L**	**5.0**
Trichlorofluoromethane	ND	33	ug/L	5.0
1,2,3-Trichloropropane	ND	17	ug/L	6.7
1,1,2-Trichlorotrifluoro-ethane	ND	17	ug/L	6.7
1,2,4-Trimethylbenzene	ND	17	ug/L	5.0
1,3,5-Trimethylbenzene	ND	17	ug/L	3.3
Vinyl chloride	ND	17	ug/L	5.0
m-Xylene & p-Xylene	ND	17	ug/L	8.3
o-Xylene	ND	17	ug/L	3.3
Xylenes (total)	ND	17	ug/L	8.3

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	101	(65 - 135)
Toluene-d8	86	(80 - 130)

BOE-C6-0049934

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-007 **Work Order #...:** HLA271AA **Matrix.....:** W
Date Sampled...: 09/21/05 17:02 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5269442
Prep Date.....: 09/26/05 **Analysis Date..:** 09/26/05
Prep Batch #...: 5269711 **Analysis Time..:** 19:32
Dilution Factor: 100
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1000	ug/L	200
Benzene	ND	100	ug/L	30
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	40
Bromoform	ND	100	ug/L	40
Bromomethane	ND	200	ug/L	100
2-Butanone	ND	500	ug/L	250
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	40
Carbon tetrachloride	ND	100	ug/L	30
Chlorobenzene	ND	100	ug/L	30
Dibromochloromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
Chloroethane	ND	200	ug/L	40
Chloroform	ND	100	ug/L	30
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	100
1,2-Dibromoethane (EDB)	ND	100	ug/L	30
Dibromomethane	ND	100	ug/L	40
1,2-Dichlorobenzene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
Dichlorodifluoromethane	ND	200	ug/L	40
1,1-Dichloroethane	ND	100	ug/L	20
1,2-Dichloroethane	ND	100	ug/L	40
1,1-Dichloroethene	**95 J**	**100**	**ug/L**	**30**
cis-1,2-Dichloroethene	**5000**	**100**	**ug/L**	**30**
trans-1,2-Dichloroethene	ND	100	ug/L	30
1,2-Dichloropropane	ND	100	ug/L	30
1,3-Dichloropropane	ND	100	ug/L	40
2,2-Dichloropropane	ND	100	ug/L	40
1,1-Dichloropropene	ND	100	ug/L	30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-007 **Work Order #...:** HLA271AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	100	ug/L	30
trans-1,3-Dichloropropene	ND	100	ug/L	50
Ethylbenzene	ND	100	ug/L	30
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	200
Isopropylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
Methylene chloride	ND	100	ug/L	30
4-Methyl-2-pentanone	ND	500	ug/L	200
Methyl tert-butyl ether	ND	100	ug/L	50
Naphthalene	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
Tetrachloroethene	ND	100	ug/L	40
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**7300**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	30
1,2,3-Trichloropropane	ND	100	ug/L	40
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
1,2,4-Trimethylbenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Vinyl chloride	ND	100	ug/L	30
m-Xylene & p-Xylene	ND	100	ug/L	50
o-Xylene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	96	(65 - 135)
Toluene-d8	86	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049936

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-008 **Work Order #...:** HLA291AA **Matrix.....:** W
Date Sampled...: 09/21/05 17:56 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5269442
Prep Date.....: 09/26/05 **Analysis Date..:** 09/26/05
Prep Batch #...: 5269711 **Analysis Time..:** 19:55
Dilution Factor: 50
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	500	ug/L	100
Benzene	ND	50	ug/L	15
Bromobenzene	ND	50	ug/L	15
Bromochloromethane	ND	50	ug/L	20
Bromoform	ND	50	ug/L	20
Bromomethane	ND	100	ug/L	50
2-Butanone	ND	250	ug/L	120
n-Butylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
Carbon disulfide	ND	50	ug/L	20
Carbon tetrachloride	ND	50	ug/L	15
Chlorobenzene	ND	50	ug/L	15
Dibromochloromethane	ND	50	ug/L	20
Bromodichloromethane	ND	50	ug/L	15
Chloroethane	ND	100	ug/L	20
Chloroform	ND	50	ug/L	15
Chloromethane	ND	100	ug/L	15
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	50
1,2-Dibromoethane (EDB)	ND	50	ug/L	15
Dibromomethane	ND	50	ug/L	20
1,2-Dichlorobenzene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
Dichlorodifluoromethane	ND	100	ug/L	20
1,1-Dichloroethane	ND	50	ug/L	10
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**50**	**50**	**ug/L**	**15**
cis-1,2-Dichloroethene	**3500**	**50**	**ug/L**	**15**
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,2-Dichloropropane	ND	50	ug/L	15
1,3-Dichloropropane	ND	50	ug/L	20
2,2-Dichloropropane	ND	50	ug/L	20
1,1-Dichloropropene	ND	50	ug/L	15

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG092105_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-008 **Work Order #...:** HLA291AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	50	ug/L	15
trans-1,3-Dichloropropene	ND	50	ug/L	25
Ethylbenzene	ND	50	ug/L	15
Hexachlorobutadiene	ND	50	ug/L	15
2-Hexanone	ND	250	ug/L	100
Isopropylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
Methylene chloride	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	100
Methyl tert-butyl ether	ND	50	ug/L	25
Naphthalene	ND	50	ug/L	25
n-Propylbenzene	ND	50	ug/L	20
Styrene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
Tetrachloroethene	ND	50	ug/L	20
Toluene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
1,2,4-Trichloro-benzene	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
1,1,2-Trichloroethane	ND	50	ug/L	15
Trichloroethene	**470**	**50**	**ug/L**	**15**
Trichlorofluoromethane	ND	100	ug/L	15
1,2,3-Trichloropropane	ND	50	ug/L	20
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
1,2,4-Trimethylbenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
Vinyl chloride	**240**	**50**	**ug/L**	**15**
m-Xylene & p-Xylene	ND	50	ug/L	25
o-Xylene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	25

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	87	(75 - 130)
1,2-Dichloroethane-d4	98	(65 - 135)
Toluene-d8	84	(80 - 130)

BOE-C6-0049938

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-009 **Work Order #...:** HLA3C1AA **Matrix.....:** W
Date Sampled...: 09/22/05 07:08 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5273371
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5273586 **Analysis Time..:** 10:31
Dilution Factor: 50
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	500	ug/L	100
Benzene	ND	50	ug/L	15
Bromobenzene	ND	50	ug/L	15
Bromochloromethane	ND	50	ug/L	20
Bromoform	ND	50	ug/L	20
Bromomethane	ND	100	ug/L	50
2-Butanone	ND	250	ug/L	120
n-Butylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
Carbon disulfide	ND	50	ug/L	20
Carbon tetrachloride	ND	50	ug/L	15
Chlorobenzene	ND	50	ug/L	15
Dibromochloromethane	ND	50	ug/L	20
Bromodichloromethane	ND	50	ug/L	15
Chloroethane	ND	100	ug/L	20
Chloroform	ND	50	ug/L	15
Chloromethane	ND	100	ug/L	15
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	50
1,2-Dibromoethane (EDB)	ND	50	ug/L	15
Dibromomethane	ND	50	ug/L	20
1,2-Dichlorobenzene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
Dichlorodifluoromethane	ND	100	ug/L	20
1,1-Dichloroethane	ND	50	ug/L	10
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**28 J**	**50**	**ug/L**	**15**
cis-1,2-Dichloroethene	**3400**	**50**	**ug/L**	**15**
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,2-Dichloropropane	ND	50	ug/L	15
1,3-Dichloropropane	ND	50	ug/L	20
2,2-Dichloropropane	ND	50	ug/L	20
1,1-Dichloropropene	ND	50	ug/L	15

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BOE-C6-0049939

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-009 **Work Order #...:** HLA3C1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	50	ug/L	15
trans-1,3-Dichloropropene	ND	50	ug/L	25
Ethylbenzene	ND	50	ug/L	15
Hexachlorobutadiene	ND	50	ug/L	15
2-Hexanone	ND	250	ug/L	100
Isopropylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
Methylene chloride	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	100
Methyl tert-butyl ether	ND	50	ug/L	25
Naphthalene	ND	50	ug/L	25
n-Propylbenzene	ND	50	ug/L	20
Styrene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
Tetrachloroethene	ND	50	ug/L	20
Toluene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
1,2,4-Trichloro-benzene	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
1,1,2-Trichloroethane	ND	50	ug/L	15
Trichloroethene	**340**	**50**	**ug/L**	**15**
Trichlorofluoromethane	ND	100	ug/L	15
1,2,3-Trichloropropane	ND	50	ug/L	20
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
1,2,4-Trimethylbenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
Vinyl chloride	ND	50	ug/L	15
m-Xylene & p-Xylene	ND	50	ug/L	25
o-Xylene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	25

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	98	(65 - 135)
Toluene-d8	84	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049940

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW001_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-010 **Work Order #...:** HLA3H1AA **Matrix.....:** W
Date Sampled...: 09/22/05 08:25 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5269442
Prep Date.....: 09/26/05 **Analysis Date..:** 09/26/05
Prep Batch #...: 5269711 **Analysis Time..:** 20:40
Dilution Factor: 20
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	200	ug/L	40
Benzene	ND	20	ug/L	6.0
Bromobenzene	ND	20	ug/L	6.0
Bromochloromethane	ND	20	ug/L	8.0
Bromoform	ND	20	ug/L	8.0
Bromomethane	ND	40	ug/L	20
2-Butanone	ND	100	ug/L	50
n-Butylbenzene	ND	20	ug/L	6.0
sec-Butylbenzene	ND	20	ug/L	6.0
tert-Butylbenzene	ND	20	ug/L	4.0
Carbon disulfide	ND	20	ug/L	8.0
Carbon tetrachloride	ND	20	ug/L	6.0
Chlorobenzene	ND	20	ug/L	6.0
Dibromochloromethane	ND	20	ug/L	8.0
Bromodichloromethane	ND	20	ug/L	6.0
Chloroethane	ND	40	ug/L	8.0
Chloroform	**9.5 J**	**20**	**ug/L**	**6.0**
Chloromethane	ND	40	ug/L	6.0
2-Chlorotoluene	ND	20	ug/L	6.0
4-Chlorotoluene	ND	20	ug/L	6.0
1,2-Dibromo-3-chloro-propane	ND	40	ug/L	20
1,2-Dibromoethane (EDB)	ND	20	ug/L	6.0
Dibromomethane	ND	20	ug/L	8.0
1,2-Dichlorobenzene	ND	20	ug/L	6.0
1,3-Dichlorobenzene	ND	20	ug/L	6.0
1,4-Dichlorobenzene	ND	20	ug/L	6.0
Dichlorodifluoromethane	ND	40	ug/L	8.0
1,1-Dichloroethane	**16 J**	**20**	**ug/L**	**4.0**
1,2-Dichloroethane	**10 J**	**20**	**ug/L**	**8.0**
1,1-Dichloroethene	**510**	**20**	**ug/L**	**6.0**
cis-1,2-Dichloroethene	**39**	**20**	**ug/L**	**6.0**
trans-1,2-Dichloroethene	**8.3 J**	**20**	**ug/L**	**6.0**
1,2-Dichloropropane	ND	20	ug/L	6.0
1,3-Dichloropropane	ND	20	ug/L	8.0
2,2-Dichloropropane	ND	20	ug/L	8.0
1,1-Dichloropropene	ND	20	ug/L	6.0

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BOE-C6-0049941

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW001_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-010 **Work Order #...:** HLA3H1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	20	ug/L	6.0
trans-1,3-Dichloropropene	ND	20	ug/L	10
Ethylbenzene	ND	20	ug/L	6.0
Hexachlorobutadiene	ND	20	ug/L	6.0
2-Hexanone	ND	100	ug/L	40
Isopropylbenzene	ND	20	ug/L	6.0
p-Isopropyltoluene	ND	20	ug/L	6.0
Methylene chloride	ND	20	ug/L	6.0
4-Methyl-2-pentanone	ND	100	ug/L	40
Methyl tert-butyl ether	ND	20	ug/L	10
Naphthalene	ND	20	ug/L	10
n-Propylbenzene	ND	20	ug/L	8.0
Styrene	ND	20	ug/L	6.0
1,1,1,2-Tetrachloroethane	ND	20	ug/L	6.0
1,1,2,2-Tetrachloroethane	ND	20	ug/L	8.0
Tetrachloroethene	ND	20	ug/L	8.0
Toluene	ND	20	ug/L	6.0
1,2,3-Trichlorobenzene	ND	20	ug/L	8.0
1,2,4-Trichloro-benzene	ND	20	ug/L	6.0
1,1,1-Trichloroethane	ND	20	ug/L	4.0
1,1,2-Trichloroethane	ND	20	ug/L	6.0
Trichloroethene	**1500**	**20**	**ug/L**	**6.0**
Trichlorofluoromethane	ND	40	ug/L	6.0
1,2,3-Trichloropropane	ND	20	ug/L	8.0
1,1,2-Trichlorotrifluoro-ethane	ND	20	ug/L	8.0
1,2,4-Trimethylbenzene	ND	20	ug/L	6.0
1,3,5-Trimethylbenzene	ND	20	ug/L	4.0
Vinyl chloride	ND	20	ug/L	6.0
m-Xylene & p-Xylene	ND	20	ug/L	10
o-Xylene	ND	20	ug/L	4.0
Xylenes (total)	ND	20	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	85	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-011 **Work Order #...:** HLA3L1AA **Matrix.....:** W
Date Sampled...: 09/22/05 09:45 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5271457
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5271735 **Analysis Time..:** 21:23
Dilution Factor: 50
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	500	ug/L	100
Benzene	ND	50	ug/L	15
Bromobenzene	ND	50	ug/L	15
Bromochloromethane	ND	50	ug/L	20
Bromoform	ND	50	ug/L	20
Bromomethane	ND	100	ug/L	50
2-Butanone	ND	250	ug/L	120
n-Butylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
Carbon disulfide	ND	50	ug/L	20
Carbon tetrachloride	ND	50	ug/L	15
Chlorobenzene	ND	50	ug/L	15
Dibromochloromethane	ND	50	ug/L	20
Bromodichloromethane	ND	50	ug/L	15
Chloroethane	ND	100	ug/L	20
Chloroform	**16 J**	**50**	**ug/L**	**15**
Chloromethane	ND	100	ug/L	15
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	50
1,2-Dibromoethane (EDB)	ND	50	ug/L	15
Dibromomethane	ND	50	ug/L	20
1,2-Dichlorobenzene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
Dichlorodifluoromethane	ND	100	ug/L	20
1,1-Dichloroethane	ND	50	ug/L	10
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**59**	**50**	**ug/L**	**15**
cis-1,2-Dichloroethene	**1700**	**50**	**ug/L**	**15**
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,2-Dichloropropane	ND	50	ug/L	15
1,3-Dichloropropane	ND	50	ug/L	20
2,2-Dichloropropane	ND	50	ug/L	20
1,1-Dichloropropene	ND	50	ug/L	15

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-011 **Work Order #...:** HLA3L1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	50	ug/L	15
trans-1,3-Dichloropropene	ND	50	ug/L	25
Ethylbenzene	ND	50	ug/L	15
Hexachlorobutadiene	ND	50	ug/L	15
2-Hexanone	ND	250	ug/L	100
Isopropylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
Methylene chloride	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	100
Methyl tert-butyl ether	ND	50	ug/L	25
Naphthalene	ND	50	ug/L	25
n-Propylbenzene	ND	50	ug/L	20
Styrene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
Tetrachloroethene	ND	50	ug/L	20
Toluene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
1,2,4-Trichloro-benzene	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
1,1,2-Trichloroethane	ND	50	ug/L	15
Trichloroethene	**3900**	**50**	**ug/L**	**15**
Trichlorofluoromethane	ND	100	ug/L	15
1,2,3-Trichloropropane	ND	50	ug/L	20
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
1,2,4-Trimethylbenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
Vinyl chloride	ND	50	ug/L	15
m-Xylene & p-Xylene	ND	50	ug/L	25
o-Xylene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	25

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	86	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	92	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049944

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW0026_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-012 **Work Order #...:** HLA3P1AA **Matrix.....:** W
Date Sampled...: 09/22/05 10:42 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5271457
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5271735 **Analysis Time..:** 21:00
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.0
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.40
Bromoform	ND	1.0	ug/L	0.40
Bromomethane	ND	2.0	ug/L	1.0
2-Butanone	ND	5.0	ug/L	2.5
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.40
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.40
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.30
Dibromomethane	ND	1.0	ug/L	0.40
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
1,1-Dichloroethane	**0.44 J**	**1.0**	**ug/L**	**0.20**
1,2-Dichloroethane	ND	1.0	ug/L	0.40
1,1-Dichloroethene	**18**	**1.0**	**ug/L**	**0.30**
cis-1,2-Dichloroethene	**91**	**1.0**	**ug/L**	**0.30**
trans-1,2-Dichloroethene	**1.1**	**1.0**	**ug/L**	**0.30**
1,2-Dichloropropane	ND	1.0	ug/L	0.30
1,3-Dichloropropane	ND	1.0	ug/L	0.40
2,2-Dichloropropane	ND	1.0	ug/L	0.40
1,1-Dichloropropene	ND	1.0	ug/L	0.30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW0026_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-012 **Work Order #...:** HLA3P1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	2.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Naphthalene	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	**24**	**1.0**	**ug/L**	**0.30**
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	1.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	85	(75 - 130)
1,2-Dichloroethane-d4	87	(65 - 135)
Toluene-d8	91	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049946

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW002_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-013 **Work Order #...:** HLA3R1AA **Matrix.....:** W
Date Sampled...: 09/22/05 12:08 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5273371
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5273586 **Analysis Time..:** 13:20
Dilution Factor: 100
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1000	ug/L	200
Benzene	**42 J**	**100**	**ug/L**	**30**
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	40
Bromoform	ND	100	ug/L	40
Bromomethane	ND	200	ug/L	100
2-Butanone	ND	500	ug/L	250
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	40
Carbon tetrachloride	ND	100	ug/L	30
Chlorobenzene	**7900**	**100**	**ug/L**	**30**
Dibromochloromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
Chloroethane	ND	200	ug/L	40
Chloroform	ND	100	ug/L	30
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	100
1,2-Dibromoethane (EDB)	ND	100	ug/L	30
Dibromomethane	ND	100	ug/L	40
1,2-Dichlorobenzene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
Dichlorodifluoromethane	ND	200	ug/L	40
1,1-Dichloroethane	ND	100	ug/L	20
1,2-Dichloroethane	ND	100	ug/L	40
1,1-Dichloroethene	ND	100	ug/L	30
cis-1,2-Dichloroethene	ND	100	ug/L	30
trans-1,2-Dichloroethene	ND	100	ug/L	30
1,2-Dichloropropane	ND	100	ug/L	30
1,3-Dichloropropane	ND	100	ug/L	40
2,2-Dichloropropane	ND	100	ug/L	40
1,1-Dichloropropene	ND	100	ug/L	30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW002_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-013 **Work Order #...:** HLA3R1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	100	ug/L	30
trans-1,3-Dichloropropene	ND	100	ug/L	50
Ethylbenzene	ND	100	ug/L	30
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	200
Isopropylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
Methylene chloride	ND	100	ug/L	30
4-Methyl-2-pentanone	ND	500	ug/L	200
Methyl tert-butyl ether	ND	100	ug/L	50
Naphthalene	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
Tetrachloroethene	ND	100	ug/L	40
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**360**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	30
1,2,3-Trichloropropane	ND	100	ug/L	40
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
1,2,4-Trimethylbenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Vinyl chloride	ND	100	ug/L	30
m-Xylene & p-Xylene	ND	100	ug/L	50
o-Xylene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	85	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
Toluene-d8	91	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW0001_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-014 **Work Order #...:** HLA3W1AA **Matrix.....:** W
Date Sampled...: 09/22/05 13:20 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5273371
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5273586 **Analysis Time..:** 13:42
Dilution Factor: 125
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1200	ug/L	250
Benzene	ND	120	ug/L	38
Bromobenzene	ND	120	ug/L	38
Bromochloromethane	ND	120	ug/L	50
Bromoform	ND	120	ug/L	50
Bromomethane	ND	250	ug/L	120
2-Butanone	ND	620	ug/L	310
n-Butylbenzene	ND	120	ug/L	38
sec-Butylbenzene	ND	120	ug/L	38
tert-Butylbenzene	ND	120	ug/L	25
Carbon disulfide	ND	120	ug/L	50
Carbon tetrachloride	ND	120	ug/L	38
Chlorobenzene	**11000**	**120**	**ug/L**	**38**
Dibromochloromethane	ND	120	ug/L	50
Bromodichloromethane	ND	120	ug/L	38
Chloroethane	ND	250	ug/L	50
Chloroform	ND	120	ug/L	38
Chloromethane	ND	250	ug/L	38
2-Chlorotoluene	ND	120	ug/L	38
4-Chlorotoluene	ND	120	ug/L	38
1,2-Dibromo-3-chloro-propane	ND	250	ug/L	120
1,2-Dibromoethane (EDB)	ND	120	ug/L	38
Dibromomethane	ND	120	ug/L	50
1,2-Dichlorobenzene	ND	120	ug/L	38
1,3-Dichlorobenzene	ND	120	ug/L	38
1,4-Dichlorobenzene	ND	120	ug/L	38
Dichlorodifluoromethane	ND	250	ug/L	50
1,1-Dichloroethane	ND	120	ug/L	25
1,2-Dichloroethane	ND	120	ug/L	50
1,1-Dichloroethene	ND	120	ug/L	38
cis-1,2-Dichloroethene	ND	120	ug/L	38
trans-1,2-Dichloroethene	ND	120	ug/L	38
1,2-Dichloropropane	ND	120	ug/L	38
1,3-Dichloropropane	ND	120	ug/L	50
2,2-Dichloropropane	ND	120	ug/L	50
1,1-Dichloropropene	ND	120	ug/L	38

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW0001_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-014 **Work Order #...:** HLA3W1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	120	ug/L	38
trans-1,3-Dichloropropene	ND	120	ug/L	62
Ethylbenzene	ND	120	ug/L	38
Hexachlorobutadiene	ND	120	ug/L	38
2-Hexanone	ND	620	ug/L	250
Isopropylbenzene	ND	120	ug/L	38
p-Isopropyltoluene	ND	120	ug/L	38
Methylene chloride	ND	120	ug/L	38
4-Methyl-2-pentanone	ND	620	ug/L	250
Methyl tert-butyl ether	ND	120	ug/L	62
Naphthalene	ND	120	ug/L	62
n-Propylbenzene	ND	120	ug/L	50
Styrene	ND	120	ug/L	38
1,1,1,2-Tetrachloroethane	ND	120	ug/L	38
1,1,2,2-Tetrachloroethane	ND	120	ug/L	50
Tetrachloroethene	ND	120	ug/L	50
Toluene	ND	120	ug/L	38
1,2,3-Trichlorobenzene	ND	120	ug/L	50
1,2,4-Trichloro-benzene	ND	120	ug/L	38
1,1,1-Trichloroethane	ND	120	ug/L	25
1,1,2-Trichloroethane	ND	120	ug/L	38
Trichloroethene	ND	120	ug/L	38
Trichlorofluoromethane	ND	250	ug/L	38
1,2,3-Trichloropropane	ND	120	ug/L	50
1,1,2-Trichlorotrifluoro-ethane	ND	120	ug/L	50
1,2,4-Trimethylbenzene	ND	120	ug/L	38
1,3,5-Trimethylbenzene	ND	120	ug/L	25
Vinyl chloride	ND	120	ug/L	38
m-Xylene & p-Xylene	ND	120	ug/L	62
o-Xylene	ND	120	ug/L	25
Xylenes (total)	ND	120	ug/L	62

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	86	(75 - 130)
1,2-Dichloroethane-d4	93	(65 - 135)
Toluene-d8	89	(80 - 130)

BOE-C6-0049950

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW0002_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-015 **Work Order #...:** HLA311AA **Matrix.....:** W
Date Sampled...: 09/22/05 15:00 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5273371
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5273586 **Analysis Time..:** 10:03
Dilution Factor: 100
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1000	ug/L	200
Benzene	ND	100	ug/L	30
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	40
Bromoform	ND	100	ug/L	40
Bromomethane	ND	200	ug/L	100
2-Butanone	ND	500	ug/L	250
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	40
Carbon tetrachloride	ND	100	ug/L	30
Chlorobenzene	ND	100	ug/L	30
Dibromochloromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
Chloroethane	ND	200	ug/L	40
Chloroform	ND	100	ug/L	30
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	100
1,2-Dibromoethane (EDB)	ND	100	ug/L	30
Dibromomethane	ND	100	ug/L	40
1,2-Dichlorobenzene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
Dichlorodifluoromethane	ND	200	ug/L	40
1,1-Dichloroethane	ND	100	ug/L	20
1,2-Dichloroethane	ND	100	ug/L	40
1,1-Dichloroethene	**32 J**	**100**	**ug/L**	**30**
cis-1,2-Dichloroethene	**5800**	**100**	**ug/L**	**30**
trans-1,2-Dichloroethene	ND	100	ug/L	30
1,2-Dichloropropane	ND	100	ug/L	30
1,3-Dichloropropane	ND	100	ug/L	40
2,2-Dichloropropane	ND	100	ug/L	40
1,1-Dichloropropene	ND	100	ug/L	30

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BOE-C6-0049951

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW0002_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-015 **Work Order #...:** HLA311AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	100	ug/L	30
trans-1,3-Dichloropropene	ND	100	ug/L	50
Ethylbenzene	ND	100	ug/L	30
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	200
Isopropylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
Methylene chloride	ND	100	ug/L	30
4-Methyl-2-pentanone	ND	500	ug/L	200
Methyl tert-butyl ether	ND	100	ug/L	50
Naphthalene	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
Tetrachloroethene	ND	100	ug/L	40
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**100**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	30
1,2,3-Trichloropropane	ND	100	ug/L	40
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
1,2,4-Trimethylbenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Vinyl chloride	ND	100	ug/L	30
m-Xylene & p-Xylene	ND	100	ug/L	50
o-Xylene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	97	(65 - 135)
Toluene-d8	84	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049952

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-016 **Work Order #...:** HLA341AA **Matrix.....:** W
Date Sampled...: 09/22/05 17:10 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5271457
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5271735 **Analysis Time..:** 22:54
Dilution Factor: 2.5
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**69**	**50**	**ug/L**	**10**
Benzene	ND	5.0	ug/L	1.5
Bromobenzene	ND	5.0	ug/L	1.5
Bromochloromethane	ND	5.0	ug/L	2.0
Bromoform	ND	5.0	ug/L	2.0
Bromomethane	ND	10	ug/L	5.0
2-Butanone	**90**	**25**	**ug/L**	**12**
n-Butylbenzene	ND	5.0	ug/L	1.5
sec-Butylbenzene	ND	5.0	ug/L	1.5
tert-Butylbenzene	ND	5.0	ug/L	1.0
Carbon disulfide	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	5.0	ug/L	1.5
Chlorobenzene	**89**	**5.0**	**ug/L**	**1.5**
Dibromochloromethane	ND	5.0	ug/L	2.0
Bromodichloromethane	ND	5.0	ug/L	1.5
Chloroethane	ND	10	ug/L	2.0
Chloroform	**4.2 J**	**5.0**	**ug/L**	**1.5**
Chloromethane	ND	10	ug/L	1.5
2-Chlorotoluene	ND	5.0	ug/L	1.5
4-Chlorotoluene	ND	5.0	ug/L	1.5
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	5.0
1,2-Dibromoethane (EDB)	ND	5.0	ug/L	1.5
Dibromomethane	ND	5.0	ug/L	2.0
1,2-Dichlorobenzene	ND	5.0	ug/L	1.5
1,3-Dichlorobenzene	ND	5.0	ug/L	1.5
1,4-Dichlorobenzene	ND	5.0	ug/L	1.5
Dichlorodifluoromethane	ND	10	ug/L	2.0
1,1-Dichloroethane	ND	5.0	ug/L	1.0
1,2-Dichloroethane	ND	5.0	ug/L	2.0
1,1-Dichloroethene	ND	5.0	ug/L	1.5
cis-1,2-Dichloroethene	**30**	**5.0**	**ug/L**	**1.5**
trans-1,2-Dichloroethene	**2.5 J**	**5.0**	**ug/L**	**1.5**
1,2-Dichloropropane	ND	5.0	ug/L	1.5
1,3-Dichloropropane	ND	5.0	ug/L	2.0
2,2-Dichloropropane	ND	5.0	ug/L	2.0
1,1-Dichloropropene	ND	5.0	ug/L	1.5

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BOE-C6-0049953

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-016 **Work Order #...:** HLA341AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	5.0	ug/L	1.5
trans-1,3-Dichloropropene	ND	5.0	ug/L	2.5
Ethylbenzene	ND	5.0	ug/L	1.5
Hexachlorobutadiene	ND	5.0	ug/L	1.5
2-Hexanone	ND	25	ug/L	10
Isopropylbenzene	ND	5.0	ug/L	1.5
p-Isopropyltoluene	ND	5.0	ug/L	1.5
Methylene chloride	ND	5.0	ug/L	1.5
4-Methyl-2-pentanone	ND	25	ug/L	10
Methyl tert-butyl ether	ND	5.0	ug/L	2.5
Naphthalene	ND	5.0	ug/L	2.5
n-Propylbenzene	ND	5.0	ug/L	2.0
Styrene	ND	5.0	ug/L	1.5
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	1.5
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	2.0
Tetrachloroethene	ND	5.0	ug/L	2.0
Toluene	ND	5.0	ug/L	1.5
1,2,3-Trichlorobenzene	ND	5.0	ug/L	2.0
1,2,4-Trichloro-benzene	ND	5.0	ug/L	1.5
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
1,1,2-Trichloroethane	ND	5.0	ug/L	1.5
Trichloroethene	**23**	**5.0**	**ug/L**	**1.5**
Trichlorofluoromethane	ND	10	ug/L	1.5
1,2,3-Trichloropropane	ND	5.0	ug/L	2.0
1,1,2-Trichlorotrifluoro-ethane	ND	5.0	ug/L	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/L	1.5
1,3,5-Trimethylbenzene	ND	5.0	ug/L	1.0
Vinyl chloride	**120**	**5.0**	**ug/L**	**1.5**
m-Xylene & p-Xylene	ND	5.0	ug/L	2.5
o-Xylene	ND	5.0	ug/L	1.0
Xylenes (total)	ND	5.0	ug/L	2.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	84	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
Toluene-d8	90	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0049954

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-017 **Work Order #...:** HLA361AA **Matrix.....:** W
Date Sampled...: 09/22/05 18:35 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5273371
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5273586 **Analysis Time..:** 11:17
Dilution Factor: 100
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1000	ug/L	200
Benzene	ND	100	ug/L	30
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	40
Bromoform	ND	100	ug/L	40
Bromomethane	ND	200	ug/L	100
2-Butanone	ND	500	ug/L	250
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	40
Carbon tetrachloride	ND	100	ug/L	30
Chlorobenzene	ND	100	ug/L	30
Dibromochloromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
Chloroethane	ND	200	ug/L	40
Chloroform	ND	100	ug/L	30
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	100
1,2-Dibromoethane (EDB)	ND	100	ug/L	30
Dibromomethane	ND	100	ug/L	40
1,2-Dichlorobenzene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
Dichlorodifluoromethane	ND	200	ug/L	40
1,1-Dichloroethane	ND	100	ug/L	20
1,2-Dichloroethane	ND	100	ug/L	40
1,1-Dichloroethene	**33 J**	**100**	**ug/L**	**30**
cis-1,2-Dichloroethene	**7600**	**100**	**ug/L**	**30**
trans-1,2-Dichloroethene	ND	100	ug/L	30
1,2-Dichloropropane	ND	100	ug/L	30
1,3-Dichloropropane	ND	100	ug/L	40
2,2-Dichloropropane	ND	100	ug/L	40
1,1-Dichloropropene	ND	100	ug/L	30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG092205_01

GC/MS Volatiles

Lot-Sample #...: E5I230414-017 **Work Order #...:** HLA361AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	100	ug/L	30
trans-1,3-Dichloropropene	ND	100	ug/L	50
Ethylbenzene	ND	100	ug/L	30
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	200
Isopropylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
Methylene chloride	ND	100	ug/L	30
4-Methyl-2-pentanone	ND	500	ug/L	200
Methyl tert-butyl ether	ND	100	ug/L	50
Naphthalene	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
Tetrachloroethene	ND	100	ug/L	40
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**36 J**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	30
1,2,3-Trichloropropane	ND	100	ug/L	40
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
1,2,4-Trimethylbenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Vinyl chloride	ND	100	ug/L	30
m-Xylene & p-Xylene	ND	100	ug/L	50
o-Xylene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	101	(65 - 135)
Toluene-d8	83	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

SEVERN TRENT STL

QA/QC

BOE-C6-0049957

QC DATA ASSOCIATION SUMMARY

E5I230414

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	W	SW846 8260B		5269711	5269442
002	W	SW846 8260B		5269711	5269442
003	W	SW846 8260B		5269711	5269442
004	W	SW846 8260B		5273586	5273371
005	W	SW846 8260B		5269711	5269442
006	W	SW846 8260B		5269711	5269442
007	W	SW846 8260B		5269711	5269442
008	W	SW846 8260B		5269711	5269442
009	W	SW846 8260B		5273586	5273371
010	W	SW846 8260B		5269711	5269442
011	W	SW846 8260B		5271735	5271457
012	W	SW846 8260B		5271735	5271457
013	W	SW846 8260B		5273586	5273371
014	W	SW846 8260B		5273586	5273371
015	W	SW846 8260B		5273586	5273371
016	W	SW846 8260B		5271735	5271457
017	W	SW846 8260B		5273586	5273371

BOE-C6-0049958

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLFFQ1AA **Matrix.....:** WATER
MB Lot-Sample #: E5I260000-711

Prep Date.....: 09/26/05 **Analysis Time..:** 13:57
Analysis Date..: 09/26/05 **Prep Batch #...:** 5269711 **Instrument ID..:** MSQ
Dilution Factor: 1

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLFFQ1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	84	(65 - 135)
Toluene-d8	90	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BOE-C6-0049960

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLLP21AA **Matrix.....:** WATER
MB Lot-Sample #: E5I280000-735

Prep Date.....: 09/27/05 **Analysis Time..:** 19:59
Analysis Date..: 09/27/05 **Prep Batch #...:** 5271735 **Instrument ID..:** MSQ
Dilution Factor: 1

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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BOE-C6-0049961

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLLP21AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	84	(75 - 130)
1,2-Dichloroethane-d4	87	(65 - 135)
Toluene-d8	92	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BOE-C6-0049962

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLVDL1AA **Matrix.....:** WATER
MB Lot-Sample #: E5I300000-586

Prep Date.....: 09/27/05 **Analysis Time..:** 08:31
Analysis Date..: 09/27/05 **Prep Batch #...:** 5273586 **Instrument ID..:** MSQ
Dilution Factor: 1

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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BOE-C6-0049963

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLVDL1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
Toluene-d8	86	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BOE-C6-0049964

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLFFQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I260000-711
Prep Date.....: 09/26/05 **Analysis Date..:** 09/26/05
Prep Batch #...: 5269711 **Analysis Time..:** 13:12
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**97**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**92**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**122**	**(65 - 135)**	**SW846 8260B**
Toluene	**91**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**100**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	82	(65 - 135)
Toluene-d8	92	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0049965

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLFFQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I260000-711
Prep Date.....: 09/26/05 **Analysis Date..:** 09/26/05
Prep Batch #...: 5269711 **Analysis Time..:** 13:12
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.68**	**ug/L**	**97**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.19**	**ug/L**	**92**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**12.2**	**ug/L**	**122**	**SW846 8260B**
Toluene	**10.0**	**9.06**	**ug/L**	**91**	**SW846 8260B**
Trichloroethene	**10.0**	**9.99**	**ug/L**	**100**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	82	(65 - 135)
Toluene-d8	92	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0049966

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLLP21AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I280000-735
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5271735 **Analysis Time..:** 19:37
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**92**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**94**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**120**	**(65 - 135)**	**SW846 8260B**
Toluene	**92**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**93**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	82	(65 - 135)
Toluene-d8	93	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0049967

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLLP21AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I280000-735
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5271735 **Analysis Time..:** 19:37
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.23**	**ug/L**	**92**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.36**	**ug/L**	**94**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**12.0**	**ug/L**	**120**	**SW846 8260B**
Toluene	**10.0**	**9.25**	**ug/L**	**92**	**SW846 8260B**
Trichloroethene	**10.0**	**9.27**	**ug/L**	**93**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	82	(65 - 135)
Toluene-d8	93	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0049968

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLVDL1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I300000-586
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5273586 **Analysis Time..:** 08:08
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**102**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**89**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**122**	**(65 - 135)**	**SW846 8260B**
Toluene	**86**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**100**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	83	(65 - 135)
Toluene-d8	87	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0049969

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLVDL1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I300000-586
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5273586 **Analysis Time..:** 08:08
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**10.2**	**ug/L**	**102**	**SW846 8260B**
Chlorobenzene	**10.0**	**8.92**	**ug/L**	**89**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**12.2**	**ug/L**	**122**	**SW846 8260B**
Toluene	**10.0**	**8.59**	**ug/L**	**86**	**SW846 8260B**
Trichloroethene	**10.0**	**10.0**	**ug/L**	**100**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	83	(65 - 135)
Toluene-d8	87	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0049970

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLA2J1AC-MS **Matrix.....:** W
MS Lot-Sample #: E5I230414-002 HLA2J1AD-MSD
Date Sampled...: 09/21/05 11:25 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5269442
Prep Date.....: 09/26/05 **Analysis Date..:** 09/26/05
Prep Batch #...: 5269711 **Analysis Time..:** 17:26
Dilution Factor: 312.5 **Analyst ID.....:** 015590 **Instrument ID..:** MSQ

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**105**	**(75 - 125)**			**SW846 8260B**
	109	**(75 - 125)**	**3.7**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**91**	**(75 - 125)**			**SW846 8260B**
	92	**(75 - 125)**	**1.3**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**123**	**(65 - 135)**			**SW846 8260B**
	145 a	**(65 - 135)**	**16**	**(0-25)**	**SW846 8260B**
Toluene	**88**	**(75 - 125)**			**SW846 8260B**
	90	**(75 - 125)**	**2.6**	**(0-25)**	**SW846 8260B**
Trichloroethene	**119**	**(75 - 135)**			**SW846 8260B**
	135	**(75 - 135)**	**2.6**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
	95	(75 - 130)
1,2-Dichloroethane-d4	94	(65 - 135)
	94	(65 - 135)
Toluene-d8	87	(80 - 130)
	86	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLA2J1AC-MS **Matrix.....:** W
MS Lot-Sample #: E5I230414-002 HLA2J1AD-MSD
Date Sampled...: 09/21/05 11:25 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5269442
Prep Date.....: 09/26/05 **Analysis Date..:** 09/26/05
Prep Batch #...: 5269711 **Analysis Time..:** 17:26
Dilution Factor: 312.5 **Analyst ID.....:** 015590 **Instrument ID..:** MSQ

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**3120**	**3290**	**ug/L**	**105**		**SW846 8260B**
	ND	**3120**	**3410**	**ug/L**	**109**	**3.7**	**SW846 8260B**
Chlorobenzene	**ND**	**3120**	**2830**	**ug/L**	**91**		**SW846 8260B**
	ND	**3120**	**2870**	**ug/L**	**92**	**1.3**	**SW846 8260B**
1,1-Dichloroethene	**100**	**3120**	**3940**	**ug/L**	**123**		**SW846 8260B**
	100	**3120**	**4620**	**ug/L**	**145 a**	**16**	**SW846 8260B**
Toluene	**ND**	**3120**	**2740**	**ug/L**	**88**		**SW846 8260B**
	ND	**3120**	**2810**	**ug/L**	**90**	**2.6**	**SW846 8260B**
Trichloroethene	**16000**	**3120**	**19300**	**ug/L**	**119**		**SW846 8260B**
	16000	**3120**	**19800**	**ug/L**	**135**	**2.6**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
	95	(75 - 130)
1,2-Dichloroethane-d4	94	(65 - 135)
	94	(65 - 135)
Toluene-d8	87	(80 - 130)
	86	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLA3L1AC-MS **Matrix.....:** W
MS Lot-Sample #: E5I230414-011 HLA3L1AD-MSD
Date Sampled...: 09/22/05 09:45 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5271457
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5271735 **Analysis Time..:** 23:17
Dilution Factor: 50 **Analyst ID.....:** 015590 **Instrument ID..:** MSQ

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**89**	**(75 - 125)**			**SW846 8260B**
	90	**(75 - 125)**	**1.8**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**88**	**(75 - 125)**			**SW846 8260B**
	91	**(75 - 125)**	**3.2**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**110**	**(65 - 135)**			**SW846 8260B**
	118	**(65 - 135)**	**6.3**	**(0-25)**	**SW846 8260B**
Toluene	**87**	**(75 - 125)**			**SW846 8260B**
	90	**(75 - 125)**	**3.6**	**(0-25)**	**SW846 8260B**
Trichloroethene	**0.0 MSB**	**(75 - 135)**			**SW846 8260B**
	0.0 MSB	**(75 - 135)**	**0.0**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
	92	(75 - 130)
1,2-Dichloroethane-d4	87	(65 - 135)
	85	(65 - 135)
Toluene-d8	91	(80 - 130)
	91	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

BOE-C6-0049973

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLA3L1AC-MS **Matrix.....:** W
MS Lot-Sample #: E5I230414-011 HLA3L1AD-MSD
Date Sampled...: 09/22/05 09:45 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5271457
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5271735 **Analysis Time..:** 23:17
Dilution Factor: 50 **Analyst ID.....:** 015590 **Instrument ID..:** MSQ

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**500**	**443**	**ug/L**	**89**		**SW846 8260B**
	ND	**500**	**451**	**ug/L**	**90**	**1.8**	**SW846 8260B**
Chlorobenzene	**ND**	**500**	**442**	**ug/L**	**88**		**SW846 8260B**
	ND	**500**	**457**	**ug/L**	**91**	**3.2**	**SW846 8260B**
1,1-Dichloroethene	**59**	**500**	**609**	**ug/L**	**110**		**SW846 8260B**
	59	**500**	**649**	**ug/L**	**118**	**6.3**	**SW846 8260B**
Toluene	**ND**	**500**	**434**	**ug/L**	**87**		**SW846 8260B**
	ND	**500**	**450**	**ug/L**	**90**	**3.6**	**SW846 8260B**
Trichloroethene	**3900**	**500**		**ug/L**	**0.0**		**SW846 8260B**
	Qualifiers: MSB						
	3900	**500**		**ug/L**	**0.0**	**0.0**	**SW846 8260B**
	Qualifiers: MSB						

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
	92	(75 - 130)
1,2-Dichloroethane-d4	87	(65 - 135)
	85	(65 - 135)
Toluene-d8	91	(80 - 130)
	91	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLA361AC-MS **Matrix.....:** W
MS Lot-Sample #: E5I230414-017 HLA361AD-MSD
Date Sampled...: 09/22/05 18:35 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5273371
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5273586 **Analysis Time..:** 11:48
Dilution Factor: 100 **Analyst ID.....:** 015590 **Instrument ID..:** MSQ

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**89**	**(75 - 125)**			**SW846 8260B**
	87	**(75 - 125)**	**2.7**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**92**	**(75 - 125)**			**SW846 8260B**
	91	**(75 - 125)**	**1.2**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**100**	**(65 - 135)**			**SW846 8260B**
	103	**(65 - 135)**	**3.1**	**(0-25)**	**SW846 8260B**
Toluene	**86**	**(75 - 125)**			**SW846 8260B**
	85	**(75 - 125)**	**1.4**	**(0-25)**	**SW846 8260B**
Trichloroethene	**85**	**(75 - 135)**			**SW846 8260B**
	83	**(75 - 135)**	**2.1**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
	93	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
	91	(65 - 135)
Toluene-d8	91	(80 - 130)
	93	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0049975

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I230414 **Work Order #...:** HLA361AC-MS **Matrix.....:** W
MS Lot-Sample #: E5I230414-017 HLA361AD-MSD
Date Sampled...: 09/22/05 18:35 **Date Received..:** 09/23/05 16:00 **MS Run #.....:** 5273371
Prep Date.....: 09/27/05 **Analysis Date..:** 09/27/05
Prep Batch #...: 5273586 **Analysis Time..:** 11:48
Dilution Factor: 100 **Analyst ID.....:** 015590 **Instrument ID..:** MSQ

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**1000**	**889**	**ug/L**	**89**		**SW846 8260B**
	ND	**1000**	**865**	**ug/L**	**87**	**2.7**	**SW846 8260B**
Chlorobenzene	**ND**	**1000**	**917**	**ug/L**	**92**		**SW846 8260B**
	ND	**1000**	**905**	**ug/L**	**91**	**1.2**	**SW846 8260B**
1,1-Dichloroethene	**33**	**1000**	**1030**	**ug/L**	**100**		**SW846 8260B**
	33	**1000**	**1070**	**ug/L**	**103**	**3.1**	**SW846 8260B**
Toluene	**ND**	**1000**	**863**	**ug/L**	**86**		**SW846 8260B**
	ND	**1000**	**851**	**ug/L**	**85**	**1.4**	**SW846 8260B**
Trichloroethene	**36**	**1000**	**883**	**ug/L**	**85**		**SW846 8260B**
	36	**1000**	**865**	**ug/L**	**83**	**2.1**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
	93	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
	91	(65 - 135)
Toluene-d8	91	(80 - 130)
	93	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0049976