HALEY & ALDRICH

BOE-C6-0104656

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UNDERGROUND
ENGINEERING &
ENVIRONMENTAL
SOLUTIONS

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Letter of Transmittal

Date	9 December 2005
File Number	28882-610
From	Mark Thomson
To	Boeing Realty Corporation 4900 Conant, Building 1 Long Beach, California 90808
Attention	Mario Stavale
Subject	Former C-6 Facility Documents

Copies	Date	Description
1	12/8/2005	Well Completion Report Groundwater Monitoring Wells MWG001, MWG002, MWG003, MWG004, and MWC009

Transmitted via ☐ First class mail ☒ Overnight express ☐ Hand delivery ☐ Other

Remarks

HALEY & ALDRICH

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

WELL COMPLETION REPORT

GROUNDWATER MONITORING WELLS MWG001, MWG002, MWG003, MWG004, AND MWC009

To: **Ms. Stephanie Sibbett & Mr. Brian Mossman**
Boeing Realty Corporation
4900 E. Conant Street, Building 1
Long Beach, California 90808

From: **Haley & Aldrich, Inc.**

Date: **8 December 2005**

Subject: **Well Completion Report, Groundwater Monitoring Wells MWG001, MWG002, MWG003, MWG004, and MWC009, Boeing Realty Corporation, Former C-6 Facility, Los Angeles, California**

Haley & Aldrich, Inc. (Haley & Aldrich) has prepared this Well Completion Report to summarize activities associated with installing five groundwater monitoring wells at Boeing Realty Corporation's (BRC's) Former C-6 Facility in Los Angeles, California (Site). The Site location is shown on Figure 1.

BACKGROUND

The U.S. Environmental Protection Agency (USEPA) is the lead agency for investigation and remediation of the Montrose and Del Amo sites located to the east and south of the Former C-6 Facility. Groundwater quality data collected from wells associated with these two sites indicate the presence of trichloroethene (TCE) and other volatile organic compounds (VOCs) in the Gage Aquifer. Additionally, other facilities located east of the Site have reported VOCs in the groundwater. The California Regional Water Quality Control Board – Los Angeles Region (LARWQCB) is the oversight agency for these facilities. TCE has also been detected in groundwater at the former International Light Metals (ILM) located to the west of the Site. The California Department of Toxic Substances Control (DTSC) is the oversight agency for this facility. The USEPA and LARWQCB have been working together to further characterize the TCE distribution in the Gage Aquifer in the Site vicinity.

In a letter dated 8 March 2005, the LARWQCB issued a California Water Code Section 13267 Order to Investigate (the Order) to BRC to install two groundwater monitoring wells in the Gage Aquifer at the Site. In addition to the installation of the two wells, the LARWQCB requested that the groundwater quality data for well MWC009 be submitted. Well MWC009 was previously proposed to be installed in the C-Sand at the Site by BRC in the *Site-Wide Groundwater Monitoring Work Plan* prepared by Haley & Aldrich (Haley & Aldrich, 2003). Therefore, two Gage Aquifer wells and one C-Sand well were installed and a preliminary data package and addendum were prepared by Haley & Aldrich in June 2005 and submitted to the LARWQCB (Haley & Aldrich, 2005a, b). The Order also required that a well

submitted to the LARWQCB (Haley & Aldrich, 2005a, b). The Order also required that a well completion report be submitted. Based on the preliminary data from wells MWG001 and MWG002, BRC recommended the installation of two additional groundwater monitoring wells in the Gage Aquifer (MWG003 and MWG004) and the preparation of a final well completion report for all five wells upon receipt of groundwater quality data from MWG003 and MWG004. The LARWQCB concurred with this recommendation in a letter dated 7 July 2005 (LARWQCB, 2005c).

The following sections describe the pre-field activities, well installation activities, groundwater sampling activities, and groundwater quality results for wells MWG001 through MWG004 and MWC009.

PRE-FIELD ACTIVITIES

Work Plans

Well installation procedures were described in a *Work Plan Groundwater Monitoring Well Installation* (Work Plan) prepared by Rubicon Engineering on 9 March 2005 (Rubicon Engineering, 2005a). The Work Plan was approved by the LARWQCB in a letter dated 22 March 2005 (LARWQCB, 2005b). No deviations from the work plan were noted during field activities; however, additional soil samples were collected during well installation activities for geotechnical analyses.

After installation, the wells were sampled in accordance with the *Groundwater Monitoring Work Plan 2005* (Groundwater Work Plan) prepared by Haley & Aldrich (Haley & Aldrich, 2004). This work plan was approved by the LARWQCB in a letter dated 22 December 2004 (LARWQCB, 2004).

Well Installation Permits

Prior to well installation activities, groundwater monitoring well construction permits were obtained from the County of Los Angeles Department of Health Services. Copies of the well permits are included in Appendix A.

Utility Clearance

Underground Service Alert (USA) was notified prior to drilling activities. USA confirmed the activities and identified utility laterals entering the Site. Spectrum Geophysics, a private utility locator, was contracted to perform utility clearance at the drilling locations and to identify conflicts with underground utilities, pipes, and underground anomalies. A hand auger was used to clear borings MWC009, MWG001, and MWG002 to 8 feet bgs. A 12-inch diameter air knife was used to clear borings MWG003 and MWG004 to 10 feet bgs.

EPA NOTIFICATION

Prior to the installation of the Gage Aquifer wells, EPA's environmental consultant, CH2M Hill, was contacted via electronic mail. A representative from Ch2M Hill, the EPA's environmental consultant, was on-Site during well installation activities to document Haley & Aldrich's field procedures. A

representative from Ch2M Hill was also on-Site during the initial groundwater sampling activities for each Gage Aquifer well and collected a split-sample from each well.

WELL INSTALLATION ACTIVITIES

Wells MWG001, MWG002, and MWC009 were installed from 18 April through 28 April 2005 and wells MWG003 and MWG004 were installed from 16 August through 24 August 2005 per the approved Work Plan. The locations of the wells are shown on Figure 2.

Gage Aquifer Wells

The four Gage Aquifer wells (MWG001 through MWG004) were installed using sonic drilling methods to total depths of approximately 185 to 195 feet below ground surface (bgs) by Resonant Sonic or WDC Exploration and Wells. An 8-inch diameter conductor casing and 6-inch diameter telescoped casing were used. The telescoped casing was used to seal off the Bellflower Aquitard in order to minimize cross-contamination of the Gage Aquifer by overlying aquifers. The borehole diameters in the Gage Aquifer wells are summarized in the following table.

Well	12-inch diameter borehole* (feet bgs)	8.5 or 8.75-inch diameter borehole (feet bgs)	6.5 or 7-inch diameter borehole (feet bgs)
MWG001	0-1	1-140	140-190
MWG002	0-3.5	3.5-140	140-195
MWG003	0-10	10-143	143-185
MWG004	0-10	10-145	145-186

*For utility clearance and/or surface completion purposes

The wells were drilled to approximately 35 feet below the top of the Gage Aquifer. The wells were constructed with 2-inch diameter Schedule-40 PVC casing including approximately 30 feet of 0.020-inch slotted screen. The casings were centered in the borings using centralizers which were placed at each end of the well screen and at 50-foot intervals as the well casings were lowered into the borings. Once the casings were installed to the desired depth, the wells were completed with sandpack material, bentonite pellets, and cement-bentonite grout. The annular space around the screened sections was packed with No. 2/16 Monterey sand to at least 3 feet above the top of the screened interval. The well casings were then surged to settle the sand packs. Approximately 5 feet of bentonite pellets with a time-release coating were placed in the well casings above the sand packs. After the bentonite pellets were given sufficient time to hydrate, the remaining annular space was sealed with cement-bentonite grout which was pumped into place through a tremie pipe to approximately 2 to 3 feet from the surface. The wells were completed at ground surface with a 12-inch diameter well box and concrete. Well construction details are summarized in Table I and copies of the boring logs are in Appendix B.

For geologic descriptions, the borings were continuously cored, as described in the boring logs (Appendix B). During well installation, soil samples were collected from the different lithologies encountered and analyzed for geotechnical parameters. Geotechnical parameters included total porosity, effective permeability, effective hydraulic conductivity, total organic carbon, and particle size distribution and the

results are included in Table II. This data was collected in order to increase the understanding of Site conditions.

C-Sand Well

One C-Sand well (MWC009) was installed using hollow-stem drilling methods with 10-inch diameter augers to a total depth of approximately 125 feet bgs by WDC Exploration and Wells. The well was constructed with 4-inch diameter Schedule-40 PVC casing with approximately 20 feet of slotted 0.020-inch well screen through the hollow-stem augers. Once the casing was installed to the desired depth, the annular space around the screened sections was packed with No. 2/12 Monterey sand to at least 3 feet above the top of the screened interval. The well casing was then surged to settle the sand pack. Approximately 5 feet of bentonite pellets were placed in the well casing above the sand pack. After the bentonite pellets were given sufficient time to hydrate, the remaining annular space was sealed with cement-bentonite grout which was pumped into place through a tremie pipe to approximately 3 feet from the surface. The well was completed at ground surface with a 12-inch diameter well box and concrete. Well construction details are summarized in Table I and a copy of the boring log is in Appendix B.

Well Development

No sooner than 72 hours after installation, the wells were developed by surging, bailing, and pumping to remove fine-grained material from the well casing, sand pack, and the adjacent formation. The wells were developed in accordance with the approved Work Plan. Copies of the Well Development Logs are included in Appendix C.

Surveying

The well locations and elevations were surveyed by a licensed surveyor to the nearest 0.01 foot. Horizontal coordinates were established using California State Plane of 1983. Vertical elevations were established using North American Vertical Datum of 1988. The well coordinates and elevations are included in Table I. Copies of the certified survey reports are in Appendix D.

Waste Disposal

Soil and water generated from well installation activities were containerized and sampled for waste profiling purposes. The analytical results were used to profile, manifest, and dispose of the waste by BRC.

GROUNDWATER SAMPLING RESULTS

No sooner than two weeks after well development activities, the wells were monitored, purged, and sampled in accordance with the approved Groundwater Work Plan. During purging, pH, temperature, conductivity, dissolved oxygen, oxidation-reduction potential, and turbidity were measured and recorded on the groundwater sampling data sheets. Copies of these sheets are included in Appendix E.

Groundwater samples were collected from each well and submitted to a state-certified laboratory (STL Los Angeles) for analysis of VOCs by EPA Method 8260B. Copies of the analytical reports are included in Appendix F and the results are shown on Table III. In addition to sampling the wells two weeks after development, wells MWC009, MWG001 and MWG002 were also sampled during the quarterly sampling event in July 2005 and the semiannual sampling event in September 2005. Results of these events are included in Table III and summarized in the *Semiannual Groundwater Report* (Rubicon Engineering, 2005b).

The following table lists the detected concentrations in the four Gage Aquifer wells and one C-Sand well in September 2005 (when all five wells were sampled).

Detected VOCs in μg/l	**MWG001**	**MWG002**	**MWG003**	**MWG003 (Duplicate)**	**MWG004**	**MWC009**
1,1,2-trichloroethane	ND	ND	ND	ND	ND	**6 J**
1,1-dichloroethane	ND	ND	ND	ND	ND	**3.1 J**
1,1-dichloroethene	**2.3**	ND	ND	ND	ND	**830**
1,2-dichloroethane	ND	ND	ND	ND	ND	**6.9**
Chloroform	ND	ND	**0.59 J**	**0.6 J**	ND	ND
cis-1,2-dichloroethene	**2**	**1.2 J**	**15**	**14**	ND	**23**
trans-1,2-dichloroethene	ND	ND	**0.45 J**	**0.42 J**	ND	**14**
TCE	**5.5**	**120**	**74**	**72**	**13**	**210**

μg/l = micrograms per liter
J = estimated concentration
ND = Not detected above laboratory detection limits

The most recent TCE concentrations detected in the four on-Site Gage Aquifer wells are shown on Figure 3. Figure 3 also shows recent Gage Aquifer data available from groundwater monitoring wells and hydropunch locations for the facilities in the Site vicinity (former Montrose, Del Amo, and ILM). Groundwater in the Gage Aquifer appears to flow to the southeast (Figure 4).

Quality Assurance/Quality Control Samples

Field duplicates, equipment rinsate blanks, field blanks, and trip blanks were collected as follows. The samples were analyzed for VOCs by EPA Method 8260B and the results are included in Table III.

- Field duplicate samples were collected from wells MWG002 and MWG003. Duplicate laboratory data can be used to measure sample homogeneity and laboratory accuracy. The data from the duplicate samples were reported to have similar concentrations to the primary samples collected from MWG002 and MWG003.
- One equipment rinsate blank was collected each day prior to initiation of sampling activities as a check for cross-contamination during sample collection. Six equipment rinsate blanks were

collected. Low concentrations of 1,2-dichlorobenzene (up to 0.96J μg/l) and methyl ethyl ketone (11 μg/l) were detected in the equipment blank samples.

- One field blank was collected each day with laboratory supplied water to check for contamination by sampling methodology. Six field blanks and one duplicate field blank were collected. Low concentrations of 1,2-dichlorobenzene (up to 0.89J μg/l) and methylene chloride (0.31J μg/l) were detected in the field blank samples.
- One laboratory-prepared trip blank was shipped to the laboratory on a daily basis to check for cross-contamination. Low concentrations of acetone (up to 7.3 μg/l) were detected in the trip blanks.

DATA VALIDATION

Over 50 percent of the primary/duplicate samples and over 33 percent of the QA/QC samples were validated. he data validation was a combination of Tier I, Tier II, and Tier III procedures. Data validation results are provided in Appendix G. Appropriate data qualifiers, as determined by Laboratory Data Consultants, Inc. (a data validation subcontractor), have been included where appropriate in the data validation reports.

SUMMARY AND CONCLUSION

One well (MWC009) was installed in the C-Sand at the Site using hollow stem auger drilling methods to approximately 125 feet bgs. A groundwater sample was collected from this well and analyzed for VOCs. Detected concentrations of VOCs ranged from 3.1 J to 830 μg/l in the most recent data set (September 2005).

Four wells (MWG001 through MWG004) have been installed in the Gage Aquifer at the Site using sonic drilling methods to depths up to 195 feet bgs. VOCs were detected in the wells at concentrations up to 120 μg/l. TCE was detected in the four Gage Aquifer wells at concentrations ranging from 5.5 to 120 μg/l in the most recent data set (September 2005).

Based on the interpreted groundwater flow direction in the Gage Aquifer (southeast), TCE concentrations in the Gage Aquifer appear to be delineated in the vicinity of the Site in all directions except towards the upgradient ILM facility. As a result, groundwater assessment activities related to the Site appear to be complete.

LIMITATIONS

This report was prepared by Haley & Aldrich, under the professional direction and review of the registered professional(s) listed below. The work described herein was conducted in accordance with generally accepted professional engineering and geologic practice. No other warranty exists, either expressed or implied.

In addition to data collected by and observations made by Haley & Aldrich personnel, this report incorporates Site conditions observed and described by others as reported in records available to Haley &

Aldrich as of the date of report preparation. Haley & Aldrich relied—in part—on such data collected by others in the development of interpretations about environmental conditions at the Site. The accuracy, precision, or representative nature of data originally generated by others could not be independently verified by Haley & Aldrich and would be beyond the scope of this project. Site conditions may vary beyond the points explored in this and other investigations.

In addition, the passage of time may result in changes to Site conditions, technology, or economic conditions which could alter the findings and/or recommendations of the report.

We appreciate the opportunity to provide services on this project. Please do not hesitate to call one of the undersigned if you have any questions or comments.

Sincerely yours,
HALEY & ALDRICH, INC.

Beth Breitenbach

Beth Breitenbach
Staff Environmental Geologist

M. Joseph Weidmann, PG #6947
Project Manager

Attachments:

Table I - Well Construction Details
Table II - Geotechnical Results for Soil
Table III - VOCs in Groundwater
Figure 1 - Site Location
Figure 2 - Groundwater Monitoring Well Locations
Figure 3 - 2005 Distribution of TCE in Gage Aquifer
Figure 4 - 2005 Site Vicinity Groundwater Elevations, Gage Aquifer
Appendix A - Well Construction Permits
Appendix B - Boring Logs
Appendix C - Well Development Logs
Appendix D - Survey Reports
Appendix E - Groundwater Sampling Data Sheets
Appendix F - Laboratory Analytical Reports
Appendix G - Data Validation Report

REFERENCES

1. California Regional Water Quality Control Board. 2005a. California Water Code Section 13267 Order to Investigate Groundwater Pollution – Boeing Realty Corporation, Former C-6 Facility, 19503 Normandie Avenue, Los Angeles (File No. 95-036, SLIC No. 0410). 8 March.

2. California Regional Water Quality Control Board. 2005b. Work Plan Approval - California Water Code Section 13267 Groundwater Quality Investigation , Installation of Gage Aquifer Monitoring Wells, Former Boeing Realty Corporation C-6 Facility, 19503 Normandie Avenue, Los Angeles (SLIC No. 0410). 22 March.

3. California Regional Water Quality Control Board. 2005c. Groundwater Quality Investigations, Installation of Additional Gage Aquifer Monitoring Wells, Former Boeing Realty Corporation C-6 Facility, 19503 Normandie Avenue, Torrance (SLIC No. 0410). 7 July.

4. California Regional Water Quality Control Board. 2004. Work Plan Approval, Groundwater Monitoring Work Plan, Boeing Realty Corporation C-6 Facility, 19503 Normandie Avenue, Los Angeles (File No. 95-036). 22 December.

5. Haley & Aldrich, Inc. 2003. Site-Wide Groundwater Monitoring Work Plan, Former C-6 Facility, Los Angeles, California. 31 March.

6. Haley & Aldrich, Inc. 2004. Groundwater Monitoring Work Plan 2005, Former C-6 Facility, Los Angeles, California. 24 November.

7. Haley & Aldrich, Inc. 2005a. Preliminary Data Package for the Installation of Gage Aquifer and C-Sand Monitoring Wells, Former C-6 Facility, Los Angeles, California. 9 June.

8. Haley & Aldrich, Inc. 2005b. Addendum to the Preliminary Data Package for the Installation of Gage Aquifer and C-Sand Monitoring Wells, Former C-6 Facility, Los Angeles, California. 30 June.

9. Rubicon Engineering. 2005a. Work Plan Groundwater Monitoring Well Installation (LARWQCB File No. 95-036, SLIC No. 0410), Former Boeing C-6 Facility, Los Angeles, California. 9 March.

10. Rubicon Engineering. 2005b. Semiannual Groundwater Monitoring Report. November.

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Tables

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TABLE I
WELL COMPLETION DETAILS
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

Well ID	Easting	Northing	Top of Casing Elevation (feet AMSL)	Boring Total Depth (feet bgs)	Screen Depth Interval (feet bgs)	Depth to Top of Filter Pack (feet bgs)	Casing Diameter (inches)	Casing Type	Slot Size (Inch)	Date Installed
Gage Aquifer										
MWG001	1769156.15	6470702.48	54.13	190	157-187	152	2	Sched 40 PVC	0.02	4/22/2005
MWG002	1768458.71	6470701.06	54.78	195	163-193	158	2	Sched 40 PVC	0.02	4/28/2005
MWG003	1768922.52	6470052.45	53.08	185	154-184	150	2	Sched 40 PVC	0.02	8/23/2005
MWG004	1769395.62	6470226.66	52.05	186	155-185	150	2	Sched 40 PVC	0.02	8/19/2005
C-Sand										
MWC009	1769372.12	6470654.21	53.99	125	101-121	98	4	Sched 40 PVC	0.02	4/28/2005

Notes:
AMSL = Above Mean Sea Level - Wells were surveyed 19 May 2005 and 15 September 2005 by Tait & Associates.
bgs = below ground surface

QA/QC: _____
Date: 12/8/2005

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TABLE II
GEOTECHNICAL RESULTS FOR SOIL
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

Parameter: Result Value Units:					Bulk Density g/cc	Effective Permeability millidarcy	methylnaphthalene isomer 2 cm/s	Porosity, Total %Vb	Moisture Content % wt	Clay % wt
Well ID	**Sample Name**	**Sample Type**	**Depth (feet bgs)**	**Date Collected**						
MWG001	MWG001_SS101_0001	Primary Sample	101	04/19/2005	1.37	1.75	0.00000171	47.8	32.2	15.08
	MWG001_SS122_0001	Primary Sample	122	04/20/2005	1.62					
	MWG001_SS133_0001	Primary Sample	133	04/20/2005	1.38	0.027	2.66E-08	37.9	28.1	10.92
	MWG001_SS145_0001	Primary Sample	145	04/20/2005	1.55					9.87
	MWG001_SS165_0001	Primary Sample	165	04/21/2005	1.43					2.63
MWG002	MWG002_SS074_0001	Primary Sample	74	04/26/2005	1.47					3.66
	MWG002_SS079_0001	Primary Sample	79	04/26/2005	1.6	1.48	0.00000143	49.2	30.4	8.92
	MWG002_SS107_0001	Primary Sample	107	04/26/2005	1.58					4.32
	MWG002_SS124_0001	Primary Sample	124	04/26/2005	1.7					
	MWG002_SS135_0001	Primary Sample	135	04/26/2005	1.31	2.43	0.00000238	44.4	31.3	53.74
	MWG002_SS176_0001	Primary Sample	176	04/27/2005						3.16
MWG003	MWG003_SS088_0001	Primary Sample	88	08/23/2005		164	0.000158	41.1		8.69
	MWG003_SS108_0001	Primary Sample	108	08/23/2005		7.63	0.00000738	44.5		7.83
	MWG003_SS113_0001	Primary Sample	113	08/23/2005		224	0.00022	38.4		2.42
	MWG003_SS146_0001	Primary Sample	146	08/23/2005		1.08	0.00000106	56.3		50.15
	MWG003_SS165_0001	Primary Sample	165	08/23/2005		745	0.000719	43.6		2.18
MWG004	MWG004_SS074_0001	Primary Sample	74	08/16/2005		8.77	0.00000843	32.1		34.47
	MWG004_SS099_0001	Primary Sample	99	08/17/2005		0.816	0.000000787	48.5		31.51
	MWG004_SS128_0001	Primary Sample	128	08/17/2005		882	0.000851	39		2.09
	MWG004_SS144_0001	Primary Sample	144	08/17/2005		0.346	0.000000334	50.2		26.27
	MWG004_SS172_0001	Primary Sample	172	08/18/2005		207	0.000202	43		7.97
MWC009	MWC009_SS080_0001	Primary Sample	80	04/28/2005	1.65					2.45
	MWC009_SS098_0001	Primary Sample	98	04/28/2005	1.45					91.72
	MWC009_SS111_0001	Primary Sample	111	04/28/2005	1.95					7.04

Notes:
g/cc = grams per cubic centimeters
cm/s = centimeters per second
%Vb = percent by volume
%wt = percent by weight
mg/kg = milligrams per kilogram
U = not detected above laboratory detection limits
Cells are blank if sample was not analyzed for parameter.
Effective permeability and effective hydraulic conductivity analyzed in accordance with ASTM D5084.
Bulk density and total porosity analyzed in accordance with API RP40.
TOC analyzed in accordance with Walkely-Black methodology.
Grain size distribution analyzed in accordance with ASTM D422/D4464M.
Moisture content analyzed in accordance with ASTM D2216.

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TABLE II
GEOTECHNICAL RESULTS FOR SOIL
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

Parameter: Result Value Units:					Coarse Sand % wt	Fine Sand % wt	Gravel % wt	Median Grain Size millimeters	Medium Sand % wt	Silt % wt	Silt and Clay % wt	Total organic carbon mg/kg
Well ID	**Sample Name**	**Sample Type**	**Depth (feet bgs)**	**Date Collected**								
MWG001	MWG001_SS101_0001	Primary Sample	101	04/19/2005		20.71		0.027	2.23	61.98	77.06	1450
	MWG001_SS122_0001	Primary Sample	122	04/20/2005	9.04	58.9	12.22	0.331	14.83		5.01	
	MWG001_SS133_0001	Primary Sample	133	04/20/2005		32.45		0.042	0.01	56.62	67.54	1000
	MWG001_SS145_0001	Primary Sample	145	04/20/2005		45.65		0.066	1.17	43.32	53.18	
	MWG001_SS165_0001	Primary Sample	165	04/21/2005		68.55		0.257	18.56	10.26	12.89	
MWG002	MWG002_SS074_0001	Primary Sample	74	04/26/2005		44.52		0.356	40.68	11.14	14.79	
	MWG002_SS079_0001	Primary Sample	79	04/26/2005		37.04		0.057		54.03	62.95	610
	MWG002_SS107_0001	Primary Sample	107	04/26/2005		73.27		0.138	0.36	22.04	26.37	
	MWG002_SS124_0001	Primary Sample	124	04/26/2005	18.45	50.69	1.11	0.387	26.64		3.11	
	MWG002_SS135_0001	Primary Sample	135	04/26/2005				0.004		46.26	100	600
	MWG002_SS176_0001	Primary Sample	176	04/27/2005		61.65		0.267	24.61	10.58	13.74	
MWG003	MWG003_SS088_0001	Primary Sample	88	08/23/2005		70.54		0.154		20.77	29.46	490
	MWG003_SS108_0001	Primary Sample	108	08/23/2005		23.09		0.043	0.01	69.08	76.9	280
	MWG003_SS113_0001	Primary Sample	113	08/23/2005		31.09		0.488	62.68	3.81	6.23	270
	MWG003_SS146_0001	Primary Sample	146	08/23/2005		4.72		0.005		45.13	95.28	600
	MWG003_SS165_0001	Primary Sample	165	08/23/2005		50.07		0.31	38.36	9.39	11.57	130
MWG004	MWG004_SS074_0001	Primary Sample	74	08/16/2005				0.009		65.53	100	100 U
	MWG004_SS099_0001	Primary Sample	99	08/17/2005				0.01		68.49	100	1200
	MWG004_SS128_0001	Primary Sample	128	08/17/2005		45		0.411	48.38	4.53	6.62	670
	MWG004_SS144_0001	Primary Sample	144	08/17/2005		39.39		0.027	0.01	34.33	60.6	2750
	MWG004_SS172_0001	Primary Sample	172	08/18/2005		59		0.107	2.1	30.93	38.9	430
MWC009	MWC009_SS080_0001	Primary Sample	80	04/28/2005		45.66		0.376	42.25	8.75	11.2	
	MWC009_SS098_0001	Primary Sample	98	04/28/2005		8.28		0.02		73.97	91.72	570
	MWC009_SS111_0001	Primary Sample	111	04/28/2005		54.52		0.267	21.88	16.56	23.6	

Notes:
g/cc = grams per cubic centimeters
cm/s = centimeters per second
%Vb = percent by volume
%wt = percent by weight
mg/kg = milligrams per kilogram
U = not detected above laboratory detection limits
Cells are blank if sample was not analyzed for parameter.
Effective permeability and effective hydraulic conductivity analyzed in accordance with ASTM D5084.
Bulk density and total porosity analyzed in accordance with API RP40.
TOC analyzed in accordance with Walkely-Black methodology.
Grain size distribution analyzed in accordance with ASTM D422/D4464M.
Moisture content analyzed in accordance with ASTM D2216.

QA/QC: BB
Date: 12/8/2005

BOE-C6-0104670

TABLE III
VOCs IN GROUNDWATER
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

Analyte:				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
CAS Number:				630206	71556	79345	76131	79005	75343	75354	563586	87616
Result Value Units:				ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Object Name	**Sample Name**	**Sample Type**	**Date Collected**									
MWC009	MWC009_WG052005_0001	Primary Sample	05/20/2005	25 U	25 U	25 U		8.8 J	8.9 J	1200	25 U	25 U
	MWC009_WG070605_0001	Primary Sample	07/06/2005	6.2 U	6.2 U	6.2 U	6.2 U	7.2	4.6 J	440	6.2 U	6.2 U
	MWC009_WG092105_0001	Primary Sample	09/21/2005	10 U	10 U	10 U	10 U	6 J	6.1 J	830	10 U	10 U
MWG001	MWG001_WG052005_0001	Primary Sample	05/20/2005	1 U	1 U	1 U		1 U	1 U	3.7	1 U	1 U
	MWG001_WG070705_0001	Primary Sample	07/07/2005	1 U	1 U	1 U	1 U	1 U	1 U	2.9	1 U	1 U
	MWG001_WG091905_0001	Primary Sample	09/19/2005	1 U	1 U	1 U	1 U	1 U	1 U	2.3	1 U	1 U
MWG002	MWG002_WG052005_0001	Primary Sample	05/20/2005	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U
	MWG002_WG052005_0002	Field Duplicate	05/20/2005	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U
	MWG002_WG070705_0001	Primary Sample	07/07/2005	2 U	2 U	2 U	2 U	2 U	2 U	1.3 J	2 U	2 U
	MWG002_WG091905_0001	Primary Sample	09/19/2005	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
MWG003	MWG003_WG092105_0001	Primary Sample	09/21/2005	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U
	MWG003_WG092105_0002	Field Duplicate	09/21/2005	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U
MWG004	MWG004_WG092105_0001	Primary Sample	09/21/2005	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U
Quality Assurance/ Quality Control Samples												
EquipmentBlank	EB_HA052005_0001	Field Equipment Blank	05/20/2005	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U
	EB_HA092105_0001	Field Equipment Blank	09/21/2005	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U
	EB_TAIT070605_0001	Field Equipment Blank	07/06/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	EB_TAIT070705_0001	Field Equipment Blank	07/07/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	EB_TAIT091905_0001	Field Equipment Blank	09/19/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	EB_TAIT092105_0001	Field Equipment Blank	09/21/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
FieldBlank	FB_HA052005_0001	Field Trip/Travel Blank	05/20/2005	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U
	FB_HA052005_0002	Field Trip/Travel Blank	05/20/2005	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U
	FB_HA092105_0001	Field Trip/Travel Blank	09/21/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	FB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	FB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	FB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	FB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TripBlank	TB_HA052005_0001	Field Trip/Travel Blank	05/20/2005	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U
	TB_HA092105_0001	Field Trip/Travel Blank	09/21/2005	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U
	TB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	TB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	TB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	TB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	TRIP BLANK_WG061505_01	Field Trip/Travel Blank	06/14/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
ug/L = micrograms per liter
U = not detected above laboratory detection limits
J = estimated concentration
Cells are blank if sample was not analyzed for compound.

BOE-C6-0104671

TABLE III
VOCs IN GROUNDWATER
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

Analyte: CAS Number: Result Value Units:				1,2,3-Trichloropropane 96184 ug/L	1,2,4-Trichlorobenzene 120821 ug/L	1,2,4-Trimethylbenzene 95636 ug/L	1,2-Dibromo-3-chloropropane 96128 ug/L	1,2-Dibromoethane 106934 ug/L	1,2-Dichlorobenzene 95501 ug/L	1,2-Dichloroethane 107062 ug/L	1,2-Dichloropropane 78875 ug/L	1,3,5-Trimethylbenzene 108678 ug/L
Object Name	**Sample Name**	**Sample Type**	**Date Collected**									
MWC009	MWC009_WG052005_0001	Primary Sample	05/20/2005	25 U	25 U	25 U	50 U	25 U	25 U	10 J		25 U
	MWC009_WG070605_0001	Primary Sample	07/06/2005	6.2 U	6.2 U	6.2 U	12 U	6.2 U	6.2 U	7		6.2 U
	MWC009_WG092105_0001	Primary Sample	09/21/2005	10 U	10 U	10 U	20 U	10 U	10 U	6.9		10 U
MWG001	MWG001_WG052005_0001	Primary Sample	05/20/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	MWG001_WG070705_0001	Primary Sample	07/07/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	MWG001_WG091905_0001	Primary Sample	09/19/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
MWG002	MWG002_WG052005_0001	Primary Sample	05/20/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	MWG002_WG052005_0002	Field Duplicate	05/20/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	MWG002_WG070705_0001	Primary Sample	07/07/2005	2 U	2 U	2 U	4 U	2 U	2 U	1 U		2 U
	MWG002_WG091905_0001	Primary Sample	09/19/2005	2 U	2 U	2 U	4 U	2 U	2 U	1 U		2 U
MWG003	MWG003_WG092105_0001	Primary Sample	09/21/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	MWG003_WG092105_0002	Field Duplicate	09/21/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
MWG004	MWG004_WG092105_0001	Primary Sample	09/21/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
Quality Assurance/ Quality Control Samples												
EquipmentBlank	EB_HA052005_0001	Field Equipment Blank	05/20/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	EB_HA092105_0001	Field Equipment Blank	09/21/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	EB_TAIT070605_0001	Field Equipment Blank	07/06/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	EB_TAIT070705_0001	Field Equipment Blank	07/07/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	EB_TAIT091905_0001	Field Equipment Blank	09/19/2005	1 U	1 U	1 U	2 U	1 U	0.86 J	0.5 U		1 U
	EB_TAIT092105_0001	Field Equipment Blank	09/21/2005	1 U	1 U	1 U	2 U	1 U	0.96 J	0.5 U		1 U
FieldBlank	FB_HA052005_0001	Field Trip/Travel Blank	05/20/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	FB_HA052005_0002	Field Trip/Travel Blank	05/20/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	FB_HA092105_0001	Field Trip/Travel Blank	09/21/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	FB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	FB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	FB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005	1 U	1 U	1 U	2 U	1 U	0.48 J	0.5 U		1 U
	FB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005	1 U	1 U	1 U	2 U	1 U	0.89 J	0.5 U		1 U
TripBlank	TB_HA052005_0001	Field Trip/Travel Blank	05/20/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	TB_HA092105_0001	Field Trip/Travel Blank	09/21/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	TB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	TB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	TB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	TB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005	1 U	1 U	1 U	2 U	1 U	1 U	0.5 U		1 U
	TRIP BLANK_WG061505_01	Field Trip/Travel Blank	06/14/2005	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U

Notes:
ug/L = micrograms per liter
U = not detected above laboratory detection limits
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Cells are blank if sample was not analyzed for compound.

TABLE III
VOCs IN GROUNDWATER
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

Analyte:				1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2-Chloroethylvinyl ether	2-Hexanone	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
CAS Number:				541731	142289	106467	110758	591786	67641	107028	107131	71432	108861	74975	75274
Result Value Units:				ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Object Name	**Sample Name**	**Sample Type**	**Date Collected**												
MWC009	MWC009_WG052005_0001	Primary Sample	05/20/2005	25 U		25 U	120 U	120 U	250 U	500 U	500 U	25 U	25 U	25 U	25 U
	MWC009_WG070605_0001	Primary Sample	07/06/2005	6.2 U		6.2 U	31 U	31 U	62 U	120 U	120 U	6.2 U	6.2 U	6.2 U	6.2 U
	MWC009_WG092105_0001	Primary Sample	09/21/2005	10 U		10 U	50 U	50 U	100 U	200 U	200 U	10 U	10 U	10 U	10 U
MWG001	MWG001_WG052005_0001	Primary Sample	05/20/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	MWG001_WG070705_0001	Primary Sample	07/07/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	MWG001_WG091905_0001	Primary Sample	09/19/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
MWG002	MWG002_WG052005_0001	Primary Sample	05/20/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	MWG002_WG052005_0002	Field Duplicate	05/20/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	MWG002_WG070705_0001	Primary Sample	07/07/2005	2 U		2 U	10 U	10 U	20 U	40 U	40 U	2 U	2 U	2 U	2 U
	MWG002_WG091905_0001	Primary Sample	09/19/2005	2 U		2 U	10 U	10 U	20 U	40 U	40 U	2 U	2 U	2 U	2 U
MWG003	MWG003_WG092105_0001	Primary Sample	09/21/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	MWG003_WG092105_0002	Field Duplicate	09/21/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
MWG004	MWG004_WG092105_0001	Primary Sample	09/21/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
Quality Assurance/ Quality Control Samples															
EquipmentBlank	EB_HA052005_0001	Field Equipment Blank	05/20/2005	1 U		1 U	5 U	5 U	15	20 U	20 U	1 U	1 U	1 U	1 U
	EB_HA092105_0001	Field Equipment Blank	09/21/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	EB_TAIT070605_0001	Field Equipment Blank	07/06/2005	1 U		1 U	5 U	5 U	3.2 J	20 U	20 U	1 U	1 U	1 U	1 U
	EB_TAIT070705_0001	Field Equipment Blank	07/07/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	EB_TAIT091905_0001	Field Equipment Blank	09/19/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	EB_TAIT092105_0001	Field Equipment Blank	09/21/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
FieldBlank	FB_HA052005_0001	Field Trip/Travel Blank	05/20/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	FB_HA052005_0002	Field Trip/Travel Blank	05/20/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	FB_HA092105_0001	Field Trip/Travel Blank	09/21/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	FB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	FB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	FB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	FB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
TripBlank	TB_HA052005_0001	Field Trip/Travel Blank	05/20/2005	1 U		1 U	5 U	5 U	5.2 J	20 U	20 U	1 U	1 U	1 U	1 U
	TB_HA092105_0001	Field Trip/Travel Blank	09/21/2005	1 U		1 U	5 U	5 U	5.7 J	20 U	20 U	1 U	1 U	1 U	1 U
	TB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005	1 U		1 U	5 U	5 U	10 U	20 U	20 U	1 U	1 U	1 U	1 U
	TB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005	1 U		1 U	5 U	5 U	5.1 J	20 U	20 U	1 U	1 U	1 U	1 U
	TB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005	1 U		1 U	5 U	5 U	7.3 J	20 U	20 U	1 U	1 U	1 U	1 U
	TB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005	1 U		1 U		5 U	10 U			1 U	1 U	1 U	1 U
	TRIP BLANK_WG061505_01	Field Trip/Travel Blank	06/14/2005	1 U	1 U	1 U									

Notes:
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Cells are blank if sample was not analyzed for compound.

BOE-C6-0104673

TABLE III
VOCs IN GROUNDWATER
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

Analyte:				Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cumene	Dibromochloromethane
CAS Number:				75252	74839	75150	56235	108907	75003	67663	74873	156592	10061015	98828	124481
Result Value Units:				ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Object Name	**Sample Name**	**Sample Type**	**Date Collected**												
MWC009	MWC009_WG052005_0001	Primary Sample	05/20/2005	25 U	50 U	25 U	12 U	25 U	50 U	25 U	50 U	28		25 U	25 U
	MWC009_WG070605_0001	Primary Sample	07/06/2005	6.2 U	12 U	6.2 U	3.1 U	6.2 U	12 U	6.2 U	12 U	18		6.2 U	6.2 U
	MWC009_WG092105_0001	Primary Sample	09/21/2005	10 U	20 U	10 U	5 U	10 U	20 U	10 U	20 U	23		10 U	10 U
MWG001	MWG001_WG052005_0001	Primary Sample	05/20/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	2.5		1 U	1 U
	MWG001_WG070705_0001	Primary Sample	07/07/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	2.9		1 U	1 U
	MWG001_WG091905_0001	Primary Sample	09/19/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	2		1 U	1 U
MWG002	MWG002_WG052005_0001	Primary Sample	05/20/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	0.54 J	2 U	1 U		1 U	1 U
	MWG002_WG052005_0002	Field Duplicate	05/20/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	0.64 J	2 U	1 U		1 U	1 U
	MWG002_WG070705_0001	Primary Sample	07/07/2005	2 U	4 U	2 U	1 U	2 U	4 U	2 U	4 U	1.1 J		2 U	2 U
	MWG002_WG091905_0001	Primary Sample	09/19/2005	2 U	4 U	2 U	1 U	2 U	4 U	2 U	4 U	1.2 J		2 U	2 U
MWG003	MWG003_WG092105_0001	Primary Sample	09/21/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	0.59 J	2 U	15		1 U	1 U
	MWG003_WG092105_0002	Field Duplicate	09/21/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	0.6 J	2 U	14		1 U	1 U
MWG004	MWG004_WG092105_0001	Primary Sample	09/21/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
Quality Assurance/ Quality Control Samples															
EquipmentBlank	EB_HA052005_0001	Field Equipment Blank	05/20/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	EB_HA092105_0001	Field Equipment Blank	09/21/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	EB_TAIT070605_0001	Field Equipment Blank	07/06/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	EB_TAIT070705_0001	Field Equipment Blank	07/07/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	EB_TAIT091905_0001	Field Equipment Blank	09/19/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	EB_TAIT092105_0001	Field Equipment Blank	09/21/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
FieldBlank	FB_HA052005_0001	Field Trip/Travel Blank	05/20/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	FB_HA052005_0002	Field Trip/Travel Blank	05/20/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	FB_HA092105_0001	Field Trip/Travel Blank	09/21/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	FB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	FB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	FB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	FB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
TripBlank	TB_HA052005_0001	Field Trip/Travel Blank	05/20/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	TB_HA092105_0001	Field Trip/Travel Blank	09/21/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	TB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	TB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	TB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	TB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U	1 U		1 U	1 U
	TRIP BLANK_WG061505_01	Field Trip/Travel Blank	06/14/2005	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U

Notes:
ug/L = micrograms per liter
U = not detected above laboratory detection limits
J = estimated concentration
Cells are blank if sample was not analyzed for compound.

BOE-C6-0104674

TABLE III
VOCs IN GROUNDWATER
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

Analyte:				Dibromomethane	Dichlorodifluoromethane	Diisopropyl ether	Ethylbenzene	Hexachlorobutadiene	Iodomethane	Methyl ethyl ketone	Methyl isobutyl ketone (MIBK)	Methyl tert-butyl ether	Methylene chloride	m-Xylene & p-Xylen
CAS Number:				74953	75718	108203	100414	87683	74884	78933	108101	1634044	75092	136777612
Result Value Units:				ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Object Name	**Sample Name**	**Sample Type**	**Date Collected**											
MWC009	MWC009_WG052005_0001	Primary Sample	05/20/2005		25 U	50 U	25 U	25 U	50 U	120 U	120 U	25 U	25 U	
	MWC009_WG070605_0001	Primary Sample	07/06/2005		6.2 U		6.2 U	6.2 U	12 U	31 U	31 U	6.2 U	6.2 U	
	MWC009_WG092105_0001	Primary Sample	09/21/2005		10 U		10 U	10 U	20 U	50 U	50 U	10 U	10 U	
MWG001	MWG001_WG052005_0001	Primary Sample	05/20/2005		1 U	2 U	1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	MWG001_WG070705_0001	Primary Sample	07/07/2005		1 U		1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	MWG001_WG091905_0001	Primary Sample	09/19/2005		1 U		1 U	1 U	2 U	5 U	5 U	1 U	1 U	
MWG002	MWG002_WG052005_0001	Primary Sample	05/20/2005		1 U	2 U	1 U	1 U	2 U	5 U	5 U	1 U	0.64 J	
	MWG002_WG052005_0002	Field Duplicate	05/20/2005		1 U	2 U	1 U	1 U	2 U	5 U	5 U	1 U	0.83 J	
	MWG002_WG070705_0001	Primary Sample	07/07/2005		2 U		2 U	2 U	4 U	10 U	10 U	2 U	2 U	
	MWG002_WG091905_0001	Primary Sample	09/19/2005		2 U		2 U	2 U	4 U	10 U	10 U	2 U	2 U	
MWG003	MWG003_WG092105_0001	Primary Sample	09/21/2005		1 U	2 U	1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	MWG003_WG092105_0002	Field Duplicate	09/21/2005		1 U	2 U	1 U	1 U	2 U	5 U	5 U	1 U	1 U	
MWG004	MWG004_WG092105_0001	Primary Sample	09/21/2005		1 U	2 U	1 U	1 U	2 U	5 U	5 U	1 U	1 U	
Quality Assurance/ Quality Control Samples														
EquipmentBlank	EB_HA052005_0001	Field Equipment Blank	05/20/2005		1 U	2 U	1 U	1 U	2 U	11	5 U	1 U	1 U	
	EB_HA092105_0001	Field Equipment Blank	09/21/2005		1 U	2 U	1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	EB_TAIT070605_0001	Field Equipment Blank	07/06/2005		1 U		1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	EB_TAIT070705_0001	Field Equipment Blank	07/07/2005		1 U		1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	EB_TAIT091905_0001	Field Equipment Blank	09/19/2005		1 U		1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	EB_TAIT092105_0001	Field Equipment Blank	09/21/2005		1 U		1 U	1 U	2 U	5 U	5 U	1 U	1 U	
FieldBlank	FB_HA052005_0001	Field Trip/Travel Blank	05/20/2005		1 U	2 U	1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	FB_HA052005_0002	Field Trip/Travel Blank	05/20/2005		1 U	2 U	1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	FB_HA092105_0001	Field Trip/Travel Blank	09/21/2005		1 U	2 U	1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	FB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005		1 U		1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	FB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005		1 U		1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	FB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005		1 U		1 U	1 U	2 U	5 U	5 U	1 U	0.31 J	
	FB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005		1 U		1 U	1 U	2 U	5 U	5 U	1 U	1 U	
TripBlank	TB_HA052005_0001	Field Trip/Travel Blank	05/20/2005		1 U	2 U	1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	TB_HA092105_0001	Field Trip/Travel Blank	09/21/2005		1 U	2 U	1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	TB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005		1 U		1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	TB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005		1 U		1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	TB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005		1 U		1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	TB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005		1 U		1 U	1 U	2 U	5 U	5 U	1 U	1 U	
	TRIP BLANK_WG061505_01	Field Trip/Travel Blank	06/14/2005	1 U	2 U		1 U	1 U		5 U	5 U	1 U	1 U	1

Notes:
ug/L = micrograms per liter
U = not detected above laboratory detection limits
J = estimated concentration
Cells are blank if sample was not analyzed for compound.

BOE-C6-0104675

TABLE III
VOCs IN GROUNDWATER
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

Analyte: CAS Number: Result Value Units:				e	Naphthalene 91203 ug/L	n-Butylbenzene 104518 ug/L	n-Propylbenzene 103651 ug/L	o-Chlorotoluene 95498 ug/L	o-Xylene 95476 ug/L	p-Chlorotoluene 106434 ug/L	p-Cymene 99876 ug/L	sec-Butylbenzene 135988 ug/L	sec-Dichloropropane 594207 ug/L	Styrene 100425 ug/L	Tert-amyl methyl ether 994058 ug/L
Object Name	**Sample Name**	**Sample Type**	**Date Collected**												
MWC009	MWC009_WG052005_0001	Primary Sample	05/20/2005			25 U	25 U	25 U		25 U	25 U	25 U	25 U	25 U	50 U
	MWC009_WG070605_0001	Primary Sample	07/06/2005			6.2 U	6.2 U	6.2 U		6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	
	MWC009_WG092105_0001	Primary Sample	09/21/2005			10 U	10 U	10 U		10 U	10 U	10 U	10 U	10 U	
MWG001	MWG001_WG052005_0001	Primary Sample	05/20/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	2 U
	MWG001_WG070705_0001	Primary Sample	07/07/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	
	MWG001_WG091905_0001	Primary Sample	09/19/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	
MWG002	MWG002_WG052005_0001	Primary Sample	05/20/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	2 U
	MWG002_WG052005_0002	Field Duplicate	05/20/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	2 U
	MWG002_WG070705_0001	Primary Sample	07/07/2005			2 U	2 U	2 U		2 U	2 U	2 U	2 U	2 U	
	MWG002_WG091905_0001	Primary Sample	09/19/2005			2 U	2 U	2 U		2 U	2 U	2 U	2 U	2 U	
MWG003	MWG003_WG092105_0001	Primary Sample	09/21/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	2 U
	MWG003_WG092105_0002	Field Duplicate	09/21/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	2 U
MWG004	MWG004_WG092105_0001	Primary Sample	09/21/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	2 U
Quality Assurance/ Quality Control Samples															
EquipmentBlank	EB_HA052005_0001	Field Equipment Blank	05/20/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	2 U
	EB_HA092105_0001	Field Equipment Blank	09/21/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	2 U
	EB_TAIT070605_0001	Field Equipment Blank	07/06/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	
	EB_TAIT070705_0001	Field Equipment Blank	07/07/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	
	EB_TAIT091905_0001	Field Equipment Blank	09/19/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	
	EB_TAIT092105_0001	Field Equipment Blank	09/21/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	
FieldBlank	FB_HA052005_0001	Field Trip/Travel Blank	05/20/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	2 U
	FB_HA052005_0002	Field Trip/Travel Blank	05/20/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	2 U
	FB_HA092105_0001	Field Trip/Travel Blank	09/21/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	2 U
	FB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	
	FB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	
	FB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	
	FB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	
TripBlank	TB_HA052005_0001	Field Trip/Travel Blank	05/20/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	2 U
	TB_HA092105_0001	Field Trip/Travel Blank	09/21/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	2 U
	TB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	
	TB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	
	TB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005			1 U	1 U	1 U		1.U	1 U	1 U	1 U	1 U	
	TB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005			1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	
	TRIP BLANK_WG061505_01	Field Trip/Travel Blank	06/14/2005	U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	

Notes:
ug/L = micrograms per liter
U = not detected above laboratory detection limits
J = estimated concentration
Cells are blank if sample was not analyzed for compound.

TABLE III
VOCs IN GROUNDWATER
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

Analyte: CAS Number: Result Value Units:				tert-Butyl alcohol 75650 ug/L	Tert-butyl ethyl ether 637923 ug/L	tert-Butylbenzene 98066 ug/L	Tetrachloroethene 127184 ug/L	Tetrahydrofuran 109999 ug/L	Toluene 108883 ug/L	trans-1,2-Dichloroethene 156605 ug/L	trans-1,3-Dichloropropene 10061026 ug/L	Trichloroethene 79016 ug/L	Trichlorofluoromethane 75694 ug/L	Vinyl acetate 108054 ug/L
Object Name	**Sample Name**	**Sample Type**	**Date Collected**											
MWC009	MWC009_WG052005_0001	Primary Sample	05/20/2005	620 U	50 U	25 U	25 U	250 U	25 U	22 J		300	50 U	120 U
	MWC009_WG070605_0001	Primary Sample	07/06/2005			6.2 U	6.2 U	62 U	6.2 U	9.8		160	12 U	31 U
	MWC009_WG092105_0001	Primary Sample	09/21/2005			10 U	10 U	100 U	10 U	14		210	20 U	50 U
MWG001	MWG001_WG052005_0001	Primary Sample	05/20/2005	25 U	2 U	1 U	1 U	10 U	1 U	1 U		9.3	2 U	5 U
	MWG001_WG070705_0001	Primary Sample	07/07/2005			1 U	1 U	10 U	1 U	1 U		7.4	2 U	5 U
	MWG001_WG091905_0001	Primary Sample	09/19/2005			1 U	1 U	10 U	1 U	1 U		5.5	2 U	5 U
MWG002	MWG002_WG052005_0001	Primary Sample	05/20/2005	25 U	2 U	1 U	1 U	10 U	1 U	1 U		56	2 U	5 U
	MWG002_WG052005_0002	Field Duplicate	05/20/2005	25 U	2 U	1 U	1 U	10 U	1 U	1 U		68	2 U	5 U
	MWG002_WG070705_0001	Primary Sample	07/07/2005			2 U	2 U	20 U	2 U	2 U		160	4 U	10 U
	MWG002_WG091905_0001	Primary Sample	09/19/2005			2 U	2 U	20 U	2 U	2 U		120	4 U	10 U
MWG003	MWG003_WG092105_0001	Primary Sample	09/21/2005	25 U	2 U	1 U	1 U	10 U	1 U	0.45 J		74	2 U	5 U
	MWG003_WG092105_0002	Field Duplicate	09/21/2005	25 U	2 U	1 U	1 U	10 U	1 U	0.42 J		72	2 U	5 U
MWG004	MWG004_WG092105_0001	Primary Sample	09/21/2005	25 U	2 U	1 U	1 U	10 U	1 U	1 U		13	2 U	5 U
Quality Assurance/ Quality Control Samples														
EquipmentBlank	EB_HA052005_0001	Field Equipment Blank	05/20/2005	25 U	2 U	1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	EB_HA092105_0001	Field Equipment Blank	09/21/2005	25 U	2 U	1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	EB_TAIT070605_0001	Field Equipment Blank	07/06/2005			1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	EB_TAIT070705_0001	Field Equipment Blank	07/07/2005			1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	EB_TAIT091905_0001	Field Equipment Blank	09/19/2005			1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	EB_TAIT092105_0001	Field Equipment Blank	09/21/2005			1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
FieldBlank	FB_HA052005_0001	Field Trip/Travel Blank	05/20/2005	25 U	2 U	1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	FB_HA052005_0002	Field Trip/Travel Blank	05/20/2005	25 U	2 U	1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	FB_HA092105_0001	Field Trip/Travel Blank	09/21/2005	25 U	2 U	1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	FB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005			1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	FB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005			1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	FB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005			1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	FB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005			1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
TripBlank	TB_HA052005_0001	Field Trip/Travel Blank	05/20/2005	25 U	2 U	1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	TB_HA092105_0001	Field Trip/Travel Blank	09/21/2005	25 U	2 U	1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	TB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005			1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	TB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005			1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	TB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005			1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	TB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005			1 U	1 U	10 U	1 U	1 U		1 U	2 U	5 U
	TRIP BLANK_WG061505_01	Field Trip/Travel Blank	06/14/2005			1 U	1 U		1 U	1 U	1 U	1 U	2 U	

Notes:
ug/L = micrograms per liter
U = not detected above laboratory detection limits
J = estimated concentration
Cells are blank if sample was not analyzed for compound.

BOE-C6-0104677

TABLE III
VOCs IN GROUNDWATER
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

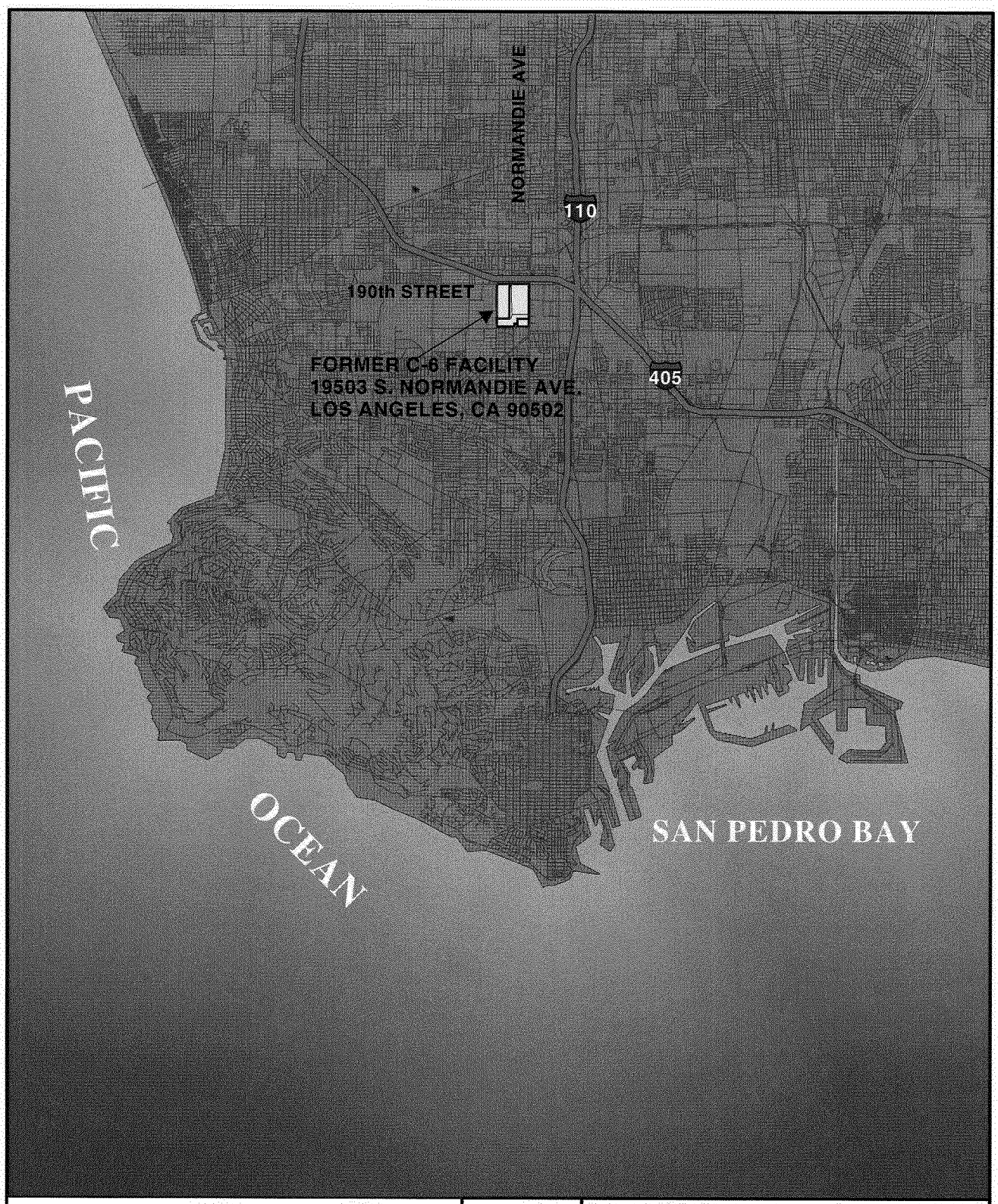
Analyte: CAS Number: Result Value Units:				Vinyl chloride 75014 ug/L	Xylenes, Total 1330207 ug/L
Object Name	**Sample Name**	**Sample Type**	**Date Collected**		
MWC009	MWC009_WG052005_0001	Primary Sample	05/20/2005	12 U	25 U
	MWC009_WG070605_0001	Primary Sample	07/06/2005	3.1 U	6.2 U
	MWC009_WG092105_0001	Primary Sample	09/21/2005	5 U	10 U
MWG001	MWG001_WG052005_0001	Primary Sample	05/20/2005	0.5 U	1 U
	MWG001_WG070705_0001	Primary Sample	07/07/2005	0.5 U	1 U
	MWG001_WG091905_0001	Primary Sample	09/19/2005	0.5 U	1 U
MWG002	MWG002_WG052005_0001	Primary Sample	05/20/2005	0.5 U	1 U
	MWG002_WG052005_0002	Field Duplicate	05/20/2005	0.5 U	1 U
	MWG002_WG070705_0001	Primary Sample	07/07/2005	1 U	2 U
	MWG002_WG091905_0001	Primary Sample	09/19/2005	1 U	2 U
MWG003	MWG003_WG092105_0001	Primary Sample	09/21/2005	0.5 U	1 U
	MWG003_WG092105_0002	Field Duplicate	09/21/2005	0.5 U	1 U
MWG004	MWG004_WG092105_0001	Primary Sample	09/21/2005	0.5 U	1 U
Quality Assurance/ Quality Control Samples					
EquipmentBlank	EB_HA052005_0001	Field Equipment Blank	05/20/2005	0.5 U	1 U
	EB_HA092105_0001	Field Equipment Blank	09/21/2005	0.5 U	1 U
	EB_TAIT070605_0001	Field Equipment Blank	07/06/2005	0.5 U	1 U
	EB_TAIT070705_0001	Field Equipment Blank	07/07/2005	0.5 U	1 U
	EB_TAIT091905_0001	Field Equipment Blank	09/19/2005	0.5 U	1 U
	EB_TAIT092105_0001	Field Equipment Blank	09/21/2005	0.5 U	1 U
FieldBlank	FB_HA052005_0001	Field Trip/Travel Blank	05/20/2005	0.5 U	1 U
	FB_HA052005_0002	Field Trip/Travel Blank	05/20/2005	0.5 U	1 U
	FB_HA092105_0001	Field Trip/Travel Blank	09/21/2005	0.5 U	1 U
	FB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005	0.5 U	1 U
	FB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005	0.5 U	1 U
	FB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005	0.5 U	1 U
	FB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005	0.5 U	1 U
TripBlank	TB_HA052005_0001	Field Trip/Travel Blank	05/20/2005	0.5 U	1 U
	TB_HA092105_0001	Field Trip/Travel Blank	09/21/2005	0.5 U	1 U
	TB_TAIT070605_0001	Field Trip/Travel Blank	07/06/2005	0.5 U	1 U
	TB_TAIT070705_0001	Field Trip/Travel Blank	07/07/2005	0.5 U	1 U
	TB_TAIT091905_0001	Field Trip/Travel Blank	09/19/2005	0.5 U	1 U
	TB_TAIT092105_0001	Field Trip/Travel Blank	09/21/2005	0.5 U	1 U
	TRIP BLANK_WG061505_01	Field Trip/Travel Blank	06/14/2005	1 U	1 U

Notes:
ug/L = micrograms per liter
U = not detected above laboratory detection limits
J = estimated concentration
Cells are blank if sample was not analyzed for compound.

QA/QC: BB
Date: 12/8/2005

BOE-C6-0104678

Figures



N

2 1 0 2 Miles

28882-002

HALEY & ALDRICH

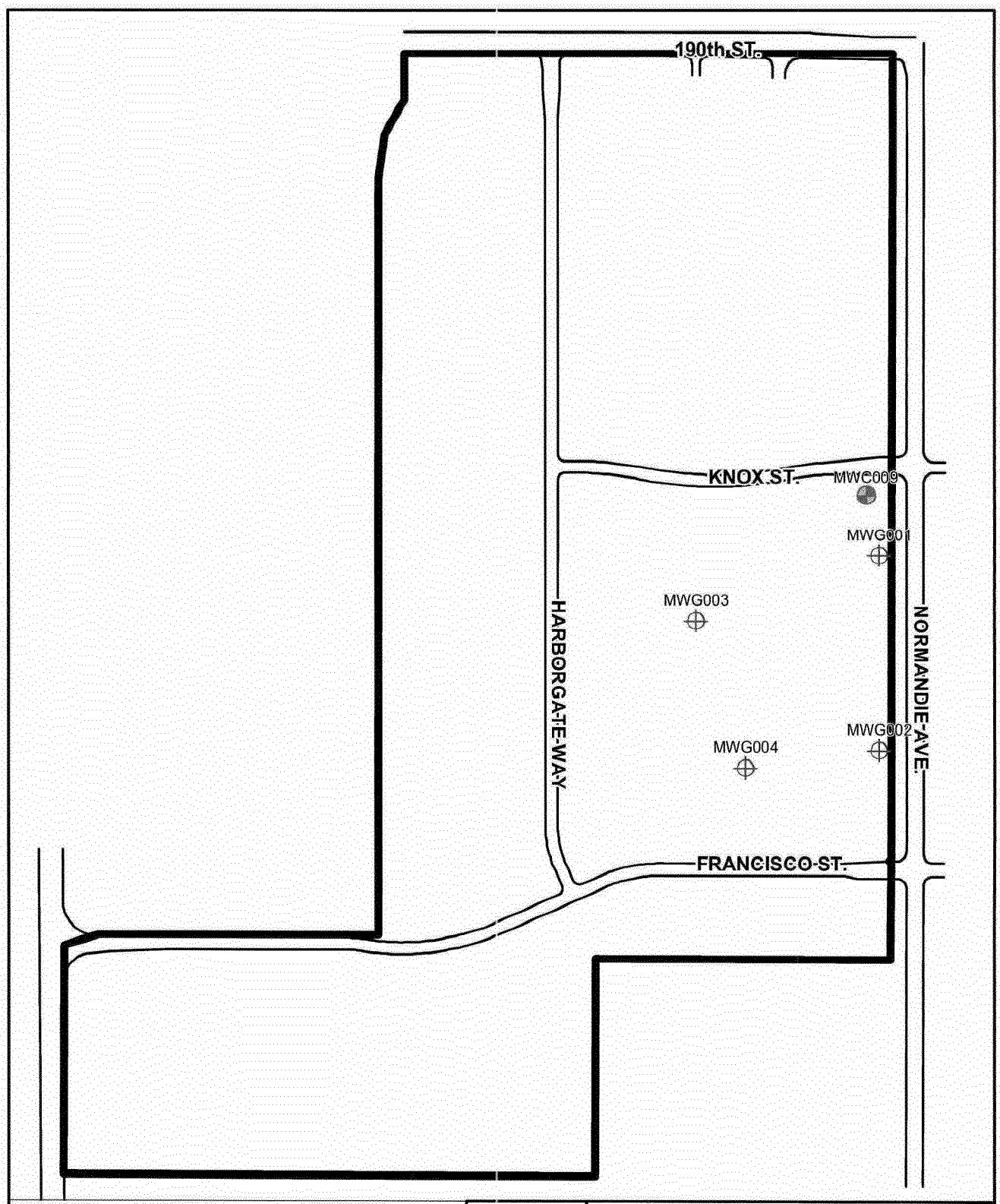
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

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

FIGURE 1

SITE LOCATION PLAN

SCALE AS SHOWN



Legend

- C-Sand Monitoring Well Location
- Gage Monitoring Well Location
- Site Boundary

0 250 500 1,000 Feet

N

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UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

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

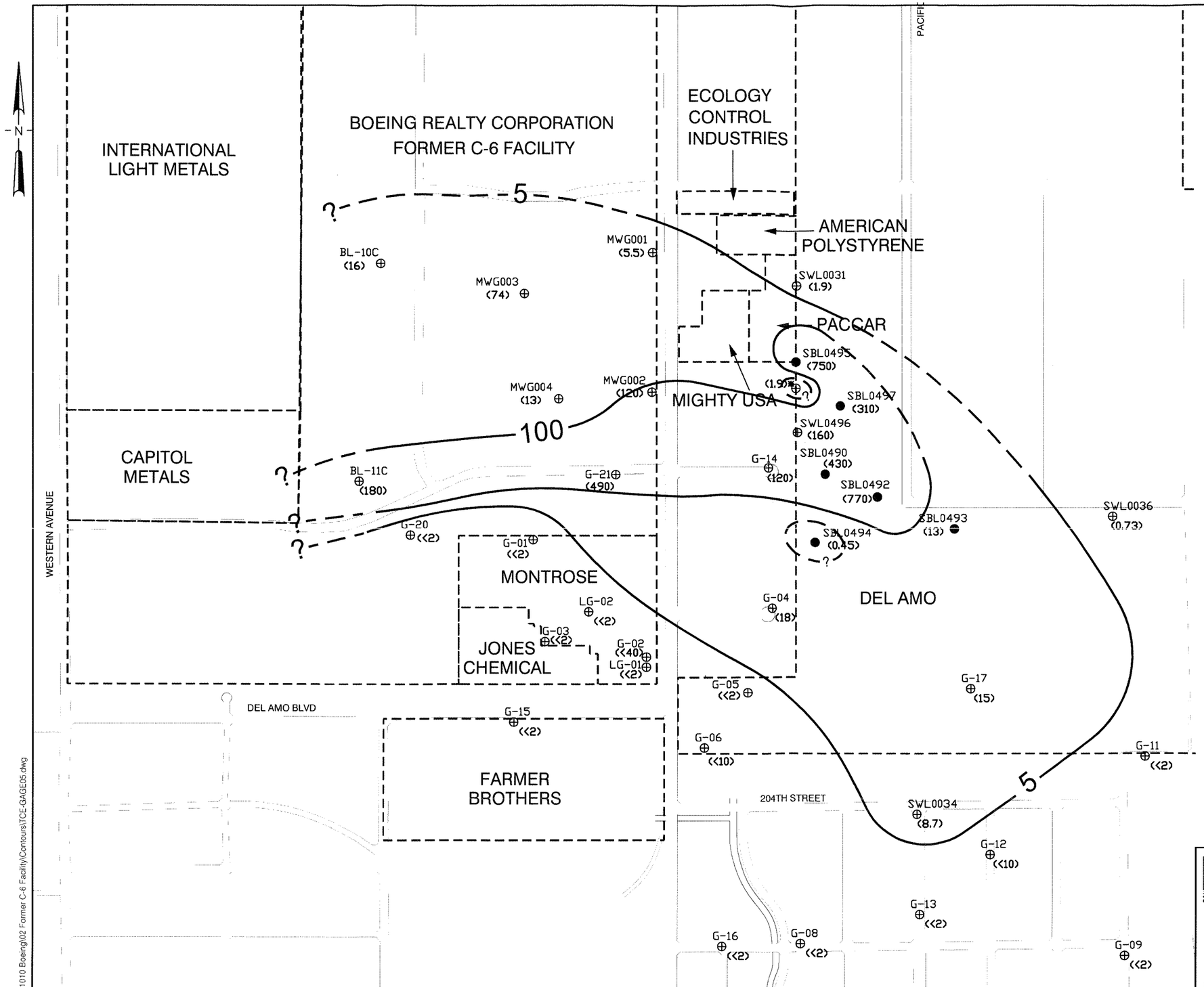
FIGURE 2

GROUNDWATER MONITORING WELL LOCATIONS

SCALE AS SHOWN

NOVEMBER 2005

(28882-610) Figure 2



NOTE:
DATES OF GROUNDWATER SAMPLING EVENTS ARE AS FOLLOWS:

DEL AMO - Monitoring Well Data - January 2004
Hydropunch Data - 2005

MONTROSE - January 2004

ILM - BL-10C - June 2003
BL-11C - April 2004

Boeing - September 2005

* No Well Identification provided.

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA
PROJECT CITY, STATE

FIGURE 3

2005 DISTRIBUTION OF TCE GAGE AQUIFER

SCALE: AS SHOWN

DECEMBER 2005

P:\11010 Boeing\02 Former C-6 Facility\Contours\TCE-GAGE05.dwg

BOE-C6-0104682

P:\1010 Boeing\02 Former C-6 Facility\Contours\Gagew\2005REVISED.dwg

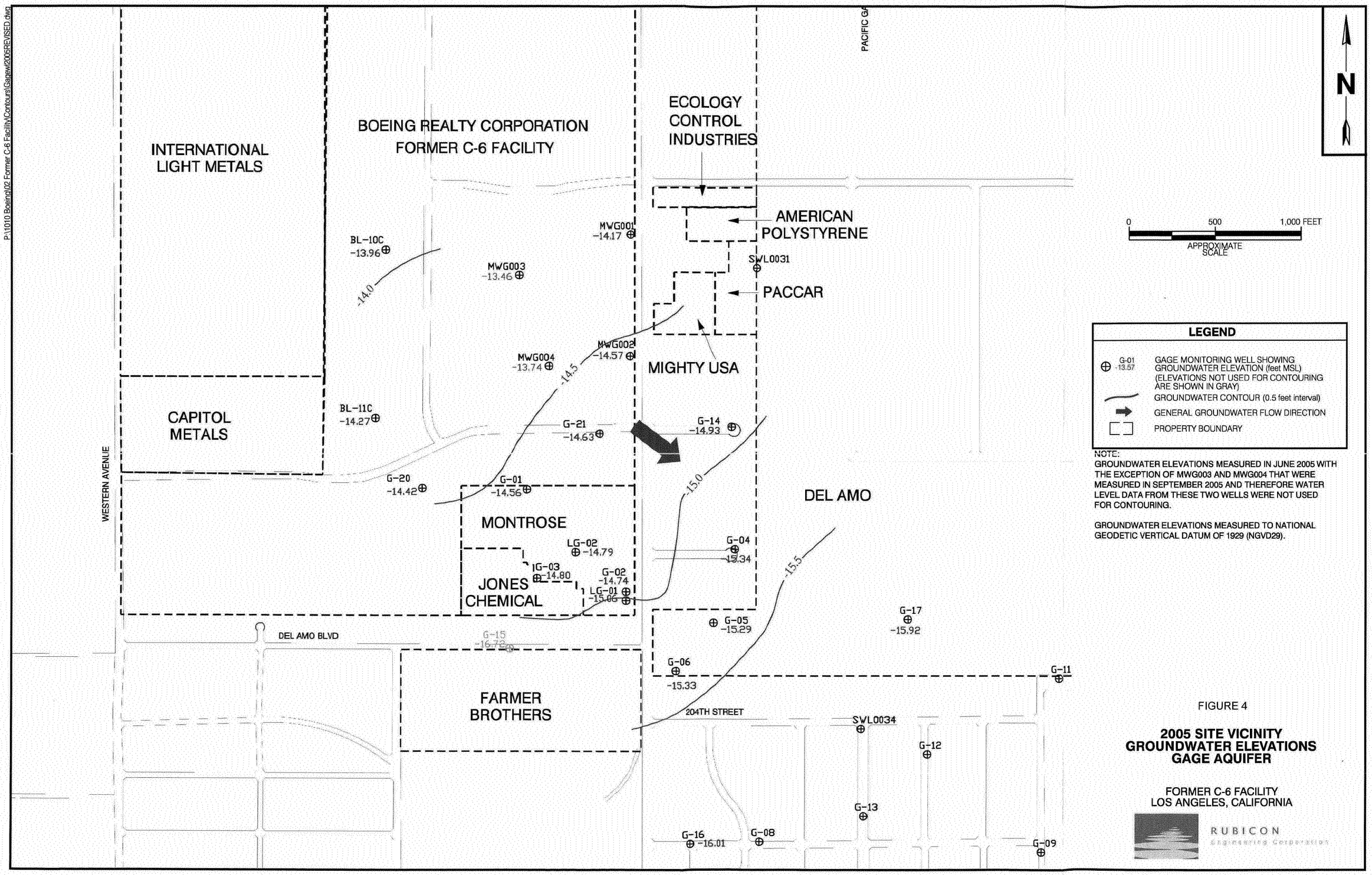


FIGURE 4

2005 SITE VICINITY GROUNDWATER ELEVATIONS GAGE AQUIFER

FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

BOE-C6-0104683

Appendix A

BOE-C6-0104684

APPENDIX A

Well Construction Permits

WATER & SEWAGE / MOUNTAIN & RURAL PROGRAMS - ENVIRONMENTAL HEALTH DIVISION
5050 COMMERCE DRIVE, BALDWIN PARK, CA 91706 (626) 430-5380 FAX (626) 813-3016

DATE: 7/7/05

X NEW WELL CONSTRUCTION	X MONITORING
___ RECONSTRUCTION OR RENOVATION	___ CATHODIC
___ DECOMMISSIONING	___ INJECTION
___ OTHER:	___ EXTRACTION
	___ HEAT EXCHANGE
	___ OTHER (Specify):

WELL LOCATION

SITE ADDRESS 1452 KNOX STREET	CITY LOS ANGELES (TORRANCE)		ZIP CODE 90501
Township	Range	Section	Map Book Page/ Grid THOMAS BROS P764 A-3
NO. OF WELLS IN EACH PARCEL:		Attach site map with well locations SEE ATTACHED	

WELL STRUCTURE

Type and Size of Production Casing	SEE ATTACHED
Sanitary / Annular Sealing Material	(MWG001, MWG002, MWC009)
Depth of Sanitary / Annular Seal	
Conductor Casing Seal	

CONSULTANT

Company	HALEY & ALDRICH
Contact Person	SCOTT ZACHARY
Address	9040 FRIARS RD, SUITE 220
City, State Zip	SAN DIEGO, CA 92108
Telephone	619. 280. 9210

OWNER / DRILLER INFORMATION

Well Owner	BOEING REALTY CORPORATION
Address	2055 LAKEWOOD BLVD. BLDG 1A MCD001-00097
City / Zip Code	LONG BEACH, CA 90846
Telephone	818. 586. 6015
Well Driller	RESONANT SONIC INTERNATIONAL
Address	220 N. EAST STREET
City / Zip Code	WOODLAND, CA 95776
C-57 License No.	802334
Telephone	530. 668. 2424

IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED IN THE FIELD ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS OFFICE, WORK PLAN MODIFICATIONS MAY BE REQUIRED

WELL DECOMMISSIONING

Well Depth log / records	
Method of Well Assessment	
Depth and Number of Perforations	
Type of Perforator Size of Perforations	
Type and Amount of Sealant	
Method of Upper Seal Pressure Application	

DISPOSITION OF PERMIT (Department Use Only)
THIS PERMIT IS CONSIDERED COMPLETE WHEN THE WORK PLAN IS APPROVED AND WHEN THE WELL COMPLETION LOG IS RECEIVED. NO WELL CONSTRUCTION OR DECOMMISSIONING CAN BE INITIATED WITHOUT THE WORK PLAN APPROVAL FROM THIS DEPARTMENT.

[redacted]

Date 04-07-05 REHS Robert Hughes

Conditions

Maintain the required setback for the sewer and water lines

[redacted]

Date REHS

[redacted]

Date REHS

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction and decommissioning. Upon completion of the well and within thirty days thereafter, I will furnish the Environmental Health office with a completion log of the well giving date drilled, depth of the well, perforations in the casing, and any other data deemed necessary by County Environmental Health Division.

Paul R. Jones
Applicant's Signature

Applicant Name: (PRINT) PAUL R. JONES
Telephone: 619. 280. 9210
FAX 619. 280. 9415

76A668-A
H-13 (Rev. 01/2001)

WELL PERMIT APPLICATION - NON-PRODUCTION WELLS

WATER & SEWAGE / MOUNTAIN & RURAL PROGRAMS - ENVIRONMENTAL HEALTH DIVISION
5050 COMMERCE DRIVE, BALDWIN PARK, CA 91706 (626) 430-5380 FAX (626) 813-3016

DATE: 7/27/05

X NEW WELL CONSTRUCTION	X MONITORING	HEAT EXCHANGE
RECONSTRUCTION OR RENOVATION	CATHODIC	OTHER (Specify) :
DECOMMISSIONING	INJECTION	
OTHER:	EXTRACTION	

WELL LOCATION

SITE ADDRESS 1452 Knox Street	CITY Los Angeles (Torrance)		ZIP CODE 90501
Township	Range	Section	Map Book Page/ Grid Thomas Bros p.764 A-3

NO. OF WELLS IN EACH PARCEL: 2 — Attach site map with well locations

WELL STRUCTURE

Type and Size of Production Casing	See Attached
Sanitary / Annular Sealing Material	(MWG003 & MWG004)
Depth of Sanitary / Annular Seal	
Conductor Casing Seal	

CONSULTANT

Company	Haley & Aldrich
Contact Person	Beth Breitenbach
Address	9040 Friars Rd. Ste 220
City , State Zip	San Diego, CA 92108
Telephone	619.285.7109

OWNER / DRILLER INFORMATION

Well Owner	Boeing Realty Corporation
Address	4900 E Conant St., Bldg 1
City / Zip Code	Long Beach, CA 90808
Telephone	562.733.2228
Well Driller	WDC Exploration & Wells
Address	5566 Arrow Highway
City / Zip Code	Montclair, CA 91763
C-57 License No.	283326
Telephone	800.974.2769

IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED IN THE FIELD ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS OFFICE, WORK PLAN MODIFICATIONS MAY BE REQUIRED

WELL DECOMMISSIONING

Well Depth log / records	
Method of Well Assessment	
Depth and Number of Perforations	
Type of Perforator Size of Perforations	
Type and Amount of Sealant	
Method of Upper Seal Pressure Application	

DISPOSITION OF PERMIT (Department Use Only)
THIS PERMIT IS CONSIDERED COMPLETE WHEN THE WORK PLAN IS APPROVED AND WHEN THE WELL COMPLETION LOG IS RECEIVED. NO WELL CONSTRUCTION OR DECOMMISSIONING CAN BE INITIATED WITHOUT THE WORK PLAN APPROVAL FROM THIS DEPARTMENT.

WORK PLAN APPROVAL
This Approval is Valid for 180 Days

Date 8/3/05 REHS Michael Lui

Conditions

PROVIDE proper set backs

Let me know WHEN you will START DRILLING.

For Final Inspection
Call Michael Lui
(626) 430-5398
8 a.m. to 10 p.m.

FINAL INSPECTION

Date 11/8/05 REHS Michael L.

PERMIT ISSUED #634884
The well log must be submitted to this Department prior to issuance of the final approval

Date 7/29/05 REHS Michael Lui

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction and decommissioning. Upon completion of the well and within thirty days thereafter, I will furnish the Environmental Health office with a completion log of the well giving date drilled, depth of the well, perforations in the casing, and any other data deemed necessary by County Environmental Health Division.

Applicant's Signature

Applicant Name: (PRINT) Paul R. Sones PG #6195
Telephone: (619) 285-7102

76A668-A
H-13 (Rev. 01/2001)

FAX (619) 280-9415

BOE-C6-0104687

Appendix B

BOE-C6-0104688

APPENDIX B

Boring Logs

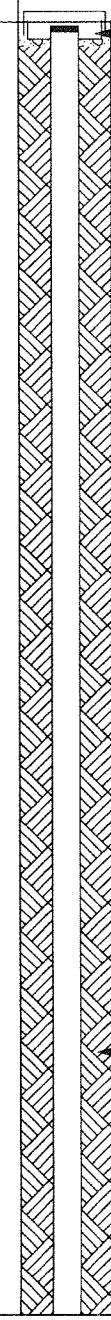
BORING NUMBER MWC009

HALEY & ALDRICH

COMPANY	Haley & Aldrich	DATE STARTED	04/27/2005 08:00
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/28/2005 18:00
LOCATION	Torrance, California	X-COORDINATE	6470654.21
DRILLING METHOD	Hollow Stem Auger	Y-COORDINATE	1769372.12
SAMPLING DEVICE	Core Barrel	TOTAL DEPTH	125.0
GROUND ELEVATION	54.68	LOCATION DESCRIPTION	Surveyed by Tait and Associates
DRILLER NAME	WDC Exploration and Wells	DEPTH TO WATER	--
LOGGED BY	Travis Hammond	MEASURING POINT ELEVATION	53.99
REMARKS		APPROVED BY	Paul Sones, CA P.G. # 6195

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							Asphalt	0.3
							sandy gravel base material	0.7
5					CL		Hand-auger cuttings: stiff to very stiff, red-brown to dark brown, silty CLAY with sand and gravel, occasional concrete and asphalt chunks, no structure, no odor, moist, -fill-	8.0
10					SM		Hand-auger cuttings: stiff, yellow-brown to brown, silty SAND with clay, no structure, no odor, moist	10.5
		10					no recovery	
15		0						
20					ML		medium stiff, brown to light brown, SILT with very fine sand, no structure, no odor, low moisture	20.0
		50					no recovery	22.5
25					ML-SM		medium dense, light brown, very fine sandy SILT to silty very fine SAND, no structure, no odor, moist	25.0
		80			CL		stiff, light brown, silty CLAY, layered, no odor, low moisture	28.0
30		90		0.0	ML		medium stiff, brown, SILT with very fine sand and clay, no structure, no odor, moist	30.0
35				0.0	SM		medium dense, light brown, silty very fine SAND, no structure, no odor, low moisture	35.5
		90			ML		medium stiff, brown, SILT with very fine sand and clay, no structure, no odor, moist	37.0
40		70			CL		very stiff, light brown, silty CLAY, no structure, no odor, low moisture	42.5
							no recovery	43.5
45				0.0	SM		soft, light brown, silty very fine SAND, no structure, no odor, moist	45.0
		80			ML		medium stiff, light brown with rust staining, SILT with clay, layered, no odor, moist	46.5
					SP		dense, gray-brown to tan, poorly graded very fine SAND,	48.0
								50.0

WELL DIAGRAM



H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 5/27/05

HALEY & ALDRICH

BORING NUMBER MWC009

COMPANY	Haley & Aldrich	DATE STARTED	04/27/2005 08:00
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/28/2005 18:00

Continued from Previous Page

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					SM		no structure, no odor, moist		4" PVC Casing
		80		0.0	SP		medium dense, light brown with rust staining, silty very fine SAND with weathered shell fragments up to 1/4-inch, layered, no odor, moist, partially cemented	52.0	
55							hard, tan, cemented very fine to fine SAND, layered, no odor, dry	55.0	
		70		0.1	CH		medium stiff, gray-brown with rust staining, CLAY with silt, layered, no odor, moist	57.0	
					ML		medium stiff, light brown with rust staining, very fine sandy SILT, layered, no odor, moist	58.5	
							no recovery	60.0	
60					CL		very stiff, light brown, silty CLAY, layered, no odor, low moisture	61.0	
					SM			62.0	
		60		0.0	SP		medium dense, light brown with rust staining, silty very fine to fine SAND, no structure, no odor, moist	63.0	
							loose, tan to light brown, poorly graded very fine to fine SAND, layered, no odor, dry	65.0	
65				0.7	CH		no recovery	66.0	
		70					very stiff, light brown with rust staining along bedding planes, CLAY with silt, layered, no odor, moist		
70					SP		dense, light brown, poorly graded very fine to fine SAND, layered, no odor, moist, 1/2-inch layers of silt at 133 feet bgs		
		70		1.5				73.5	
							no recovery	75.0	
75				0.9	SP		medium dense, light brown, poorly graded very fine to fine SAND, no structure, no odor, wet	76.0	
		70			ML		medium stiff, light olive-brown, very fine sandy SILT with clay layers and sand lenses up to 2-inches thick	78.5	
							no recovery	80.0	
80				0.6	SP		loose, light brown, poorly graded fine to medium SAND, layered, no odor, wet	80.5	
					ML		medium stiff, light brown, very fine sandy SILT, layered, no odor, moist	81.5	
		30					no recovery	85.0	
85					SP		medium dense, light brown, poorly graded fine to medium SAND, no structure, no odor, wet, cemented layer at 88 feet bgs		
		60		0.5				88.0	
							no recovery	90.0	
90							medium dense, light brown, poorly graded fine to medium SAND, no structure, no odor, wet		Bentonite Pellets Seal (1/4-inch TR-30 coated pellets)
		80		0.1	SP				
95								96.5	
		80			ML-SM		medium stiff, light brown, very fine sandy SILT to silty very fine SAND, layered, no odor, moist, 2-inch thick clay at 98-feet bgs	98.0	
100					SP		dense, light brown to tan, poorly graded very fine to fine SAND, layered, no odor, moist, shell fragments up to 1/2-inch diameter from 98 to 98.5 feet bgs		Monterey Sand Filterpack (#2/12)
		40					no recovery	102.0	
105					SP			105.0	

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HALEY & ALDRICH

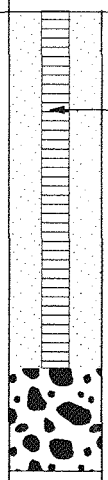
BORING NUMBER MWC009

COMPANY	Haley & Aldrich	DATE STARTED	04/27/2005 08:00
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/28/2005 18:00

Continued from Previous Page

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
		50					dense, light brown to tan, poorly graded very fine to fine SAND, layered, no odor, moist, 4-inch layer of silty very fine sand at 106 feet bgs	107.5
110					SP		no recovery	110.0
				1.1	SP		dense, light brown to tan, poorly graded very fine to fine SAND, layered, no odor, moist	110.5
		50					dense, yellow-brown, poorly graded fine to medium SAND with cemented nodules up to 1-inch diameter, no structure, no odor, moist to wet	112.5
115							no recovery	115.0
		50			SP		dense, yellow-brown, poorly graded fine to medium SAND with cemented nodules up to 1-inch diameter, no structure, no odor, moist to wet	117.5
							no recovery	120.0
120					SM		very dense, light brown, silty very fine SAND, layered, no odor, moist	120.5
		10					no recovery	
125							Bottom of borehole at 125.0 feet.	125.0

WELL DIAGRAM



H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 5/27/05

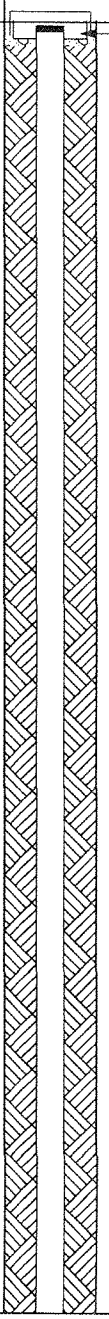
BORING NUMBER MWG001

HALEY & ALDRICH

COMPANY	Haley & Aldrich	DATE STARTED	04/18/2005 16:00
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/22/2005 14:00
LOCATION	Torrance, California	X-COORDINATE	6470702.48
DRILLING METHOD	Sonic	Y-COORDINATE	1769156.15
SAMPLING DEVICE	Core Barrel	TOTAL DEPTH	190.0
GROUND ELEVATION	54.55	LOCATION DESCRIPTION	Surveyed by Tait and Associates
DRILLER NAME	Resonant Sonic International	DEPTH TO WATER	--
LOGGED BY	Travis Hammond	MEASURING POINT ELEVATION	54.13
REMARKS		APPROVED BY	Paul Sones, CA P.G. # 6195

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							Asphalt	0.3
							sandy gravel base material	0.7
5					CL		Hand-auger cuttings: very stiff, red-brown to dark brown, silty CLAY with sand and gravel, maximum particle size (mps): 1/2-inch, no structure no odor, moist, -fill-	8.0
10					SM		dense to very dense, brown to light brown, silty fine to medium SAND with clay, no structure, no odor, moist, -fill-	12.0
				0.5	CL		hard, yellow-brown, sandy silty CLAY, layered, no odor, low moisture	14.0
15		40					no recovery	20.0
20					ML		medium stiff, light brown to olive-brown, SILT with clay and very fine sand, layered, no odor, low moisture	
25		80		0.7				28.0
							no recovery	30.0
30				0.2	CL		stiff, brown, silty CLAY with very fine to fine sand, layered, no odor, low moisture, calcareous material along fractures	34.0
35		70			ML		medium stiff, light brown to brown, SILT with clay and very fine sand, no structure, no odor, low moisture	37.0
							no recovery	40.0
40					ML		medium stiff, light brown, clayey SILT with very fine sand, layered, no odor, moist	44.5
45		90			SM		dense, light brown, silty very fine SAND, no structure, no odor, low moisture	45.5
					CH			46.5
					SP		very stiff, gray-brown to light brown with rust staining, CLAY with silt, no structure, no odor, low moisture	

WELL DIAGRAM



HALEY & ALDRICH

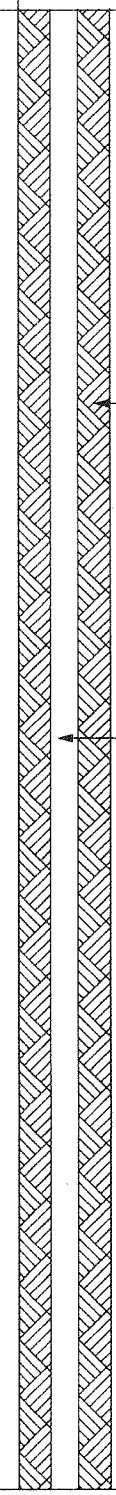
BORING NUMBER MWG001

COMPANY	Haley & Aldrich	DATE STARTED	04/18/2005 16:00
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/22/2005 14:00

Continued from Previous Page

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
				0.4	SP		dense, gray-brown with rust staining, poorly graded very fine to fine SAND with silt, layered, no odor, low moisture, partially cemented with shell fragments from 48 to 49-feet bgs	51.5
55		15					no recovery	
60					SP		loose, light brown with rust staining, poorly graded very fine to fine SAND, no structure, no odor, moist	60.0
					ML		medium stiff, light brown, SILT with very fine sand, layered, no odor, moist	63.0
					SP		dense, light brown, poorly graded very fine SAND with silt, no structure, no odor, moist	63.5
65		100		0.1	SM		medium dense, light brown with rust staining, silty very fine SAND, layered, no odor, moist	65.0
					SP		dense, light brown, poorly graded very fine to fine SAND, layered, no odor, wet	66.5
70				0.5	SM		medium dense, olive-brown, very silty very fine SAND, layered, no odor, moist to wet	70.5
				0.5	ML		medium stiff, olive-brown, very fine sandy SILT, no structure, no odor, moist	72.0
75		60		1.4	SP		medium dense, light brown, poorly graded very fine to fine SAND with silt, no structure, no odor, wet, occasional silt layers up to 1-inch thick	74.0
							no recovery	76.0
80				0.6	ML		medium stiff, yellow-brown to light brown with rust staining, SILT with very fine sand and clay, layered, no odor, moist	80.0
					SP		dense, gray-brown, poorly graded fine to medium SAND, no odor, wet, silt layers up to 2 inches thick	82.5
85		75			SM		medium dense, olive-brown, silty very fine to fine SAND, no structure, no odor, moist	83.5
				2.0	SP		dense, olive-brown to light brown, poorly graded very fine to medium SAND with silt, layered, no odor, moist	85.5
							no recovery	87.5
90				0.1	SP		loose, olive-brown, poorly graded very fine to medium SAND, no structure, no odor, moist	90.0
					SM		dense, olive-brown, silty very fine to fine SAND, layered, no odor, moist	90.5
95		95		0.0	SP		dense, olive-brown, poorly graded very fine to fine SAND with silt, layered, no odor, moist, rust staining along bedding planes	96.5
100					ML		stiff, olive-brown to gray-brown, clayey SILT with very fine sand, layered, no odor, moist	100.0
				0.0	SM		dense, light brown, silty fine to medium SAND with shell fragments up to 3/4-inch diameter, layered, no odor, moist	102.0
105		100			SP		dense, light brown, poorly graded very fine to medium SAND with silt, no structure, no odor, moist	104.0
								107.0

WELL DIAGRAM



H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 5/26/05

HALEY & ALDRICH

BORING NUMBER MWG001

COMPANY	Haley & Aldrich	DATE STARTED	04/18/2005 16:00
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/22/2005 14:00

Continued from Previous Page

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					ML		stiff, light brown to olive-brown, very fine sandy SILT, layered, no odor, moist	109.0	
110				0.2	SP		dense, light brown, poorly graded fine to medium SAND, no structure, no odor, moist to wet	111.0	
				5.2	ML		stiff, olive-brown with rust staining, very fine sandy SILT with clay, layered, no odor, moist	112.0	
					SW		dense, light brown, well graded very fine to medium SAND with shell fragments up to 1/4-inch diameter, no structure, no odor, moist	114.0	
115		80		1.8	SW-SP		dense, light brown with rust staining, well graded very fine to coarse SAND with cemented nodules up to 1/2-inch diameter, no structure, no odor, moist to wet	118.0	
							no recovery	120.0	
120					SW-SP		dense, light brown to yellow-brown, very fine to coarse SAND with gravel (cemented nodules) up to 1/2-inch diameter and occasional shell fragments up to 3/4-inch diameter, shell fragments for a layered structure, no odor, wet	124.5	
125		100		2.3	ML		medium stiff to stiff, olive-brown, very fine sandy SILT with clay, no structure, no odor, moist, color change to gray at 129.5 feet bgs		
				0.1				130.0	
130				0.5	SC		very dense, light brown, clayey fine to medium SAND, no structure, no odor, moist	131.5	
					CL			132.0	
					CH		hard, gray-brown, CLAY with fine to medium sand, no structure, no odor, moist	133.5	
							hard, gray-brown, CLAY, no structure, no odor, moist		
135		70		0.3	ML-MH		stiff, gray to gray-brown, SILT with very fine sand and clay to clayey SILT with very fine sand, layered, no odor, moist	137.0	
							no recovery	8.75" borehole	
140								140.0	
							medium stiff, gray, very fine sandy SILT to silty very fine SAND, no structure, no odor, moist	7.0" borehole	
145		85		0.1	ML-SM				Bentonite Pellets Seal (3/8-inch TR-30 coated pellets)
150				0.1	SP		dense, light brown, poorly graded very fine to fine SAND, occasional banding of slightly darker layers, no odor, moist	150.0	
155		85							
				0.3	CH		hard, light brown with rust staining, CLAY, layered, no odor, moist	157.0	
					SP			157.5	
							dense, light brown, poorly graded fine to medium SAND, layered, no odor, moist	158.5	
160					SP		no recovery	160.0	
				0.2	CH		dense, light brown to gray-brown, poorly graded very fine to medium SAND, layered banding, no odor, moist	161.5	
					SP		hard, mottled light brown and gray, CLAY, no structure, no	162.5	

H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 5/26/05

HALEY & ALDRICH

BORING NUMBER MWG001

COMPANY	Haley & Aldrich	DATE STARTED	04/18/2005 16:00
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/22/2005 14:00

Continued from Previous Page

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
165		95					odor, moist dense, gray-brown, poorly graded very fine to fine SAND, no structure, no odor, moist, occasional lenses of fine to medium SAND, 4-inch thick layer of clay nodules at 168.5 feet bgs, color change to gray to gray-brown from 170 to 180 feet bgs, 6-inches of dark banding at 176 feet bgs, clayey sand layers up to 1/2-inch thick from 186 to 187 feet bgs		
				0.4					
170				0.2					Monterey Sand Filterpack (#2/16)
175		90			SP				2" PVC Slotted Screen 0.02"
180				0.0					
185		70							
								186.5	
							no recovery		Collapsed native material
190								190.0	
							Bottom of borehole at 190.0 feet.		

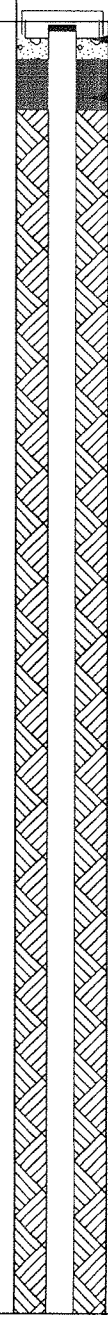
BORING NUMBER MWG002

HALEY & ALDRICH

COMPANY	Haley & Aldrich	DATE STARTED	04/25/2005 09:15
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/28/2005 16:00
LOCATION	Torrance, California	X-COORDINATE	6470701.06
DRILLING METHOD	Sonic	Y-COORDINATE	1768458.71
SAMPLING DEVICE	Core Barrel	TOTAL DEPTH	195.0
GROUND ELEVATION	55.03	LOCATION DESCRIPTION	Surveyed by Tait and Associates
DRILLER NAME	Resonant Sonic International	DEPTH TO WATER	--
LOGGED BY	Travis Hammond	MEASURING POINT ELEVATION	54.78
REMARKS		APPROVED BY	Paul Sones, CA P.G. # 6195

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S./ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							Asphalt	0.3
							sandy gravel base material	0.7
5					CL		Hand-auger cuttings: stiff, red-brown to dark brown, silty CLAY with sand and gravel, no structure, no odor, moist, -fill-	8.0
					CL		stiff, yellow-brown, fine sandy CLAY, no structure, no odor, moist	9.5
10				0.2	CH		medium stiff, dark-brown, sandy CLAY with gravel up to 3/4-inch diameter, no structure, no odor, moist, -fill-	11.5
					SM		medium stiff, yellow-brown, silty very fine SAND, no structure, no odor, low moisture	14.0
15		70			CL		hard, brown, silty CLAY with very fine sand, layered, no odor, low moisture	17.0
							no recovery	20.0
20					ML		medium stiff, brown, SILT with clay and very fine sand, no structure, no odor, moist	25.0
25		85		0.1	CL		medium stiff, brown, silty CLAY, layered, no odor, moist	27.0
				0.0	CH		stiff, brown, CLAY with trace silt, no structure, no odor, moist	30.0
30				1.4	CL		medium stiff, silty CLAY, no structure, no odor, low moisture	32.0
					CH		stiff, brown, CLAY with silt, no structure, no odor, low moisture, occasional calcareous nodules up to 0.25-inch diameter	34.0
35		115			ML		medium stiff, brown, very fine sandy SILT, no structure, no odor, moist	40.5
40				0.2	CL		medium stiff, brown, silty CLAY with very fine sand, layered, no odor, moist	41.5
				0.4	ML		medium stiff, brown, very fine sandy SILT with clay, no structure, no odor, moist	46.0
45		100			CH		stiff, brown, CLAY with trace very fine sand, no structure, no odor, moist	48.5
				0.2	SM		dense, light brown to gray-brown with rust staining, silty	50.0

WELL DIAGRAM



H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 5/26/05

HALEY & ALDRICH

BORING NUMBER MWG002

COMPANY	Haley & Aldrich	DATE STARTED	04/25/2005 09:15
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/28/2005 16:00

Continued from Previous Page

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					ML		very fine SAND, layered, no odor, low moisture medium stiff, brown, SILT with clay, no structure, no odor, moist	52.5	
55		100		0.4	SM		dense, light brown with rust staining, silty very fine SAND, no structure, no odor, low moisture, partially cemented with shell fragments up to 0.5-inch diameter 56 to 60 feet bgs, color change to tan 57 to 60 feet bgs	60.0	
60					CH		very stiff, brown, CLAY with silt, layered, no odor, moist	62.0	
				0.6	SM		dense, light brown, silty very fine SAND with clay, no structure, no odor, moist	64.5	
65		90			SP		medium dense, light brown, poorly graded very fine to fine SAND, no structure, no odor, low moisture	65.0	Cement/ Bentonite Seal (Portland Cement with 5% Bentonite Grout)
				0.3	SM		dense, light brown, silty very fine SAND, layered, no odor, moist	70.5	
70					SP		dense, light brown, poorly graded fine to medium SAND, layered, no odor, moist	75.5	
75		100		0.3	ML		very stiff, light brown with rust staining along bedding planes, very fine sandy SILT with clay, layered, no odor, moist	77.5	
				0.1	SP		dense, light brown, poorly graded fine to medium SAND with silt, layered, no odor, moist	78.5	
80					ML		very stiff, light brown with rust staining along bedding planes, very fine sandy SILT with clay, layered, no odor, moist, 4-inch thick fine to medium SAND at 82.5 feet bgs	84.0	2" PVC Casing
85		90		0.2	SP		dense, light brown to gray-brown, poorly graded fine to medium SAND, layered, no odor, moist	90.0	
90					ML		stiff, light brown with rust staining, clayey SILT, layered, no odor, moist	91.0	
				0.8	SM		medium dense, light brown, silty very fine SAND, layered, no odor, moist	94.0	
95		110		13.2	SP		medium dense, light brown, poorly graded very fine to fine SAND, no structure, no odor, moist, silty layers from 97.5 to 98.5 feet bgs	98.5	
100				44.0	ML		very stiff, light brown to olive-brown with rust staining, clayey SILT with trace very fine sand, layered, no odor, moist, layers of silty very fine sand up to 2-inches thick, color change to gray 102 to 102.5 feet bgs	102.5	
				0.5	SW		dense, gray to gray-brown, well graded fine to coarse SAND with shell fragments and partially cemented clasts up to 0.75-inch diameter, layered, no odor, wet	104.0	
105		95			SP		very dense, gray, poorly graded very fine to fine SAND, layered, no odor, moist		

H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 5/26/05

HALEY & ALDRICH

BORING NUMBER MWG002

COMPANY	Haley & Aldrich	DATE STARTED	04/25/2005 09:15
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/28/2005 16:00

Continued from Previous Page

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
110					SP		very dense, gray, poorly graded very fine to fine SAND, layered, no odor, moist	
115		90		0.2	SC		medium dense, gray (114 to 115.5 feet bgs), light brown (115.5 to 117 feet bgs), clayey fine SAND with shell fragments up to 0.5-inch diameter and partially cemented clasts up to 1.5-inch diameter, no structure, no odor, moist, heterogeneous	114.0
				0.1	SP		dense, light brown to yellow-brown, poorly graded very fine to medium SAND with cemented nodules and shell fragments up to 1-inch diameter, layered, no odor, moist to wet	117.0
120								
125		95		0.0				
130				0.6	SC		medium dense, gray-brown, clayey fine to medium SAND, no structure, no odor, moist	131.0 132.0
135		95			CH		very stiff, gray-brown to olive-brown with rust staining, CLAY, no structure, no odor, low moisture	136.5
140				0.1	ML		stiff, gray to gray-brown, very fine sandy SILT with clay, layered, no odor, moist	8.75" borehole 140.0
145		95		0.0	SM		medium dense, gray, silty very fine to fine SAND with clay, layered, no odor, moist	7" borehole 146.5
150					SP		dense, gray, poorly graded very fine to fine SAND with silt, layered, no odor, moist to wet	
155		100		4.2	ML-SM		stiff, gray to olive-brown, very fine sandy SILT to silty very fine SAND, no structure, no odor, moist	152.0
					CH		medium stiff, gray, CLAY with silt and trace very fine sand, layered, no odor, moist	156.0
160				9.0	CH CL		very stiff, olive-brown, CLAY, no structure, no odor, low moisture	158.0 158.5
					SP		medium stiff, light gray, fine to medium sandy CLAY, no structure, no odor, moist dense, light gray, poorly graded fine to medium SAND, no structure, no odor, moist, 4-inch thick olive-brown clay layer at 160.5 feet bgs	159.0

WELL DIAGRAM

Bentonite Pellets Seal (3/8-inch TR-30 coated pellets)

H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 5/26/05

HALEY & ALDRICH

BORING NUMBER MWG002

COMPANY	Haley & Aldrich	DATE STARTED	04/25/2005 09:15
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/28/2005 16:00

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DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
165		100					dense, light gray, poorly graded fine to medium SAND, no structure, no odor, moist, 4-inch thick olive-brown clay layer at 160.5 feet bgs		
170				2.7					
175		100		0.8					Monterey Sand Filterpack (#2/16)
180					SP				2" PVC Slotted Screen 0.02"
				0.6					
185		95							
				0.1					
190									
195								195.0	Collapsed native material
							Bottom of borehole at 195.0 feet.		

H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 5/26/05

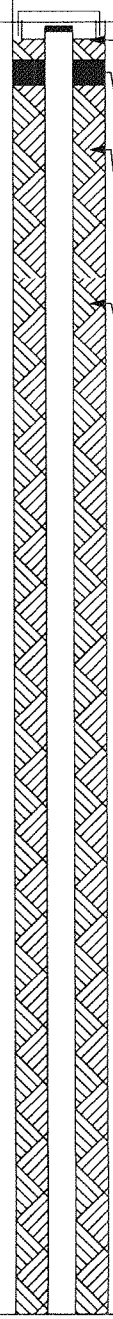
BORING NUMBER MWG003

HALEY & ALDRICH

COMPANY	Haley & Aldrich	DATE STARTED	08/22/2005
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	08/23/2005
LOCATION	Torrance, California	X-COORDINATE	6470014.000
DRILLING METHOD	Sonic	Y-COORDINATE	1768805.000
SAMPLING DEVICE	--	TOTAL DEPTH	185.0
GROUND ELEVATION	--	LOCATION DESCRIPTION	
DRILLER NAME	WDC Exploration & Wells	DEPTH TO WATER	--
LOGGED BY	Jeff Reardon	MEASURING POINT ELEVATION	--
REMARKS		APPROVED BY	Jeff Reardon, CA P.G. # 3679

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S./ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							3" Asphalt	0.3
							sandy GRAVEL, Class II base material	0.5
							no recovery	
5								
10					SM		dense, light brown, silty fine SAND, dry, no odor, no structure	10.0
		80			ML		stiff, dark brown, clayey SILT with fine sand, no odor, low plasticity, thin bedding	13.0
15				2.2			No recovery	15.5
					ML		increasing clay content	18.0
20								22.0
25				8.1	CL		hard, dark brown, silty CLAY with trace fine sand, medium plasticity, dry, no structure, no odor	27.5
		88			ML		stiff, light brown, fine sandy SILT, dry, no odor, no structure	31.0
30				26.1	SM		medium dense, tan, silty fine SAND, dry, no odor, no structure, coarsening downward	35.0
35							No recovery; water bearing zone	
40								
45		75						

WELL DIAGRAM



HALEY & ALDRICH

BORING NUMBER MWG003

COMPANY	Haley & Aldrich	DATE STARTED	08/22/2005
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	08/23/2005

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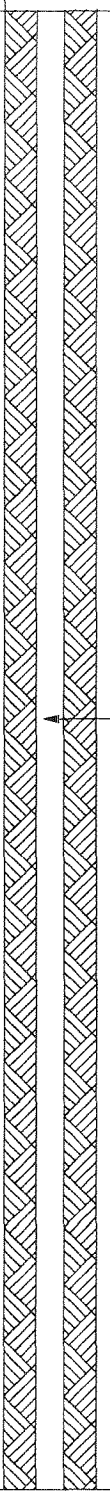
DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							No recovery; water bearing zone	52.0
					SC		medium dense, light brown, clayey SAND with silt, moist, no odor, no structure	54.0
55				94.2	SP		loose, light brown, poorly graded, fine SAND with silt, dry to slightly moist, no odor, no structure	58.0
60							No recovery; water bearing zone	
65								66.0
					SC		medium dense, yellow-brown, clayey SAND, moist to wet, no odor, no structure	67.0
		65			SM		loose to medium dense, tan, silty fine SAND, dry, no odor, no structure	71.0
70					SP		loose, brown, poorly graded, fine SAND with trace silt, dry, no odor, no structure	72.0
75				14.1	ML		stiff, olive-brown, fine sandy SILT, moist, no odor, no structure, low plasticity	77.0
80					SP-SM		dense, light brown, poorly graded, fine SAND to silty fine SAND, wet	82.0
					SP		gravelly SAND	83.0
85					SP-SM		decreasing silt content to 92 feet bgs, and increasing silt content below 92 feet bgs	
90		100						
95					SM		dense, light brown, silty fine SAND with clay, wet, no odor, no structure	94.0
100					ML		stiff, light brown, fine sandy SILT with clay, moist, no structure, no odor, low plasticity	102.0
105					SP		loose, light brown, poorly graded, fine to medium SAND with trace silt, wet, no odor, no structure	105.0

WELL DIAGRAM



H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 9/22/05

HALEY & ALDRICH

BORING NUMBER MWG003

COMPANY	Haley & Aldrich	DATE STARTED	08/22/2005
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	08/23/2005

Continued from Previous Page

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
110		80			SP		loose, light brown, poorly graded, fine to medium SAND with trace silt, wet, no odor, no structure	114.0	
115					SC		dense, orange-brown, silty fine SAND with some clay, wet, no odor, no structure	117.0	
120, 125, 130		90			ML-SM		stiff, light brown, fine to medium sandy SILT to silty fine to medium SAND, moist, no odor, thinly interbedded, trace clay in	134.0	
135							No recovery	135.0	
140		95			SP		loose, olive to orange, poorly graded, medium to coarse SAND, wet, no odor, no structure, Gage sand unit	144.5	Bentonite Pellets Seal (1/4" Bentonite Pellets)
145					ML		dense, brown with olive mottling, clayey SILT, moist, mottled structure, no odor	147.0	
150, 155, 160		95			SP		loose, dark olive-gray, poorly graded, fine SAND, wet, no structure, no odor, coarsening downward to medium sand, 1 foot thick layers of coarse sand at 167 feet and 173 feet bgs		

H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 9/22/05

HALEY & ALDRICH

BORING NUMBER MWG003

COMPANY	Haley & Aldrich	DATE STARTED	08/22/2005
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	08/23/2005

Continued from Previous Page

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
165		100					loose, dark olive-gray, poorly graded, fine SAND, wet, no structure, no odor, coarsening downward to medium sand, 1 foot thick layers of coarse sand at 167 feet and 173 feet bgs		Monterey Sand Filterpack (#2/16) 2" PVC Slotted Screen 0.02"
		100							
170					SP				
175								178.0	
							No recovery		
180		0							
185								185.0	
							Bottom of borehole at 185.0 feet.		

H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 9/22/05

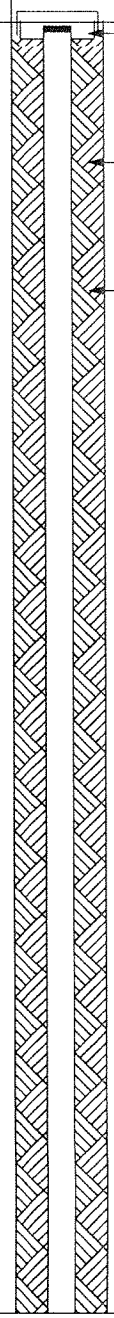
BORING NUMBER MWG004

HALEY & ALDRICH

COMPANY	Haley & Aldrich	DATE STARTED	08/16/2005
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	08/19/2005
LOCATION	Torrance, California	X-COORDINATE	6470246.000
DRILLING METHOD	Sonic	Y-COORDINATE	1768293.000
SAMPLING DEVICE	Sonic Core	TOTAL DEPTH	185.9
GROUND ELEVATION	--	LOCATION DESCRIPTION	Southeast Truck Court
DRILLER NAME	WDC Exploration & Wells	DEPTH TO WATER	--
LOGGED BY	P. Sones/J. Reardon	MEASURING POINT ELEVATION	--
REMARKS		APPROVED BY	Paul Sones, CA P.G. # 6195

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
					GP		3" Asphalt	0.3
							sandy GRAVEL, Class II base material	0.5
					ML		slightly stiff olive-green, SILT with trace fine sand, dry, no structure, no odor	10.0
10				700.5"	ML		stiff, red-brown, SILT with trace clay, dry to moist, no structure, no odor	14.0
15		100			ML		stiff, dark brown, clayey SILT with trace gravel up to 3 cm diameter, mottled structure, no odor	16.0
				1290	ML		medium stiff, olive-brown, SILT with trace fine sand, dry, no structure, no odor	22.0
				10000	ML		stiff, dark brown, clayey SILT, moist, no structure, no odor	23.0
25		95		3470	ML		very hard, dark brown, SILT, dry, no odor, no structure	35.0
30				24				
35				70	ML		hard, light tan, SILT, dry, no structure, no odor	39.0
40				62	ML		dense, light tan, SILT with trace fine sand, very dry, no odor, no structure, no dry strength - crumbles to powder	
45		90		12				

WELL DIAGRAM



H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 9/22/05

BORING NUMBER MWG004

HALEY & ALDRICH

COMPANY	Haley & Aldrich	DATE STARTED	08/16/2005
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	08/19/2005

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DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
55				95	ML		dense, light tan, SILT with trace fine sand, very dry, no odor, no structure, no dry strength - crumbles to powder		
				6.8				59.0	
60					SM		medium dense, olive-brown with orange mottling, silty fine SAND, moist to wet, no odor	60.0	
				198	SP		grades to loose, olive-brown with orange mottling, poorly graded, medium SAND, moist, no structure, no odor	63.0	
					ML		dense, olive with orange mottling, fine sandy SILT, wet, no odor	65.0	
65					SP		loose, light olive, poorly graded, medium SAND, wet, no structure, no odor	66.0	
				245	ML		slightly dense, olive-brown with orange mottling, SILT with some fine sand, wet, no odor	71.0	
70				208	SW		loose, olive-brown, well graded, fine to medium SAND with trace silt, wet, no structure, no odor	78.0	2" PVC Casing
75				300	SW		slightly dense to loose, light olive-brown, well graded, fine to medium SAND with trace silt, wet, no odor, no structure, abundant shell fragments	87.0	
80				455					
85		100		600	SP		loose, light olive-brown, poorly graded, fine SAND, wet, no structure, no odor, light olive with gray mottling at 94 feet bgs		
90				385					
95				320				98.0	
100					ML		dense, light olive-green with orange mottling, SILT with trace clay, moist to wet, no odor	101.0	
105				490	SP		loose to slightly dense, olive-green, poorly graded, fine SAND, moist to wet, no structure, no odor, shell fragments and gravel (1 cm diameter) present between 105 and 106 feet bgs, color change to dark olive-green below 106 feet bgs		

BORING NUMBER MWG004

HALEY & ALDRICH

COMPANY	Haley & Aldrich	DATE STARTED	08/16/2005
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	08/19/2005

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DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
		100		100	SP			109.0	
110				1990	SP		loose, orange to red-brown, poorly graded, medium SAND, wet, no structure, no odor, coarsens downward to medium to coarse sand at 114 feet bgs		
115				1150					
120				375					
125		100						129.0	
130				202	SP		loose, light olive-gray, poorly graded, fine to medium SAND, wet, no odor, no structure		
135				263	SP		loose, dark olive-green, poorly graded, fine SAND with trace silt, wet, no odor, no structure	135.0 136.0	
140		95		9591	SP		loose, tan, poorly graded, fine SAND, wet, no structure, no odor, C sand unit	142.0	Bentonite Pellets Seal (1/4" Bentonite Pellets)
145		100		0.0	CH		very dense, dark olive-green to gray with orange mottling, CLAY with trace silt, moist, very fine laminar structure, high plasticity, C sand/Gage aquitard	145.0	
150		90		0.0	SP CH		dense, light brown, poorly graded, fine to medium SAND, no structure, no odor stiff, olive-brown, mottled, fine to medium sandy CLAY, no structure, no odor	147.5 148.0	
155					SP		medium dense, gray-brown to gray, fine to medium SAND with trace silt, light banding, no odor, grades to dark brown-gray at 157 feet bgs, grades to light gray at 159 feet bgs		
160		85		0.0					

H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 9/22/05

HALEY & ALDRICH

BORING NUMBER MWG004

COMPANY	Haley & Aldrich	DATE STARTED	08/16/2005
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	08/19/2005

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DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
165					SP		medium dense, gray-brown to gray, fine to medium SAND with trace silt, light banding, no odor, grades to dark brown-gray at 157 feet bgs, grades to light gray at 159 feet bgs	169.0	Monterey Sand Filterpack (#2/16) 2" PVC Slotted Screen 0.02"
170					SP		dense, gray, poorly graded, fine SAND with trace silt, no odor, no structure, increasing silt content below 176 feet bgs, silty sand lens at 179 feet bgs	180.0	
175		90		0.0					
180					SM		dense, gray, silty fine SAND, no structure, no odor	185.9	
185							Bottom of borehole at 185.9 feet.		

H&A.CCI MWBS-MWCS.GPJ CH2MHILL.GDT 9/22/05

Appendix C

BOE-C6-0104709

APPENDIX C

Well Development Logs

HALEY & ALDRICH

Well Development Record

Project Name: Boeing C-6
Project Location: 1451 Knox St., LA, CA
Project Number: 28882-110

Well Number: MWG002
Weather: Cloudy w/ showers
Date: 5-6-05
Page: 1 of

Water Level Data (from top of casing)

Total Well Depth (TD): 185.89'
Static Water Level (DTW): 66.07
Standing Water Column (WC) (TD - DTW):

Casing Diameter (inches): 2"
Screen Length (feet):
Borehole Diameter (inches):
Date Installed:

Well Purging Data

Purge Method: Pumping
Well Volume (gallons)
CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)
Number of Volumes to be Purged
Total Gallons to be Purged

(gpm): 2 gpm
Pump Description: Grunfos Ready Flow
Drilling Company: WDC

~~Surging and Bailing~~ Pumping

Start Time: 0818 Finish Time: 0822 Comments: Generator ran out of gas
Start Time: 0836 Finish Time: — Comments:
Start Time: 0836 Finish Time: Comments:
Start Time: 1055 Finish Time: Comments: Increased rate to 2.5 gpm

Pumping Parameters

Time	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. µS (~~mmhos~~/cm)	pH (units)	Comments (color, turbidity, odor, sheen)
0836	0	2	—	—	—	—
0900	48	2	23.30	566	7.96	NTU = 2.7
						ORP = -112.2
						DO = 0.01 mg/L
0945	138	2	24.77	594	7.98	NTU = 0.7
						ORP = 130.0
						DO = -0.01 mg/L
1045	258	2	26.02	613	7.95	NTU = 1
						ORP = 151.5
						DO = -0.01
1200	320	2.5	24.87	604	8.06	DO = 4.42
						NTU = 0.1
						ORP = -193
1300	→	Sample collected				

HALEY & ALDRICH

Well Development Record

MWC009

Project Name	Former C-6 Facility	Date:	5/4/05
Project Location	Los Angeles, CA	Weather:	cloudy
Project Number	28882-110		
Technician	B. Breitenbach	Page	1 of

Water Level Data (from top of casing)

Total Well Depth (TD)	120.1	Casing Diameter (inches)	4
Static Water Level (DTW)	64.20	Screen Length (feet)	20
Standing Water Column (WC) (TD - DTW)	55.9	Borehole Diameter (inches)	
		Date Installed	4/28/05

Well Purging Data

Purge Method	bail/surge/pump	(gpm)	~2
Well Volume (gallons) CD" (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)		Pump Description	Grundfos
		Check Valve?	
Number of Volumes to be Purged			
Total Gallons to be Purged		Drilling Company	WDC

Surging and Bailing

Start Time:	0800	Finish Time:	0900	Comments:	bail
Start Time:	0900	Finish Time:	0920	Comments:	surge
Start Time:	0920	Finish Time:	0945	Comments:	bail
Start Time:		Finish Time:		Comments:	~30 gal bailed

Pumping Parameters

Time	Depth to Water (feet)	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (~~mmhos/cm~~ µS/cm)	pH (units)	Turbidity (NTUs)	Dis. Oxy. (mg/l)	Comments (color, odor, sheen)
0945	64.15	30	2	23.57	754	7.90	5	0.01	
0955	64.12	48		23.64	758	7.89	7	0.08	
1005	64.12	55		23.62	763	7.92	9	0.03	
1015	64.08	67		23.82	742	7.89	11	0.05	
1025	63.99	75		24.20	738	7.83	8	0.09	
1035	63.99	87		24.35	745	7.76	10	0.08	
1045	63.99	100		24.12	740	7.49	15	0.08	
1055	63.97	108		24.08	734	7.56	18	0.06	
1105	63.95	115		23.97	730	7.59	12	0.03	
1115	63.97	122		23.98	732	7.58	14	0.03	
1125	63.99	135		23.99	735	7.49	12	0.01	
1135	64.01	144		23.95	738	7.48	10	0.01	
1145	64.04	150		23.90	739	7.45	9	0.01	
1155	64.02	162		23.89	742	7.47	10	0.02	
1205	63.99	170		23.87	748	7.52	7	0.02	
1215	63.97	185		23.86	755	7.56	7	0.01	
1225	63.96	197		23.88	765	7.55	6	0.01	
1235	63.95	208		23.89	765	7.54	6	0.01	

Total volumes purged ~ 208 gallons

QA/QC: _____

Date:

HALEY & ALDRICH

Well Development Record

MWG001

Project Name	Former C-6 Facility	Date:	5/4/05 - 5/5/05
Project Location	Los Angeles, CA	Weather:	overcast/cloudy
Project Number	28882-110		
Technician	B. Breitenbach	Page	1 of

Water Level Data (from top of casing)

Total Well Depth (TD)	185.7	Casing Diameter (inches)	2
Static Water Level (DTW)	65.88	Screen Length (feet)	30
Standing Water Column (WC) (TD - DTW)	119.82	Borehole Diameter (inches)	
		Date Installed	4/22/05

Well Purging Data

Purge Method	bail/surge/pump	(gpm)	~2
Well Volume (gallons) CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)	-	Pump Description	Grundfos
		Check Valve?	
Number of Volumes to be Purged	-		
Total Gallons to be Purged	-	Drilling Company	WDC

Surging and Bailing

Start Time:	1315	Finish Time:	1345	Comments:	bail
Start Time:	1345	Finish Time:	1505	Comments:	surge
Start Time:	1505	Finish Time:	1535	Comments:	bail
Start Time:	1535	Finish Time:	1555	Comments:	surge

Pumping Parameters

	Time	Depth to Water (feet)	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (~~mmhos~~ cm)	pH (units)	Turbidity (NTUs)	Dis. Oxy. (mg/l)	Comments (color, odor, sheen)
	1555 to 1625 →			bail						
	1625 to 1645 →			surge						~30 gal bailed
5/5	1000	65.92	38	~2	24.62	680	7.82	3	0	
	1010	65.92	49		24.65	673	7.95	7	0.1	
	1020	65.90	62		24.72	645	7.89	10	0.3	
	1030	65.87	75		24.68	657	7.90	12	2.5	
	1040	65.87	85		24.63	648	7.92	9	2.7	
	1050	65.86	97		24.58	654	7.85	15	2.4	
	1100	65.86	110		24.52	672	7.83	24	2.0	
	1110	65.85	120		24.48	665	7.92	36	1.8	
	1122	65.85	130		24.52	642	7.94	18	1.9	
	1132	65.82	144		24.56	654	7.93	25	2.2	
	1142	65.83	149		24.83	652	7.92	13	1.7	
	1152	65.84	154		24.91	682	7.92	47	1.8	
	1220	65.84	159		24.87	674	7.90	51	1.4	
	1230	65.84	165		24.95	683	7.87	46	1.2	
	1240	65.85	175		25.24	692	7.86	40	1.0	

QA/QC: _____

Date:

Well Development Record

Project Name: Former C-6 Facility
Project Location: Los Angeles, CA
Project Number: 28852-110

Well Number: MW0001
Date: 5/5/05
Page: 2 of 2

Field Parameters cont'd

Time	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (~~mmhos~~ µS/cm)	pH (units)	Comments (color, odor, sheen)
1250	186	~2	25.32	693	7.57	
1300	198		25.31	685	7.59	
1310	209		25.30	674	7.58	
1320	219		25.30	695	7.55	
1333	232		25.30	691	7.59	
1343	245		25.32	699	7.55	
1353	255		25.38	687	7.49	
1403	265		25.36	684	7.52	
1413	275		25.42	680	7.54	
1423	287		25.44	685	7.59	
1435	299		25.41	685	7.54	
1445	310		25.50	684	7.59	
1455	322		25.50	684	7.54	
1505	335		25.51	684	7.57	
1515	347		25.48	683	7.52	
1525	355		25.48	687	7.48	
1535	365		25.48	689	7.46	
1545	375		25.54	687	7.45	
1600	389		25.57	684	7.47	
1610	395		25.59	687	7.49	
1620	405		25.58	684	7.50	
1630	415	↓	25.57	684	7.53	

Additional Comments

HALEY & ALDRICH

Well Development Record

Project Name: Boeing C-6
Project Location: 14520 Knox St., Torrance, CA
Project Number: 28882-111

Well Number: MWG 004
Weather: Sunny & v. hot
Date: 9-2-05
Page: 1 of

Water Level Data (from top of casing)

Total Well Depth (TD): 175.24'
Static Water Level (DTW): 63.31'
Standing Water Column (WC) (TD - DTW): 111.94'

Casing Diameter (inches): 2"
Screen Length (feet): 30'
Borehole Diameter (inches): 6"
Date Installed: 8-19-05

Well Purging Data

Purge Method: Bail/Surge/Bail
Well Volume (gallons): NA
CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)
Number of Volumes to be Purged
Total Gallons to be Purged

(gpm): —
Pump Description: Grundfos Rediflo
Drilling Company: WDC

Surging and Bailing

Start Time	Finish Time	Comments
1457	1552	Bailing ≈ 13 gal
1552	1557	Surging
1607	1620	Bailing ≈ 17 gal total

Pumping Parameters

Time	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (~~mmhos~~ µS/cm)	pH (units)	Comments (color, turbidity, odor, sheen)
1621	TD = 184.65'					
1629	Pumping started ⇒ adjusting the flow rate					
1635	Pumping rate adjusted to 4.5 gpm					
1650	67.5	4.5	23.30	721	7.83	NTU = 115.2 DO = 5.73 mg/L ORP = -112.0
1655	90.0	4.5	22.64	711	7.84	NTU = 71.8 DO = 5.10 mg/L ORP = -112.0
1700	112.5	4.5	~~22.68~~ 22.68	~~746~~ 705	7.80	NTU = 60.2 DO = 4.12 ORP = 158

Well Development Record

Project Name _____ Well Number _____
Project Location _____ Date _____
Project Number _____ Page _____ of _____

Field Parameters cont'd

Time	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Comments (color, odor, sheen)
1705	135	4.5	22.69	703	7.80	NTU = 42.2
						DO = 4.40
						ORP = -140.0
1710	157.5	4.5	22.67	699	7.81	NTU = 36.5
						ORP = -120.0
						DO = 4.15
1712	→	Pump	Shut	down	→	total pumped
						= 166.5 gal

Additional Comments _____

HALEY & ALDRICH

Well Development Record

Project Name: Boeing C-6
Project Location: 1452 Knox St., Torrance, CA
Project Number: 28882-111

Well Number: MW6003
Weather: Cloudy (overcast)
Date: 9-2-05
Page: 1 of 1

Water Level Data (from top of casing)

Total Well Depth (TD): 178.15
Static Water Level (DTW): 64.00
Standing Water Column (WC) (TD - DTW): 114.15

Casing Diameter (inches): 2"
Screen Length (feet): 30'
Borehole Diameter (inches): 6"
Date Installed: 08-22-05

Well Purging Data

Purge Method: Bail/surge/Bail
Well Volume (gallons): NA
CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)
Number of Volumes to be Purged
Total Gallons to be Purged

(gpm)
Pump Description: Grundfos Rediflo
Drilling Company: WDC

Surging and Bailing

Start Time: 0830 Finish Time: 1027 Comments: Bailing
Start Time: ~~1029~~ 1029 Finish Time: 1040 Comments: Surging
Start Time: 1041 Finish Time: 1322 Comments: Bailing
Start Time: Finish Time: Comments: 27 gal bailed total

Pumping Parameters

Time	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (~~mmhos~~ µS/cm)	pH (units)	Comments (color, turbidity, odor, sheen)
1323	TD = 185.03'					
1345	→ pumping started ⇒ adjusting pumping rate					
1352	→ flow rate @ 4.5 gpm					
1400	36	4.5	24.42	841	7.56	DO = 5.1 mg/L ORP = -155.6 NTU = 31.3
1410	81	4.5	23.71	888	7.68	NTU = 11.8 ORP = ~~[illegible]~~ -102.0 DO = 5.86 mg/L
1420	126	4.5	23.81	900	7.74	NTU = 7.0 DO = 5.33 ORP = -64.0
1424	→ shutdown → total pumped = 144 gal					

Appendix D

BOE-C6-0104718

APPENDIX D

Survey Report

MONITOR WELLS
FIELD SURVEY SUMMARY

DATE: MAY 19 2005

CLIENT: HALEY & ALDRICH

REFERENCE NUMBER: N\A

LOCATION: HARBOR GATEWAY

CITY/STATE: TORRANCE, CA

CLIENT JOB #: N\A

TAIT & ASSOC. JOB #: SP-3289

VERTICAL CONTROL:

BENCHMARK DATA:

AGENCY: Los Angeles County Public Works Survey Division

B.M. DESIGNATION: Y-3030

ELEVATION: 49.669 M.S.L. (NAVD '88)

MONUMENT DESC.: U.S. G.S. BRASS DISK IN CONC

MONUMENT LOCATION:

600MM W/O CF 9.8M W/O C/L NORMANDIE AVE
& 32M S/O C/L PROD KNOW ST

LICENSED LAND SURVEYOR
MICHAEL SIMON
Exp. 6/30/07
No. 6034
STATE OF CALIFORNIA

Michael Simon

MICHAEL SIMON, P.L.S. 6034
MY REGISTRATION EXP. 6/30/07

SHEET 1 OF 2

MONITOR WELLS
FIELD SURVEY SUMMARY

DATE: MAY 19 2005

TAIT JOB #: SP3289

CLIENT: HALEY & ALDRICH

CLIENT JOB #: N\A

PROJECT LOCATION / ADDRESS: HARBOR GATEWAY

WELL I.D.	NORTHING	EASTING	LATITUDE	LONGITUDE	TOP / CASING ELEVATION		GROUND/RIM ELEVATION	
BL-03	1768754.264	6468958.593	33.8522524556N	118.305326578W	58.66		59.06	M.S.L.
CMW001	1768190.442	6470696.256	33.8507175500N	118.299598222W	54.37		54.96	
CMW002	1767943.069	6470550.41	33.8500366222N	118.300076111W	52.81		53.11	
CMW026	1768610.032	6470275.398	33.8518670472N	118.300988389W	51.53		52.06	
DAC-P1	1769781.474	6468949.184	33.8550749500N	118305367842W	55.13		56.01	
IRZMW001A	1768994.769	6469840.344	33.8529206417N	118.302425003W	56.77		57.29	
IRZMW001B	1768994.769	6469840.344	33.8529206417N	118.302425003W	56.70		57.29	
IRZMW002A	1768995.518	6469836.011	33.8529226889N	118.302429400W	56.66		57.29	
IRZMW002B	1768995.518	6469836.011	33.8529226889N	118.302429400W	56.76		57.29	
IRZMW003A	1768991.86	6469863.506	33.8529128389N	118.302348692W	56.73		57.28	
IRZMW003B	1768991.86	6469863.506	33.8529128389N	118.302348692W	56.78		57.28	
IRZMW0004	1768617.294	6470047.217	33.8518851222N	118.301739950W	53.06		53.49	
IRZMW0005	1768714.735	6470034.102	33.8521527639N	118.301784106W	52.77		53.24	
IRZCMW001	1768666.873	6470214.169	33.8520227306N	118.301190600W	51.74		52.63	
IRZCMW002	1768417.183	6470413.512	33.8513382722N	118.300531628W	55.60		56.31	
IRZCMW003	1768599.674	6470293.899	33.8518387389N	118.300927356W	51.69		52.20	
MWB005	1769069.947	6470228.297	33.8531304167N	118301148050W	52.10		52.61	
MWB012	1769026.169	6470030.881	33.8530084972N	118.301797792W	52.43		53.04	
MWB013	1769403.214	6469588.659	33.8540408861N	118.303257967W	55.33		55.62	

WELL I.D.	NORTHING	EASTING	LATITUDE	LONGITUDE	TOP / CASING ELEVATION		GROUND/RIM ELEVATION	
MWB014	1768394.319	6470276.696	33.8512743222N	118.300981986W	51.69		52.08	
MWB019	1768100.075	6469965.794	33.8504632333N	118.302002989W	55.18		55.68	
MWC015	1768827.939	6470299.802	33.8524660139N	118.300910167W	51.51		52.18	
MWC016	1768727.087	6469983.251	33.8521890333N	118.301951711W	52.61		53.10	
MWC017	1768099.867	6469975.157	33.8504627389N	118.301972150W	55.16		55.70	
MWC021	1768945.554	6470701.477	33.8527924944N	118.299588442W	54.53		54.74	
TMW-10	1768958.122	6470719.541	33.8528271778N	118.299529072W	49.92		50.57	
TMW-11	1768210.625	6470717.166	33.8507731806N	118.299529558W	49.85		50.37	
TMW-14	1768206.109	6469546.171	33.8507511222N	118.303386000W	58.91		59.33	
TMW-15	1768956.598	6469551.341	33.8528133611N	118.303376433W	57.65		58.04	
TMW-04	1769123.153	6470249.906	33.8532767944N	118.301077406W	51.39		51.94	
TMW-06	1768725.357	6470295.158	33.852184100N	118.300924450W	51.72		52.13	
WCC-12S	1769502.903	6470502.633	33.854322350N	118.300248800W	51.32		51.80	
WCC-4S	1769863.607	6470495.701	33.8553134389N	118.300275181W	52.23		52.68	
WCC-5S	1769785.95	6470717.792	33.8551018722N	118.299542956W	52.82		53.31	
WCC-7S	1769702.203	6470501.455	33.8548699778N	118.300254642W	52.21		52.85	
WCC-9S	1769416.441	6470679.596	33.8540862222N	118.299665128W	57.39		55.06	
XMW-09	1767936.798	6470402.879	33.8500181806N	118.300561917W	53.16		53.58	
XMW-19	1768545.398	6470718.482	33.8516930833N	118.299528508W	49.38		49.78	
MWG001	1769156.146	6470702.484	33.8533711694N	118.299587192W	54.13		54.55	
MWG002	1768458.709	6470701.055	33.8514547361N	118.299585053W	54.78		55.03	
MWC009	1769372.117	6470654.211	33.8539642194N	118.299748297W	53.99		54.68	

MONITOR WELLS
FIELD SURVEY SUMMARY

DATE: SEPT. 2005

CLIENT: HALEY & ALDRICH

REFERENCE NUMBER: N\A

LOCATION: HARBOR GATEWAY

CITY/STATE: TORRANCE, CA

CLIENT JOB #: N\A

TAIT & ASSOC. JOB #: SP-3289

VERTICAL CONTROL:

BENCHMARK DATA:

AGENCY: Los Angeles County Public Works Survey Division

B.M. DESIGNATION: Y-3030

ELEVATION: 49.669 M.S.L. (NAVD '88)

MONUMENT DESC.: U.S. G.S. BRASS DISK IN CONC

MONUMENT LOCATION:

600MM W/O CF 9.8M W/O C/L NORMANDIE AVE
& 32M S/O C/L PROD KNOW ST

LICENSED LAND SURVEYOR
MICHAEL SIMON
Exp. 6/30/07
No. 6034
STATE OF CALIFORNIA

Michael Simon

MICHAEL SIMON, P.L.S. 6034
MY REGISTRATION EXP. 6/30/07

SHEET 1 OF 2

MONITOR WELLS
FIELD SURVEY SUMMARY

DATE: 1-Sep-05

TAIT JOB #: SP3289

CLIENT: HALEY & ALDRICH

CLIENT JOB #: N\A

PROJECT LOCATION / ADDRESS: HARBOR GATEWAY

WELL I.D.	NORTHING	EASTING	LATITUDE	LONGITUDE	TOP / CASING ELEVATION		GROUND/RIM ELEVATION	
MWG003	1768922.519	6470052.453	33.852723864N	118.301725722W	53.08		53.50	
MWG004	1768395.62	6470226.663	33.851277484N	118.301146777W	52.05		52.50	

Appendix E

BOE-C6-0104725

APPENDIX E

Groundwater Sampling Data Sheets

Groundwater Sampling Data Sheet

Project Name:	C6	**Date:**	5/20/05
Project No.:	28882-110	**Prepared By:**	TRAVIS HAMMOND
Well Identification:	MWG002	**Weather:**	CLEAR & CALM, 85-90°
Measurement Point Description:	NORTH SIDE OF WELL CASING		

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	67.06	191.9	124.84	NA	19.97 = 20	60

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	4	6	0.02	0.16	0.65	1.47

Field Equipment: GRUNFOS 2" SUBMERSIBLE PUMP, YSI 650 MDS WATER QUALITY METER

Purge Method: SUBMERSIBLE PUMP

Well Condition: GOOD

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity ~~(S/m)~~ µS/cm	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1531	0.5	10	1.0	67.95	7.83	24.60	5.0	645	-0.02	-185.7	SLIGHT H_2S ODOR
1541	1.0	20	1.0	68.0	8.04	24.02	6.1	749	-0.00	-236.7	H_2S ODOR
1551	1.5	30	1.0	68.0	8.02	23.97	1.9	718	-0.00	-236.1	
1601	2.0	40	SKIPPED DUE TO LABELING DRUMS & MOVING EQUIPMENT								
1611	2.5	50	1.0	68.0	8.03	24.49	3.3	672	-0.01	-181.8	
1621	3.0	60	1.0	68.0	8.02	24.18	1.6	647	-0.01	-190.8	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1521	1621	1.0	60	3	—	68.0	16:25	MWG002_WG052005_0001
							1630	& MWG002_WG052005_0002

Notes:

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
G:\Projects\ENVIRONMENTAL\28882_C6ProjectMngmt\002\2004 GW Monitoring Wkpln\Well Sampling form.doc

Groundwater Sampling Data Sheet

Page __ of __

Project Name:	C6	**Date:**	5/20/05
Project No.:	28882-160	**Prepared By:**	TRAVIS HAMMOND
Well Identification:	MWG001	**Weather:**	CLEAR & CALM WIND 85-90°
Measurement Point Description:	NORTH SIDE OF MW CASING		

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	66.05	185.9	119.85	NA	19.17 = 20	60

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	(2)	4	6	0.02	(0.16)	0.65	1.47

Field Equipment: 2" SUBMERSIBLE PUMP - GRUNDFOS, YSI 650MDS (WATER QUALITY METER)

Purge Method: SUBMERSIBLE PUMP

Well Condition: GOOD

Time (15H)	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity ~~(S/m)~~ µS/cm	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
13:03	0	0	1.0	66.7							
13:23	1	20	1.0	66.7	7.92	24	2.4	624	0.0	-99.7	H_2S ODOR
1333	1.5	30	1.0	66.7	7.95	23.88	1.4	623	0.0	-150.3	
1348	2.25	45	1.0	66.6	7.81	24.24	0.1	627	-0.2	-163.3	
1353	2.5	~~40~~ 50	1.0	66.55	7.80	24.17	-0.1	627	-0.2 ~~-0.02~~	-164.2	
1403	3.0	(15H) 60	1.0	66.55	7.80	(15H) 80% 24.13	-0.2	627	-0.2 ~~-0.02~~ (15H)	-166.4	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
13:03	14:05	1.0	62	~3.0	—	66.55	14:05	MWG001_WG052005_0001

Notes: DID NOT HAVE CALIBRATION KIT FOR WATER QUALITY METER, DO SEEMS LOW.
PUMP SET @ 21' (BMP)

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
G:\Projects\ENVIRONMENTAL\28882_C6ProjectMngmt\002\2004 GW Monitoring Wkpln\Well Sampling form.doc

Groundwater Sampling Data Sheet

Page __ of __

Project Name:	C6	**Date:**	5/20/05
Project No.:	28882-110	**Prepared By:**	TRAVIS HAMMOND
Well Identification:	MWC009	**Weather:**	CLEAR & BREEZY 85°
Measurement Point Description:	NORTH SIDE OF WELL CASING		

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	64.34	120.2	55.86	NA	36.3	108.9

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	4	6	0.02	0.16	0.65	1.47

Field Equipment: GRUNFOS 2" SUBMERSIBLE PUMP, YSI 650 MDS WATER QUALITY METER

Purge Method: SUBMERSIBLE PUMP

Well Condition: GOOD

Time ~~17:27~~	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity ~~(S/m)~~ µS/cm	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
17:27 ~~17:36~~	0.5	18	2.0	65.45	7.59	23.21	8.8	775	0.08	13.2	
1736 ~~17:45~~	1.0	36	2.0	65.50	7.58	23.41	80.0	782	0.06	-37.7	
1745 ~~17:54~~	1.5	54	2.0	65.50	7.53	23.13	13.0	779	0.03	-33.4	
~~18:03~~ 17:54	2.0	72	2.0	65.50	7.54	23.48	14.4	776	0.03	-27.0	
18:03 ~~18:12~~	2.5	90	2.0	65.50	7.53	23.00	16.0	780	0.02	-20.8	
18:~~18:21~~	3.0	108	2.0	65.50	7.53	23.02	14.5	782	0.01	-21.0	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
17:18	18:12	2.0	108	3	—	65.50	18:15	MWC009 - WG052005 - 0001 ~~MWG0~~

Notes:

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
G:\Projects\ENVIRONMENTAL\28882_C6ProjectMngmt\002\2004 GW Monitoring Wkpln\Well Sampling form.doc

BOE-C6-0104729

Groundwater Sampling Data Sheet

Project Name:	BOEING C-6	**Date:**	9-21-05
Project No.:	28882-111	**Prepared By:**	J.A. Miller (H+A)
Well Identification:	MWG-003	**Weather:**	Clear ~70°F @ 0900
Measurement Point Description:			

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
—	63.98	185.00	121.02	—	19.36	58.09

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	4	6	0.02	0.16	0.65	1.47

Field Equipment: Grundfos Rediflo w/ dedicated tubing
Purge Method: Purge 3 well volumes
Well Condition: Good / New

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph ✓✓	Temperature (°C) ✓✓	Turbidity (NTU) *✓	Conductivity (S/m) ✓✓	Dissolved Oxygen (mg/L) ✓	ORP (mV) ✓	Observations
1100 ~~0915~~	0	0		63.98							START PURGE.
1110	~0.5	~10 gal	~1.25 gpm	64.30	7.89	23.11	311.0	1.07	0.14	-191	None
1130	~1.5	~25 gal	~1.10 gpm	64.20	7.88	23.12	618.0	1.05	0.09	-187	*Turb. sensor likely malfunctioning - water v. clear
1145	2	~40 gal	~1.10 gpm	64.20	7.89	23.20	650.0	1.05	0.08	-188	
1200	3	~60 gal	~1.10 gpm	64.20	7.90	23.17	652.0	1.05	0.08	-189	READY TO SAMPLE

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification

Notes: pump @ ~175' BGS. Duplicate sample collected
Headspace screen for well vault ⇒ 2.6 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
C:\Documents and Settings\jami\Local Settings\Temporary Internet Files\OLK65\Well Sampling form.doc

Groundwater Sampling Data Sheet

Project Name:	C-6 Torrence	**Date:**	9-21-05
Project No.:	28882-111	**Prepared By:**	JAM
Well Identification:	MWC6-004	**Weather:**	CLEAR ~75°F
Measurement Point Description:	TOP OF PVC CASING		

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
—	63.25	185.0 ft	121.75	—	19.48	58.44

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	4	6	0.02	0.16	0.65	1.47

Field Equipment: Grundfos Redi-flo pump + dedicated poly tubing

Purge Method: Grundfos + poly tubing → U-22-Drums

Well Condition: Good - New

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1330	0			63.28							START PURGE
1400	~1.0	~20.0	~1.15 gal	63.58	7.87	23.08	346.0	0.744	0.15	-210	
1415	~2.0	~40.0	~1.15 gal	63.50	7.93	23.32	525.0	0.743	0.11	-209	
1430	~3.0	~55	~1.15 gal	63.55	7.96	23.24	"-5.0"	0.737	0.10	-210	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification

Notes: * turbidity reading suspect → water clear after purging initial water in well casing.
PUMP @ ~175' BGS. Headspace screen for well vault ⇒ 0.4 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
C:\Documents and Settings\jami\Local Settings\Temporary Internet Files\OLK65\Well Sampling form.doc

Appendix F

BOE-C6-0104732

APPENDIX F

Laboratory Analytical Reports

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

May 24, 2005

STL LOT NUMBER: E5D250161
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

Scott Zachary
Haley & Aldrich Inc
9040 Friars Road
Suite 220
San Diego, CA 92108

Dear Mr. Zachary,

This report contains the analytical results for the five samples received under chain of custody by STL Los Angeles on April 25, 2005. These samples are associated with your Boeing former C6 facility Torrance, California project.

All applicable quality control procedures met method-specified acceptance criteria. 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.

The geotechnical tests were performed by PTS Laboratories. Please see attached report for any related anomalies.

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 000016 total pages in this report.

E5D250161

[redacted]

'hain of 'ustody Record

..4124 (0901)

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc

'ient: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 4/22/05	Chain of Custody Number: 142428
'dress: 9040 FRIARS RD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619.280.9210	Lab Number: E5D250161	Page 1 of 1
'ty: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact: T. HAMMOND; Lab Contact: D. SUZUKI		
'oject Name and Location (State): BOEING C6	Carrier/Waybill Number:		
'ontract/Purchase Order/Quote No.: 28882-110			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description ('ontainers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	6" SLEEVE	MOISTURE CONTENT (ASTM D 2216)	BULK DENSITY (ASTM D 2937)	VERTICAL HYDRAULIC COND. (API RP 40 ASTM D5084)	TOTAL ORG. CARBON (WALKLEY-BLACK)	POROSITY (API RP 40)	GRAIN SIZE DISTR. (ASTM D 422)							Special Instructions/ Conditions of Receipt
MWG001_SS101_0001	4/19/05	17:30				X								2	X	X	X	X	X	X							
MWG001_SS122_0001	4/20/05	11:50				X		1								X				X							
MWG001_SS145_0001	4/20/05	12:05				X		1								X				X							
MWG001_SS133_0001	4/20/05	12:45				X		1						1	X	X	X	X	X	X							
MWG001_SS165_0001	4/21/05	10:30				X		1								X				X							

'ossible 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)

'urn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other NORMAL

QC Requirements (Specify):

Relinquished By: [signature]	Date: 4/22/05	Time: 11:55	1. Received By: Vincent Padilla	Date: 4/22/05	Time: 1155
Relinquished By: Vince Padilla	Date: 4/22/05	Time: 1805	2. Received By: Matt [signature]	Date: 4-22-05	Time: 18:05
Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

'omments: Temp 5.5 - 0.1 = 5.4

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

2

BOE-C6-0104735

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 4-25-05

LIMS Lot #: E5D250161 Quote #: 42295

Client Name: Haley + Aldrich Project: C6

Received by: MQ Date/Time Received: 42205 1805

Delivered by : ☐ Client ☑ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other VP

********** **Initial / Date**

Custody Seal Status Cooler: ☐Intact ☐Broken ☑None ..... DS 42505

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 0.1 °C IR passed daily verification ☑ Yes ☐No .....

Temperature - **BLANK** 5.5 °C +0.1 CF = 5.4 °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: DS 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...

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

PTS Labs .....

.....

.....

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

Headspace Anomaly ☑N/A DS 4-25-05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # ESD250161

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1	2	3	4	5									
VOAH/ *														
Sleeve	2			1										
bag		1	1	1	1									

* 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 128 4-25-05

- **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: Stuart 4-25-05

PM Review/Date: MVC 4/25/05

BOE-C6-0104737

SEVERN TRENT STL

Subcontract Reports

PTS Laboratories
ENVIRONMENTAL SERVICES

May 9, 2005

Ms. Diane Suzuki
Severn Trent Laboratories
1721 S. Grand Ave.
Santa Ana, CA 92705

Re: E5D250161
PTS File: 35271

Dear Ms. Suzuki:

Enclosed are final data for samples submitted from your E5D250161Project. Electronic versions of the data have been previously sent to your attention. All analyses were performed by applicable ASTM, EPA or API methodology. The samples are currently in storage and will be held for thirty days before disposal.

We appreciate the opportunity to be of service and trust these data will prove beneficial in the development of this project. Please call me at (562) 907-3607 with any questions or if you require additional information.

Sincerely,
PTS Laboratories, Inc.

Larry Kunkel
District Manager

LAK:vk

Encl.

8100 Secura Way – Santa Fe Springs, CA 90670
Phone 562.907.3607 Fax 562.907.3610
www.ptsgeolabs.com

PHYSICAL PROPERTIES DATA

PROJECT NAME: N/A
PROJECT NO: E5D250161

		METHODOLOGY:	ASTM D2216	API RP40		ASTM D5084	
						25.0 PSI CONFINING STRESS	
SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENT. (1)	MOISTURE CONTENT (% wt)	BULK DENSITY (g/cc)	TOTAL POROSITY, % Vb	NATIVE STATE EFFECTIVE PERMEABILITY TO WATER (2,3) (millidarcy)	NATIVE STATE EFFECTIVE HYDRAULIC CONDUCTIVITY (2,3) (cm/s)
MWG001_SS101_0001	N/A	V	32.2	1.37	47.8	1.75	1.71E-06
MWG001_SS122_0001	N/A	V	--	1.62	--	--	--
MWG001_SS145_0001	N/A	V	--	1.55	--	--	--
MWG001_SS133_0001	N/A	V	28.1	1.38	37.9	0.027	2.66E-08
MWG001_SS165_0001	N/A	V	--	1.43	--	--	--

(1) Sample Orientation: H = horizontal; V = vertical (2) Native State = As received with pore fluids in place (3) Permeability to water and conductivity measured at saturated conditions Vb = Bulk Volume, cc

ORGANIC CARBON DATA

(METHODOLOGY: WALKLEY-BLACK)

PROJECT NAME: N/A
PROJECT NO: E5D250161

SAMPLE ID.	DEPTH, ft.	MATRIX	TOTAL ORGANIC CARBON (mg/kg)
MWG001_SS101_0001	N/A	SOIL	1450
MWG001_SS133_0001	N/A	SOIL	1000

F6E361272

PTS Laboratories, Inc.

STL, Inc.
PTS File No: 35271

PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

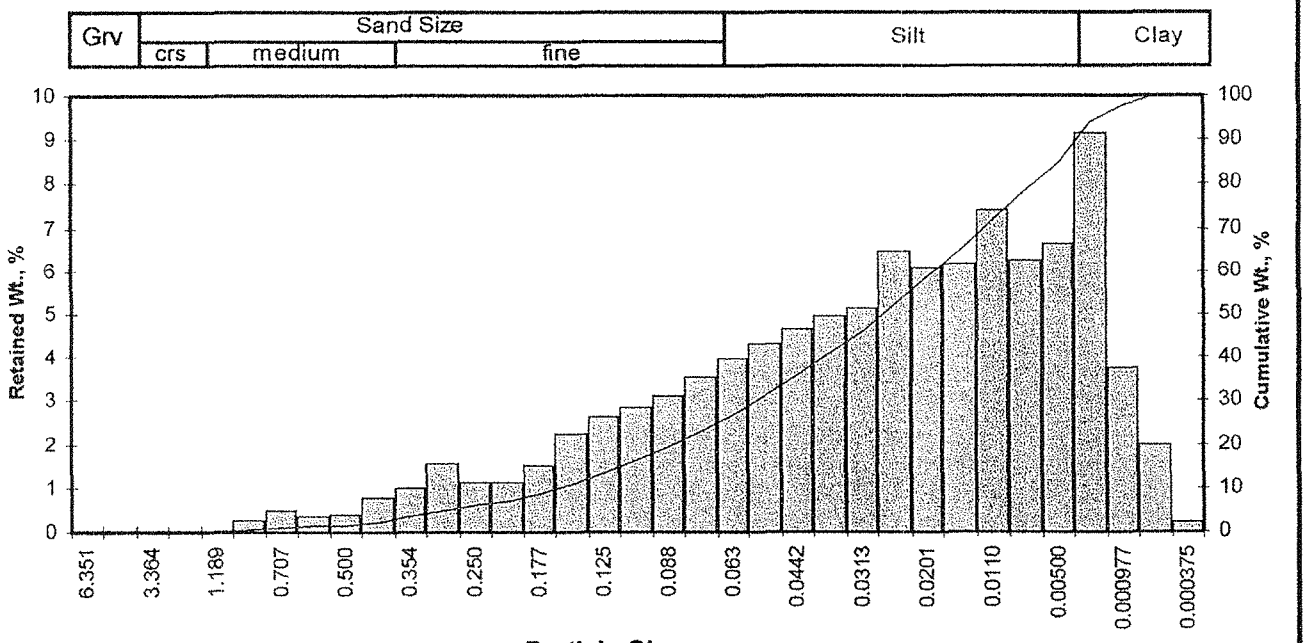
ROJECT NAME: N/A
ROJECT NO: E5D250161

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
MWG001_SS101_0001	N/A	Silt	0.027	0.00	0.00	2.23	20.71	61.98	15.08	77.06
MWG001_SS122_0001	N/A	Medium sand	0.331	12.22	9.04	14.83	58.90	(2)	(2)	5.01
MWG001_SS145_0001	N/A	Silt	0.066	0.00	0.00	1.17	45.65	43.32	9.87	53.18
MWG001_SS133_0001	N/A	Silt	0.042	0.00	0.00	0.01	32.45	56.62	10.92	67.54
MWG001_SS165_0001	N/A	Fine sand	0.257	0.00	0.00	18.56	68.55	10.26	2.63	12.89

(1) Based on Mean from Trask
(2) Dry sieve data does not differentiate silt/clay fractions

PTS Laboratories, Inc. — **Particle Size Analysis - ASTM D4464M**

Client:	STL, Inc.	**PTS File No:**	35271
Project:	N/A	**Sample ID:**	MWG001_SS101_0001
Project No:	E5D250161	**Depth, ft:**	N/A



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.25	0.25	0.25
0.0278	0.707	0.50	25	0.47	0.47	0.72
0.0234	0.595	0.75	30	0.36	0.36	1.08
0.0197	0.500	1.00	35	0.38	0.38	1.46
0.0166	0.420	1.25	40	0.77	0.77	2.23
0.0139	0.354	1.50	45	1.01	1.01	3.24
0.0117	0.297	1.75	50	1.56	1.56	4.80
0.0098	0.250	2.00	60	1.14	1.14	5.94
0.0083	0.210	2.25	70	1.11	1.11	7.05
0.0070	0.177	2.50	80	1.51	1.51	8.56
0.0059	0.149	2.75	100	2.23	2.23	10.79
0.0049	0.125	3.00	120	2.65	2.65	13.44
0.0041	0.105	3.25	140	2.85	2.85	16.29
0.0035	0.088	3.50	170	3.11	3.11	19.40
0.0029	0.074	3.75	200	3.54	3.54	22.94
0.0025	0.063	4.00	230	3.95	3.95	26.89
0.0021	0.053	4.25	270	4.29	4.29	31.18
0.00174	0.0442	4.50	325	4.64	4.64	35.82
0.00146	0.0372	4.75	400	4.97	4.97	40.79
0.00123	0.0313	5.00	450	5.13	5.13	45.92
0.000986	0.0250	5.32	500	6.45	6.45	52.37
0.000790	0.0201	5.64	635	6.08	6.08	58.45
0.000615	0.0156	6.00		6.15	6.15	64.60
0.000435	0.0110	6.50		7.40	7.40	72.00
0.000308	0.00781	7.00		6.27	6.27	78.27
0.000197	0.00500	7.65		6.65	6.65	84.92
0.000077	0.00195	9.00		9.15	9.15	94.07
0.000038	0.000977	10.00		3.75	3.75	97.82
0.000019	0.000488	11.00		1.98	1.98	99.80
0.000015	0.000375	11.38		0.20	0.20	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	1.79	0.0114	0.288
10	2.66	0.0062	0.158
16	3.22	0.0042	0.107
25	3.88	0.0027	0.068
40	4.71	0.0015	0.038
50	5.20	0.0011	0.027
60	5.73	0.0007	0.019
75	6.74	0.0004	0.009
84	7.56	0.0002	0.005
90	8.40	0.0001	0.003
95	9.25	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	5.20	5.20	5.20
Median, in.	0.0011	0.0011	0.0011
Median, mm	0.027	0.027	0.027
Mean, phi	4.69	5.39	5.33
Mean, in.	0.0015	0.0009	0.0010
Mean, mm	0.039	0.024	0.025
Sorting	2.693	2.166	2.212
Skewness	0.928	0.087	0.086
Kurtosis	0.189	0.721	1.069
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

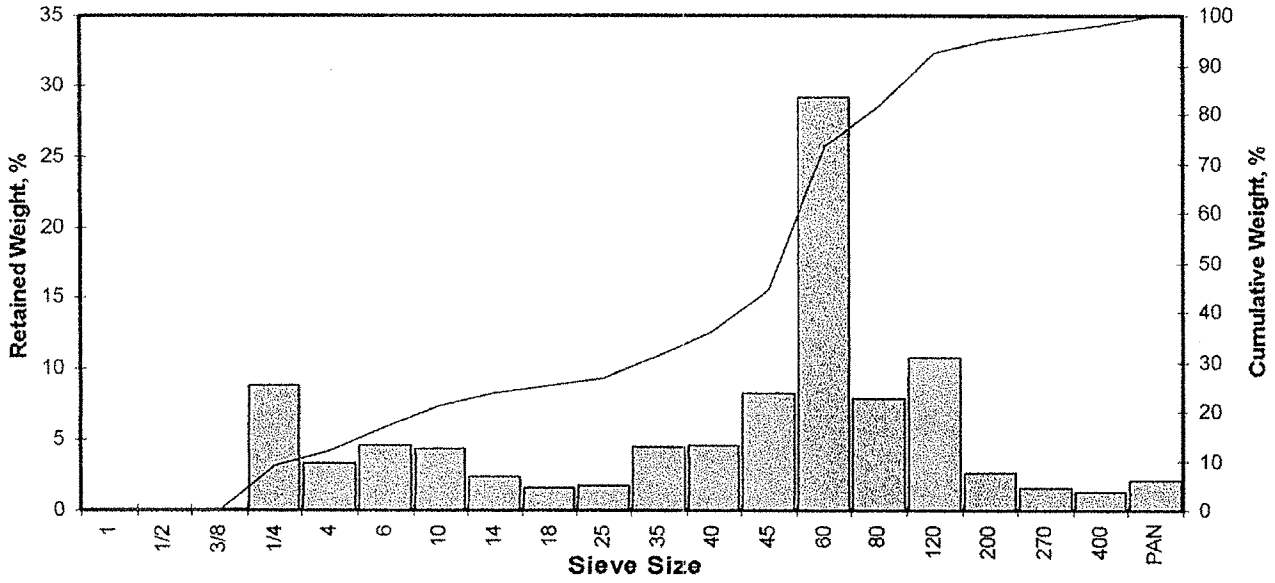
Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.23
Fine Sand	200	20.71
Silt	>0.005 mm	61.98
Clay	<0.005 mm	15.08
	Total	100

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D422M

Client:	STL, Inc.	**PTS File No:**	35271
Project:	N/A	**Sample ID:**	MWG001_SS122_0001
Project No:	E5D250161	**Depth, ft:**	N/A

Gravel	Sand			Silt/Clay
	coarse	medium	fine	



Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	5.09	8.91	8.91
0.1873	4.757	-2.25	4	1.89	3.31	12.22
0.1324	3.364	-1.75	6	2.67	4.68	16.90
0.0787	2.000	-1.00	10	2.49	4.36	21.26
0.0557	1.414	-0.50	14	1.37	2.40	23.66
0.0394	1.000	0.00	18	0.92	1.61	25.27
0.0278	0.707	0.50	25	0.97	1.70	26.97
0.0197	0.500	1.00	35	2.59	4.54	31.50
0.0166	0.420	1.25	40	2.62	4.59	36.09
0.0139	0.354	1.50	45	4.77	8.35	44.44
0.0098	0.250	2.00	60	16.64	29.14	73.58
0.0070	0.177	2.50	80	4.53	7.93	81.51
0.0049	0.125	3.00	120	6.19	10.84	92.35
0.0029	0.074	3.75	200	1.51	2.64	94.99
0.0021	0.053	4.25	270	0.90	1.58	96.57
0.0015	0.037	4.75	400	0.78	1.37	97.93
			PAN	1.18	2.07	100.00
TOTALS				57.11	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-2.92	0.2984	7.579
10	-2.53	0.2274	5.776
16	-1.85	0.1415	3.595
25	-0.08	0.0417	1.059
40	1.37	0.0153	0.388
50	1.60	0.0130	0.331
60	1.77	0.0116	0.294
75	2.09	0.0092	0.235
84	2.61	0.0064	0.163
90	2.89	0.0053	0.135
95	3.75	0.0029	0.074

Measure	Trask	Inman	Folk-Ward
Median, phi	1.60	1.60	1.60
Median, in.	0.0130	0.0130	0.0130
Median, mm	0.331	0.331	0.331
Mean, phi	0.63	0.38	0.79
Mean, in.	0.0255	0.0302	0.0228
Mean, mm	0.647	0.766	0.579
Sorting	2.123	2.230	2.127
Skewness	1.507	-0.543	-0.448
Kurtosis	0.073	0.496	1.259
Grain Size Description (ASTM-USCS Scale)		Medium sand (based on Mean from Trask)	

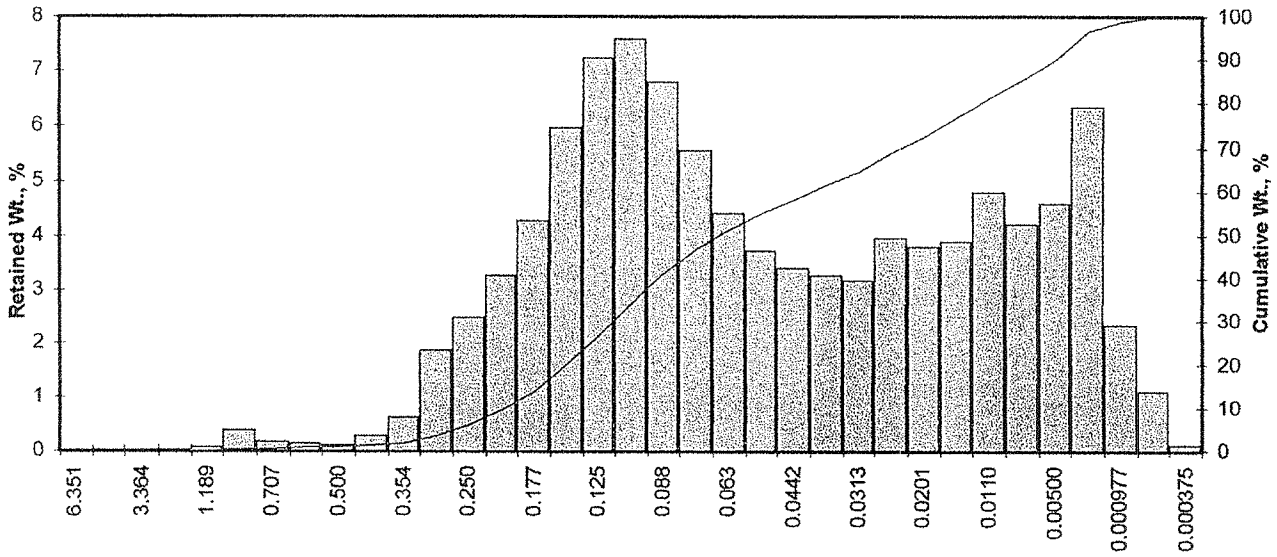
Description	Retained on Sieve #	Weight Percent
Gravel	4	12.22
Coarse Sand	10	9.04
Medium Sand	40	14.83
Fine Sand	200	58.90
Silt/Clay	<200	5.01
	Total	100

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35271
Project:	N/A	**Sample ID:**	MWG001_SS145_0001
Project No:	E5D250161	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.07	0.07	0.07
0.0331	0.841	0.25	20	0.39	0.39	0.46
0.0278	0.707	0.50	25	0.18	0.18	0.64
0.0234	0.595	0.75	30	0.14	0.14	0.78
0.0197	0.500	1.00	35	0.12	0.12	0.90
0.0166	0.420	1.25	40	0.27	0.27	1.17
0.0139	0.354	1.50	45	0.61	0.61	1.78
0.0117	0.297	1.75	50	1.85	1.85	3.63
0.0098	0.250	2.00	60	2.49	2.49	6.12
0.0083	0.210	2.25	70	3.26	3.26	9.38
0.0070	0.177	2.50	80	4.29	4.29	13.67
0.0059	0.149	2.75	100	5.96	5.96	19.62
0.0049	0.125	3.00	120	7.26	7.26	26.88
0.0041	0.105	3.25	140	7.58	7.58	34.46
0.0035	0.088	3.50	170	6.80	6.80	41.26
0.0029	0.074	3.75	200	5.56	5.56	46.82
0.0025	0.063	4.00	230	4.43	4.43	51.25
0.0021	0.053	4.25	270	3.72	3.72	54.96
0.00174	0.0442	4.50	325	3.41	3.41	58.37
0.00146	0.0372	4.75	400	3.28	3.28	61.65
0.00123	0.0313	5.00	450	3.19	3.19	64.84
0.000986	0.0250	5.32	500	3.97	3.97	68.81
0.000790	0.0201	5.64	635	3.81	3.81	72.62
0.000615	0.0156	6.00		3.90	3.90	76.52
0.000435	0.0110	6.50		4.80	4.80	81.32
0.000308	0.00781	7.00		4.22	4.22	85.53
0.000197	0.00500	7.65		4.60	4.60	90.13
0.000077	0.00195	9.00		6.33	6.33	96.46
0.000038	0.000977	10.00		2.34	2.34	98.80
0.000019	0.000488	11.00		1.09	1.09	99.89
0.000015	0.000375	11.38		0.11	0.11	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	1.89	0.0106	0.270
10	2.29	0.0081	0.205
16	2.60	0.0065	0.165
25	2.94	0.0051	0.131
40	3.45	0.0036	0.091
50	3.93	0.0026	0.066
60	4.62	0.0016	0.041
75	5.86	0.0007	0.017
84	6.82	0.0003	0.009
90	7.63	0.0002	0.005
95	8.69	0.0001	0.002

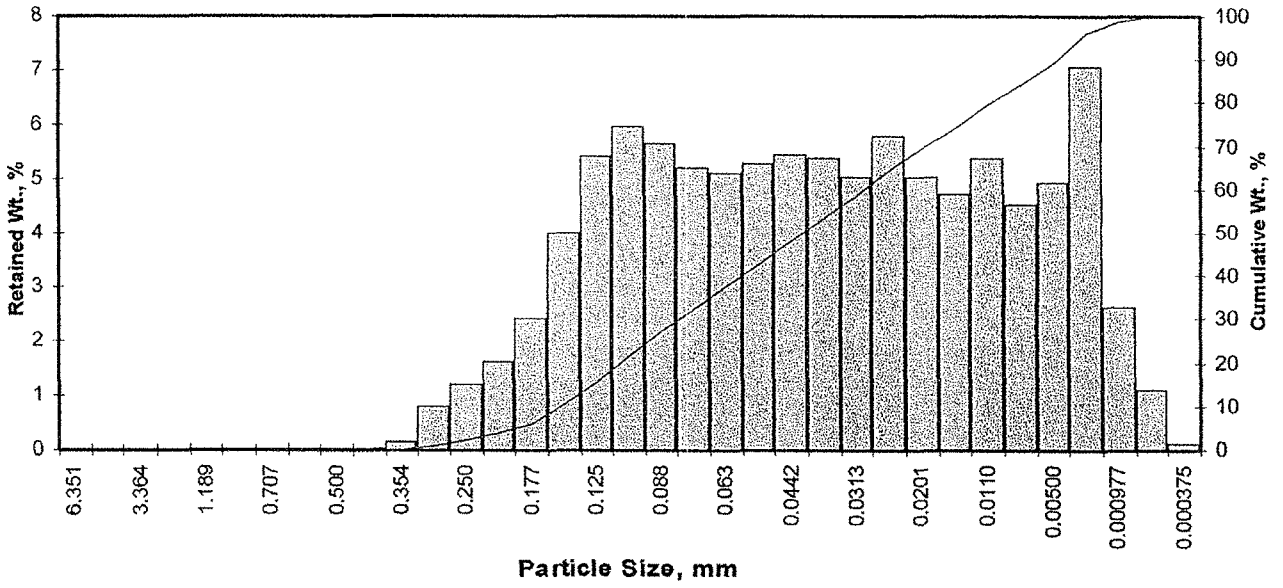
Measure	Trask	Inman	Folk-Ward
Median, phi	3.93	3.93	3.93
Median, in.	0.0026	0.0026	0.0026
Median, mm	0.066	0.066	0.066
Mean, phi	3.76	4.71	4.45
Mean, in.	0.0029	0.0015	0.0018
Mean, mm	0.074	0.038	0.046
Sorting	2.756	2.110	2.085
Skewness	0.723	0.369	0.384
Kurtosis	0.284	0.611	0.953
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.17
Fine Sand	200	45.65
Silt	>0.005 mm	43.32
Clay	<0.005 mm	9.87
	Total	**100**

PTS Laboratories, Inc. **Particle Size Analysis - ASTM D4464M**

Client:	STL, Inc.	**PTS File No:**	35271
Project:	N/A	**Sample ID:**	MWG001_SS133_0001
Project No:	E5D250161	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.01	0.01	0.01
0.0139	0.354	1.50	45	0.15	0.15	0.16
0.0117	0.297	1.75	50	0.79	0.79	0.95
0.0098	0.250	2.00	60	1.19	1.19	2.14
0.0083	0.210	2.25	70	1.62	1.62	3.76
0.0070	0.177	2.50	80	2.43	2.43	6.19
0.0059	0.149	2.75	100	4.01	4.01	10.20
0.0049	0.125	3.00	120	5.42	5.42	15.62
0.0041	0.105	3.25	140	5.96	5.96	21.58
0.0035	0.088	3.50	170	5.66	5.66	27.24
0.0029	0.074	3.75	200	5.22	5.22	32.46
0.0025	0.063	4.00	230	5.09	5.09	37.55
0.0021	0.053	4.25	270	5.26	5.26	42.81
0.00174	0.0442	4.50	325	5.45	5.45	48.26
0.00146	0.0372	4.75	400	5.37	5.37	53.63
0.00123	0.0313	5.00	450	5.04	5.04	58.66
0.000986	0.0250	5.32	500	5.81	5.81	64.47
0.000790	0.0201	5.64	635	5.04	5.04	69.51
0.000615	0.0156	6.00		4.74	4.74	74.25
0.000435	0.0110	6.50		5.39	5.39	79.64
0.000308	0.00781	7.00		4.52	4.52	84.16
0.000197	0.00500	7.65		4.92	4.92	89.08
0.000077	0.00195	9.00		7.08	7.08	96.16
0.000038	0.000977	10.00		2.61	2.61	98.77
0.000019	0.000488	11.00		1.12	1.12	99.89
0.000015	0.000375	11.38		0.11	0.11	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	2.38	0.0076	0.192
10	2.74	0.0059	0.150
16	3.02	0.0049	0.124
25	3.40	0.0037	0.095
40	4.12	0.0023	0.058
50	4.58	0.0016	0.042
60	5.07	0.0012	0.030
75	6.07	0.0006	0.015
84	6.98	0.0003	0.008
90	7.82	0.0002	0.004
95	8.78	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.58	4.58	4.58
Median, in.	0.0016	0.0016	0.0016
Median, mm	0.042	0.042	0.042
Mean, phi	4.19	5.00	4.86
Mean, in.	0.0022	0.0012	0.0014
Mean, mm	0.055	0.031	0.034
Sorting	2.521	1.983	1.961
Skewness	0.899	0.211	0.261
Kurtosis	0.274	0.614	0.983
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

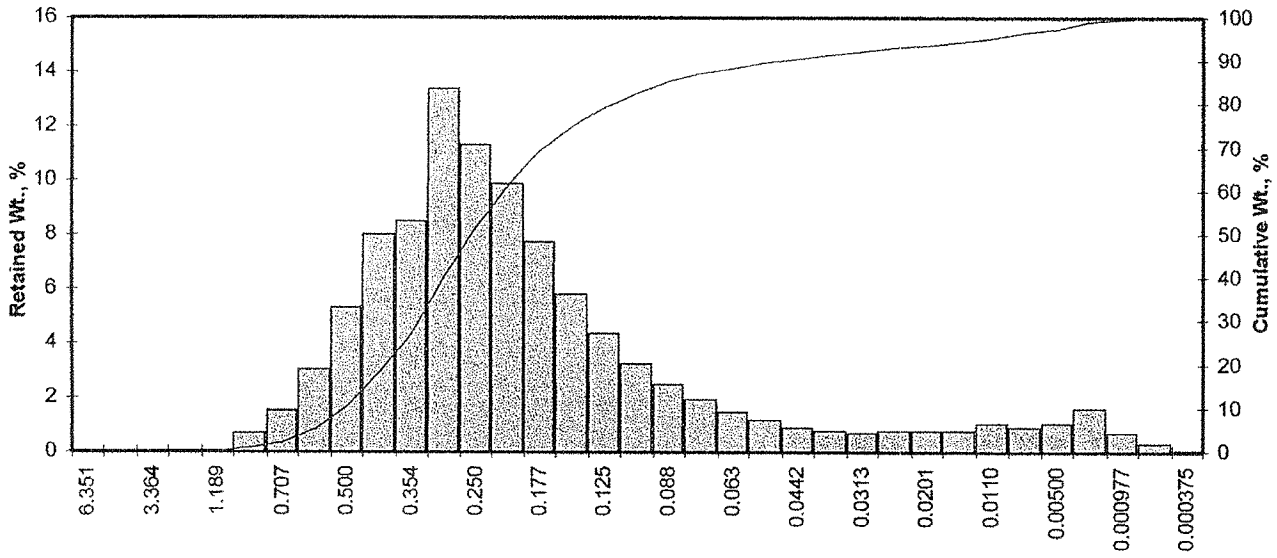
Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.01
Fine Sand	200	32.45
Silt	>0.005 mm	56.62
Clay	<0.005 mm	10.92
	Total	**100**

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35271
Project:	N/A	**Sample ID:**	MWG001_SS165_0001
Project No:	E5D250161	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.01	0.01	0.01
0.0331	0.841	0.25	20	0.71	0.71	0.72
0.0278	0.707	0.50	25	1.49	1.49	2.21
0.0234	0.595	0.75	30	3.00	3.00	5.21
0.0197	0.500	1.00	35	5.34	5.34	10.55
0.0166	0.420	1.25	40	8.00	8.01	18.56
0.0139	0.354	1.50	45	8.49	8.50	27.05
0.0117	0.297	1.75	50	13.40	13.41	40.46
0.0098	0.250	2.00	60	11.30	11.31	51.77
0.0083	0.210	2.25	70	9.87	9.88	61.65
0.0070	0.177	2.50	80	7.72	7.73	69.37
0.0059	0.149	2.75	100	5.80	5.80	75.17
0.0049	0.125	3.00	120	4.31	4.31	79.49
0.0041	0.105	3.25	140	3.25	3.25	82.74
0.0035	0.088	3.50	170	2.47	2.47	85.21
0.0029	0.074	3.75	200	1.90	1.90	87.11
0.0025	0.063	4.00	230	1.46	1.46	88.57
0.0021	0.053	4.25	270	1.15	1.15	89.72
0.00174	0.0442	4.50	325	0.93	0.93	90.65
0.00146	0.0372	4.75	400	0.78	0.78	91.44
0.00123	0.0313	5.00	450	0.69	0.69	92.13
0.000986	0.0250	5.32	500	0.79	0.79	92.92
0.000790	0.0201	5.64	635	0.74	0.74	93.66
0.000615	0.0156	6.00		0.77	0.77	94.43
0.000435	0.0110	6.50		1.00	1.00	95.43
0.000308	0.00781	7.00		0.91	0.91	96.34
0.000197	0.00500	7.65		1.03	1.03	97.37
0.000077	0.00195	9.00		1.60	1.60	98.97
0.000038	0.000977	10.00		0.69	0.69	99.66
0.000019	0.000488	11.00		0.31	0.31	99.97
0.000015	0.000375	11.38		0.03	0.03	100.00
TOTALS				**99.90**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	0.73	0.0237	0.602
10	0.97	0.0200	0.509
16	1.17	0.0175	0.444
25	1.44	0.0145	0.369
40	1.74	0.0118	0.299
50	1.96	0.0101	0.257
60	2.21	0.0085	0.216
75	2.74	0.0059	0.149
84	3.38	0.0038	0.096
90	4.32	0.0020	0.050
95	6.29	0.0005	0.013

Measure	Trask	Inman	Folk-Ward
Median, phi	1.96	1.96	1.96
Median, in.	0.0101	0.0101	0.0101
Median, mm	0.257	0.257	0.257
Mean, phi	1.95	2.27	2.17
Mean, in.	0.0102	0.0081	0.0088
Mean, mm	0.259	0.207	0.222
Sorting	1.571	1.104	1.393
Skewness	0.914	0.284	0.421
Kurtosis	0.239	1.516	1.747
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	18.56
Fine Sand	200	68.55
Silt	>0.005 mm	10.26
Clay	<0.005 mm	2.63
	Total	**100**

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hain of ustody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc

-4124 (0901)

ent: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 4/22/05	Chain of Custody Number: 142428
dress: 9040 FRIARS RD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619.280.9210	Lab Number:	Page 1 of 1
y: SAN DIEGO — State: CA — Zip Code: 92108	Site Contact: T. HAMMOND — Lab Contact: D. SUZUKI		
oject Name and Location (State): BOEING CC	Carrier/Waybill Number:		
ntract/Purchase Order/Quote No.: 28882-110			

Matrix / Containers & Preservatives / Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (ontainers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	6" SLEEVE	MOISTURE CONTENT (ASTM D 2216)	BULK DENSITY (ASTM D 2937)	VERTICAL HYDRAULIC COND. (API RP40 ASTM D5084)	TOTAL ORG. CARBON (WALKLEY-BLACK)	POROSITY (API RP40)	GRAINSIZE DISTR (ASTM D 422)	Special Instructions/ Conditions of Receipt
WG001_SS101_0001	4/19/05	17:30				X							2	X	X	X	X	X	X	
WG001_SS122_0001	4/20/05	11:50				X	1								X				X	
WG001_SS145_0001	4/20/05	12:05				X	1								X				X	
WG001_SS133_0001	4/20/05	12:45				X	1						1	X	X	X	X	X	X	
WG001_SS165_0001	4/21/05	10:30				X	1								X				X	

ESD250161

ssible 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)

rn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other NORMAL

QC Requirements (Specify)

Relinquished By	Date	Time	Received By	Date	Time
[signature]	4/22/05	11:55	1. Vincent Padilla	4/22/05	1155
Vince Padilla	4/22/05	1805	2. Matt Crum	4-22-05	18:05
			3.		

omments: Temp 5.5 - 0.1 = 5.4

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

BOE-C6-0104748

F6E361272

[redacted]

hain of ustody Record

PTS 35271

SEVERN TRENT STL
Severn Trent Laboratories, Inc.

4124 (0901)

ent: TL Los Angeles	Project Manager: Diane Suzuki	Date: 4-25-05	Chain of Custody Number: 219424
dress: 721 S Grand Ave	Telephone Number (Area Code)/Fax Number: 714-258-8610 0921	Lab Number:	Page 1 of 1
ounta Area — State: CA — Zip Code: 92705	Site Contact:	Lab Contact:	
ject Name and Location (State): ESD250P61	Carrier/Waybill Number:		
ntract/Purchase Order/Quote No.:			

Analysis (Attach list if more space is needed): Geotechnical Tests - See attached Sheet

Sample I.D. No. and Description (ntainers 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	Geotechnical Tests	See attached Sheet	Special Instructions/ Conditions of Receipt
WG001-SS101-0001	4-19-05	1730		~~See~~		X	X						X		
WG001-SS122-0001	4-20-05	1150													
WG001-SS145-0001		1205													
WG001-SS133-0001		1245													
WG001-SS165-0001	4-21-05	1030													

sible 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)

n Around Time Required: 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other SAD

QC Requirements (Specify):

	Date	Time		Date	Time
Relinquished By: [signature]	42605	1530	1. Received By: [signature] PTS	4/27/05	10:30
Relinquished By:			2. Received By:		
Relinquished By:			3. Received By:		

nments

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

BOE-C6-0104749

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

May 24, 2005

STL LOT NUMBER: E5D290237
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

Scott Zachary
Haley & Aldrich Inc
9040 Friars Road
Suite 220
San Diego, CA 92108

Dear Mr. Zachary,

This report contains the analytical results for the 11 samples received under chain of custody by STL Los Angeles on April 29, 2005. These samples are associated with your Boeing former C6 facility Torrance, California project.

All applicable quality control procedures met method-specified acceptance criteria. 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.

The geotechnical tests were performed by PTS Laboratories. Please see attached report for any related anomalies.

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 000039 total pages in this report.

BOE-C6-0104750

E5D290237

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc

L-4124 (0901)

Client: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 4/28/05	Chain of Custody Number: 142440
Address: 9040 FRIARS RD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619. 280. 9210	Lab Number: E5D290237	Page 1 of 1
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact: T. HAMMOND; Lab Contact: D. SUZUKI		
Project Name and Location (State): C6 LOS ANGELES CA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 28882-110			

Analysis (Attach list if more space is needed): Moisture Content ASTM D 2216; Bulk Density ASTM D 2937; Vertical Hydraulic Conductivity ASTM D5084; API RP40 / ASTM; Total Organic Carbon Walkley-Black; Porosity API RP40; Grain Size Distribution ASTM D422; 8260B

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	2" Diameter x 6" Long Brass Sleeve	Moisture Content ASTM D 2216	Bulk Density ASTM D 2937	Vertical Hydraulic Conductivity ASTM D5084	API RP40 / ASTM	Total Organic Carbon Walkley-Black	Porosity API RP40	Grain Size Distribution ASTM D422		8260B				
MWG002_SS074_0001	4/26/05	8:05				X	1								X					X						
MWG002_SS079_0001	4/26/05	8:10				X	1						1	X	X	X	X	X	X	X						
MWG002_SS107_0001	4/26/05	8:20				X	1								X					X						
MWG002_SS124_0001	4/26/05	10:00				X	1								X					X						
MWG002_SS135_0001	4/26/05	12:05				X	1						1/1	X	X	X	X	X	X	X						
MWG002_SS176_0001	4/27/05	11:30				X	1						6" SLEEVES 3" SLEEVES													
SKIPPED LINE (TSH)															X					X						
MWC009_SS080_0001	4/28/05	8:00				X	1								X					X						
MWC009_SS098_0001	4/28/05	8:15				X	1								X			X		X						
MWC009_SS111_0001	4/28/05	8:30				X	1								X					X						
C6_SP088_HA_SS	4/28/05	12:30				X	1	GLASS JAR 8 oz.														X				
C6_SP087_HA_SS	4/28/05	12:40				X	1	GLASS JAR 8 oz														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 NORMAL

QC Requirements (Specify):

Relinquished By	Date 4/28/05	Time 15:30	1. Received By	Date 4/28/05	Time 1530
Relinquished By	Date 4/28/05	Time 1635	2. Received By	Date 4-28-05	Time 16:35
Relinquished By	Date	Time	3. Received By	Date	Time

Comments: Temp - 3.8 - 0.1 = 3.7

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

2

BOE-C6-0104751

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 4-29-05

LIMS Lot #: ESD290237 Quote #: 42295

Client Name: Haley & Aldrich Project: BRC C6

Received by: MG Date/Time Received: 4-28-05 1635

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

****

	Initial / Date
Custody Seal Status Cooler: ☐Intact ☐Broken ☒None	DS 4-29-05
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 0.1 °C IR passed daily verification ☒ Yes ☐No	
Temperature - **BLANK** 3.8 °C +0.1 CF = 3.7 °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: YS 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…

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

PTS

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

Headspace Anomaly ☐N/A MG 4-29-05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # ESD290237 PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1	2	3	4	5	6	7	8	9	10	11			
VOAH/ *														
Bag	1	1	1	1	1	1	1	1	1				1	
Sleeve		1			2									
Sea Gj										1	1			

* 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 DS 42905

- **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: Swart 42905 **PM Review/Date:** MMC 4/29/05

SEVERN TRENT STL

Analytical Report

BOE-C6-0104754

EXECUTIVE SUMMARY - Detection Highlights

E5D290237

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
C6_SP088_HA_SS 04/28/05 12:30 010				
Tetrahydrofuran	3.3 J,B	20	ug/kg	SW846 8260B
C6_SP087_HA_SS 04/28/05 12:40 011				
1,1-Dichloroethene	16	5.0	ug/kg	SW846 8260B
Chloroform	2.5 J	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	3.5 J,B	20	ug/kg	SW846 8260B
Trichloroethene	13	5.0	ug/kg	SW846 8260B

METHODS SUMMARY

E5D290237

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.

SAMPLE SUMMARY

E5D290237

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G9HE5	010	C6_SP088_HA_SS	04/28/05	12:30
G9HE9	011	C6_SP087_HA_SS	04/28/05	12:40

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.

Haley & Aldrich Inc.

Client Sample ID: C6_SP088_HA_SS

GC/MS Volatiles

Lot-Sample #...: E5D290237-010 **Work Order #...:** G9HE51AA **Matrix.....:** SO
Date Sampled...: 04/28/05 12:30 **Date Received..:** 04/28/05 16:35 **MS Run #.....:** 5125164
Prep Date.....: 05/04/05 **Analysis Date..:** 05/04/05
Prep Batch #...: 5125267 **Analysis Time..:** 12:20
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSP
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	3.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	40
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	**3.3 J,B**	**20**	**ug/kg**	**2.0**
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

(Continued on next page)

Haley & Aldrich Inc.

Client Sample ID: C6_SP088_HA_SS

GC/MS Volatiles

Lot-Sample #...: E5D290237-010 **Work Order #...:** G9HE51AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	87	(60 - 130)
1,2-Dichloroethane-d4	76	(60 - 140)
Toluene-d8	84	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Haley & Aldrich Inc.

Client Sample ID: C6_SP087_HA_SS

GC/MS Volatiles

Lot-Sample #...: E5D290237-011 **Work Order #...:** G9HE91AA **Matrix.....:** SO
Date Sampled...: 04/28/05 12:40 **Date Received..:** 04/28/05 16:35 **MS Run #.....:** 5125164
Prep Date.....: 05/04/05 **Analysis Date..:** 05/04/05
Prep Batch #...: 5125267 **Analysis Time..:** 12:43
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSP
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	3.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	**16**	**5.0**	**ug/kg**	**2.0**
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	40
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	**2.5 J**	**5.0**	**ug/kg**	**1.0**
Tetrahydrofuran	**3.5 J,B**	**20**	**ug/kg**	**2.0**
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	**13**	**5.0**	**ug/kg**	**2.0**
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

(Continued on next page)

Haley & Aldrich Inc.

Client Sample ID: C6_SP087_HA_SS

GC/MS Volatiles

Lot-Sample #...: E5D290237-011 **Work Order #...:** G9HE91AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	86	(60 - 130)
1,2-Dichloroethane-d4	77	(60 - 140)
Toluene-d8	85	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E5D290237

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
010	SO	SW846 8260B		5125267	5125164
011	SO	SW846 8260B		5125267	5125164

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5D290237 **Work Order #...:** G9WN21AA **Matrix.....:** SOLID
MB Lot-Sample #: E5E050000-267

Prep Date.....: 05/04/05 **Analysis Time..:** 11:24
Analysis Date..: 05/04/05 **Prep Batch #...:** 5125267 **Instrument ID..:** MSP
Dilution Factor: 1

Analyst ID.....: 004648

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	**4.3 J**	**20**	**ug/kg**	**SW846 8260B**
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5D290237 **Work Order #...:** G9WN21AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(60 - 130)
1,2-Dichloroethane-d4	80	(60 - 140)
Toluene-d8	86	(70 - 130)

NOTE(S):

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

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5D290237 **Work Order #...:** G9WN21AC **Matrix.....:** SOLID
LCS Lot-Sample#: E5E050000-267
Prep Date.....: 05/04/05 **Analysis Date..:** 05/04/05
Prep Batch #...: 5125267 **Analysis Time..:** 11:02
Dilution Factor: 1 **Instrument ID..:** MSP
Analyst ID.....: 004648

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	17 a	(40 - 160)	SW846 8260B
Chloromethane	51	(50 - 150)	SW846 8260B
Vinyl chloride	46 a	(60 - 140)	SW846 8260B
Bromomethane	87	(50 - 150)	SW846 8260B
1,2-Dibromoethane	90	(70 - 130)	SW846 8260B
Chloroethane	60	(40 - 150)	SW846 8260B
Trichlorofluoromethane	42 a	(70 - 130)	SW846 8260B
Dibromomethane	89	(70 - 130)	SW846 8260B
1,1-Dichloroethene	**70**	**(65 - 150)**	**SW846 8260B**
Acetone	82	(50 - 150)	SW846 8260B
Carbon disulfide	76	(60 - 140)	SW846 8260B
1,3-Dichloropropane	95	(70 - 130)	SW846 8260B
Methylene chloride	83	(70 - 130)	SW846 8260B
trans-1,2-Dichloroethene	84	(70 - 130)	SW846 8260B
Methyl tert-butyl ether	85	(70 - 130)	SW846 8260B
1,1-Dichloroethane	83	(70 - 130)	SW846 8260B
Naphthalene	89	(60 - 140)	SW846 8260B
2,2-Dichloropropane	84	(70 - 130)	SW846 8260B
cis-1,2-Dichloroethene	92	(70 - 130)	SW846 8260B
2-Butanone	96	(60 - 140)	SW846 8260B
Bromochloromethane	82	(70 - 130)	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	49 a	(70 - 130)	SW846 8260B
Chloroform	88	(70 - 130)	SW846 8260B
m-Xylene & p-Xylene	96	(70 - 130)	SW846 8260B
o-Xylene	96	(70 - 130)	SW846 8260B
1,1,1-Trichloroethane	83	(70 - 130)	SW846 8260B
1,1-Dichloropropene	86	(70 - 130)	SW846 8260B
Carbon tetrachloride	81	(70 - 130)	SW846 8260B
Benzene	**91**	**(70 - 130)**	**SW846 8260B**
1,2-Dichloroethane	80	(70 - 130)	SW846 8260B
Trichloroethene	**90**	**(70 - 135)**	**SW846 8260B**
1,2-Dichloropropane	89	(70 - 130)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5D290237 **Work Order #...:** G9WN21AC **Matrix.....:** SOLID
LCS Lot-Sample#: E5E050000-267

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Bromodichloromethane	94	(70 - 130)	SW846 8260B
cis-1,3-Dichloropropene	97	(70 - 130)	SW846 8260B
4-Methyl-2-pentanone	94	(60 - 140)	SW846 8260B
Toluene	**94**	**(70 - 130)**	**SW846 8260B**
trans-1,3-Dichloropropene	89	(70 - 130)	SW846 8260B
1,1,2-Trichloroethane	94	(70 - 130)	SW846 8260B
Tetrachloroethene	86	(70 - 130)	SW846 8260B
2-Hexanone	96	(60 - 140)	SW846 8260B
Dibromochloromethane	93	(70 - 130)	SW846 8260B
Chlorobenzene	**94**	**(70 - 130)**	**SW846 8260B**
Ethylbenzene	97	(70 - 130)	SW846 8260B
Styrene	97	(70 - 130)	SW846 8260B
Bromoform	89	(70 - 130)	SW846 8260B
Isopropylbenzene	85	(70 - 130)	SW846 8260B
p-Isopropyltoluene	92	(70 - 130)	SW846 8260B
Bromobenzene	95	(70 - 140)	SW846 8260B
1,1,1,2-Tetrachloroethane	91	(70 - 130)	SW846 8260B
1,1,2,2-Tetrachloroethane	96	(70 - 130)	SW846 8260B
1,2,3-Trichloropropane	92	(70 - 130)	SW846 8260B
n-Propylbenzene	101	(70 - 130)	SW846 8260B
2-Chlorotoluene	99	(70 - 130)	SW846 8260B
4-Chlorotoluene	98	(70 - 130)	SW846 8260B
1,3,5-Trimethylbenzene	99	(70 - 130)	SW846 8260B
tert-Butylbenzene	99	(70 - 130)	SW846 8260B
1,2,4-Trimethylbenzene	99	(70 - 130)	SW846 8260B
sec-Butylbenzene	103	(70 - 130)	SW846 8260B
1,3-Dichlorobenzene	93	(70 - 130)	SW846 8260B
1,4-Dichlorobenzene	93	(70 - 130)	SW846 8260B
1,2-Dichlorobenzene	91	(70 - 130)	SW846 8260B
n-Butylbenzene	98	(70 - 130)	SW846 8260B
1,2-Dibromo-3-chloro-propane	85	(60 - 140)	SW846 8260B
1,2,4-Trichloro-benzene	88	(70 - 130)	SW846 8260B
Hexachlorobutadiene	84	(70 - 130)	SW846 8260B
1,2,3-Trichlorobenzene	84	(70 - 130)	SW846 8260B
t-Butanol	87	(40 - 150)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5D290237 **Work Order #...:** G9WN21AC **Matrix.....:** SOLID
LCS Lot-Sample#: E5E050000-267

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isopropyl ether	83	(70 - 130)	SW846 8260B
Tert-amyl methyl ether	94	(70 - 130)	SW846 8260B
Tert-butyl ethyl ether	85	(70 - 130)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	86	(60 - 130)
1,2-Dichloroethane-d4	75	(60 - 140)
Toluene-d8	86	(60 - 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.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5D290237 **Work Order #...:** G9WN21AC **Matrix.....:** SOLID
LCS Lot-Sample#: E5E050000-267
Prep Date.....: 05/04/05 **Analysis Date..:** 05/04/05
Prep Batch #...: 5125267 **Analysis Time..:** 11:02
Dilution Factor: 1 **Instrument ID..:** MSP
Analyst ID.....: 004648

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Dichlorodifluoromethane	50.0	8.68 a	ug/kg	17	SW846 8260B
Chloromethane	50.0	25.7	ug/kg	51	SW846 8260B
Vinyl chloride	50.0	23.1 a	ug/kg	46	SW846 8260B
Bromomethane	50.0	43.6	ug/kg	87	SW846 8260B
1,2-Dibromoethane	50.0	45.0	ug/kg	90	SW846 8260B
Chloroethane	50.0	30.0	ug/kg	60	SW846 8260B
Trichlorofluoromethane	50.0	20.9 a	ug/kg	42	SW846 8260B
Dibromomethane	50.0	44.5	ug/kg	89	SW846 8260B
1,1-Dichloroethene	**50.0**	**35.0**	**ug/kg**	**70**	**SW846 8260B**
Acetone	250	204	ug/kg	82	SW846 8260B
Carbon disulfide	250	190	ug/kg	76	SW846 8260B
1,3-Dichloropropane	50.0	47.3	ug/kg	95	SW846 8260B
Methylene chloride	50.0	41.6	ug/kg	83	SW846 8260B
trans-1,2-Dichloroethene	50.0	42.0	ug/kg	84	SW846 8260B
Methyl tert-butyl ether	50.0	42.4	ug/kg	85	SW846 8260B
1,1-Dichloroethane	50.0	41.5	ug/kg	83	SW846 8260B
Naphthalene	50.0	44.4	ug/kg	89	SW846 8260B
2,2-Dichloropropane	50.0	42.1	ug/kg	84	SW846 8260B
cis-1,2-Dichloroethene	50.0	46.0	ug/kg	92	SW846 8260B
2-Butanone	250	241	ug/kg	96	SW846 8260B
Bromochloromethane	50.0	40.8	ug/kg	82	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	50.0	24.4 a	ug/kg	49	SW846 8260B
Chloroform	50.0	44.0	ug/kg	88	SW846 8260B
m-Xylene & p-Xylene	100	95.8	ug/kg	96	SW846 8260B
o-Xylene	50.0	47.8	ug/kg	96	SW846 8260B
1,1,1-Trichloroethane	50.0	41.3	ug/kg	83	SW846 8260B
1,1-Dichloropropene	50.0	43.0	ug/kg	86	SW846 8260B
Carbon tetrachloride	50.0	40.4	ug/kg	81	SW846 8260B
Benzene	**50.0**	**45.5**	**ug/kg**	**91**	**SW846 8260B**
1,2-Dichloroethane	50.0	40.2	ug/kg	80	SW846 8260B
Trichloroethene	**50.0**	**44.9**	**ug/kg**	**90**	**SW846 8260B**
1,2-Dichloropropane	50.0	44.6	ug/kg	89	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5D290237 **Work Order #...:** G9WN21AC **Matrix.....:** SOLID
LCS Lot-Sample#: E5E050000-267

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Bromodichloromethane	50.0	46.9	ug/kg	94	SW846 8260B
cis-1,3-Dichloropropene	50.0	48.3	ug/kg	97	SW846 8260B
4-Methyl-2-pentanone	250	234	ug/kg	94	SW846 8260B
Toluene	**50.0**	**47.2**	**ug/kg**	**94**	**SW846 8260B**
trans-1,3-Dichloropropene	50.0	44.6	ug/kg	89	SW846 8260B
1,1,2-Trichloroethane	50.0	47.0	ug/kg	94	SW846 8260B
Tetrachloroethene	50.0	43.2	ug/kg	86	SW846 8260B
2-Hexanone	250	240	ug/kg	96	SW846 8260B
Dibromochloromethane	50.0	46.4	ug/kg	93	SW846 8260B
Chlorobenzene	**50.0**	**47.1**	**ug/kg**	**94**	**SW846 8260B**
Ethylbenzene	50.0	48.4	ug/kg	97	SW846 8260B
Styrene	50.0	48.3	ug/kg	97	SW846 8260B
Bromoform	50.0	44.5	ug/kg	89	SW846 8260B
Isopropylbenzene	50.0	42.7	ug/kg	85	SW846 8260B
p-Isopropyltoluene	50.0	46.2	ug/kg	92	SW846 8260B
Bromobenzene	50.0	47.3	ug/kg	95	SW846 8260B
1,1,1,2-Tetrachloroethane	50.0	45.7	ug/kg	91	SW846 8260B
1,1,2,2-Tetrachloroethane	50.0	48.0	ug/kg	96	SW846 8260B
1,2,3-Trichloropropane	50.0	46.2	ug/kg	92	SW846 8260B
n-Propylbenzene	50.0	50.7	ug/kg	101	SW846 8260B
2-Chlorotoluene	50.0	49.4	ug/kg	99	SW846 8260B
4-Chlorotoluene	50.0	49.0	ug/kg	98	SW846 8260B
1,3,5-Trimethylbenzene	50.0	49.4	ug/kg	99	SW846 8260B
tert-Butylbenzene	50.0	49.6	ug/kg	99	SW846 8260B
1,2,4-Trimethylbenzene	50.0	49.4	ug/kg	99	SW846 8260B
sec-Butylbenzene	50.0	51.6	ug/kg	103	SW846 8260B
1,3-Dichlorobenzene	50.0	46.3	ug/kg	93	SW846 8260B
1,4-Dichlorobenzene	50.0	46.4	ug/kg	93	SW846 8260B
1,2-Dichlorobenzene	50.0	45.4	ug/kg	91	SW846 8260B
n-Butylbenzene	50.0	48.8	ug/kg	98	SW846 8260B
1,2-Dibromo-3-chloro-propane	50.0	42.5	ug/kg	85	SW846 8260B
1,2,4-Trichloro-benzene	50.0	43.9	ug/kg	88	SW846 8260B
Hexachlorobutadiene	50.0	42.2	ug/kg	84	SW846 8260B
1,2,3-Trichlorobenzene	50.0	41.9	ug/kg	84	SW846 8260B
t-Butanol	250	218	ug/kg	87	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5D290237 **Work Order #...:** G9WN21AC **Matrix.....:** SOLID
LCS Lot-Sample#: E5E050000-267

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Isopropyl ether	50.0	41.3	ug/kg	83	SW846 8260B
Tert-amyl methyl ether	50.0	46.8	ug/kg	94	SW846 8260B
Tert-butyl ethyl ether	50.0	42.5	ug/kg	85	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	86	(60 - 130)
1,2-Dichloroethane-d4	75	(60 - 140)
Toluene-d8	86	(60 - 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 #...:	E5D290237	**Work Order #...:**	G9HE51AC-MS	**Matrix.....:**	SO
MS Lot-Sample #:	E5D290237-010		G9HE51AD-MSD		
Date Sampled...:	04/28/05 12:30	**Date Received..:**	04/28/05 16:35	**MS Run #.....:**	5125164
Prep Date.....:	05/04/05	**Analysis Date..:**	05/04/05		
Prep Batch #...:	5125267	**Analysis Time..:**	14:14		
Dilution Factor:	1	**Analyst ID.....:**	004648	**Instrument ID..:**	MSP

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**74**	**(65 - 150)**			**SW846 8260B**
	77	**(65 - 150)**	**4.4**	**(0-30)**	**SW846 8260B**
Benzene	**92**	**(70 - 130)**			**SW846 8260B**
	95	**(70 - 130)**	**3.7**	**(0-30)**	**SW846 8260B**
Trichloroethene	**91**	**(70 - 135)**			**SW846 8260B**
	94	**(70 - 135)**	**3.4**	**(0-30)**	**SW846 8260B**
Toluene	**95**	**(70 - 130)**			**SW846 8260B**
	97	**(70 - 130)**	**2.6**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**93**	**(70 - 130)**			**SW846 8260B**
	95	**(70 - 130)**	**2.6**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	85	(60 - 130)
	86	(60 - 130)
1,2-Dichloroethane-d4	72	(60 - 140)
	72	(60 - 140)
Toluene-d8	87	(70 - 130)
	87	(70 - 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 #...: E5D290237 **Work Order #...:** G9HE51AC-MS **Matrix.....:** SO
MS Lot-Sample #: E5D290237-010 G9HE51AD-MSD
Date Sampled...: 04/28/05 12:30 **Date Received..:** 04/28/05 16:35 **MS Run #.....:** 5125164
Prep Date.....: 05/04/05 **Analysis Date..:** 05/04/05
Prep Batch #...: 5125267 **Analysis Time..:** 14:14
Dilution Factor: 1 **Analyst ID.....:** 004648 **Instrument ID..:** MSP

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	36.9	ug/kg	74		SW846 8260B
	ND	50.0	38.5	ug/kg	77	4.4	SW846 8260B
Benzene	ND	50.0	45.9	ug/kg	92		SW846 8260B
	ND	50.0	47.6	ug/kg	95	3.7	SW846 8260B
Trichloroethene	ND	50.0	45.7	ug/kg	91		SW846 8260B
	ND	50.0	47.2	ug/kg	94	3.4	SW846 8260B
Toluene	ND	50.0	47.4	ug/kg	95		SW846 8260B
	ND	50.0	48.7	ug/kg	97	2.6	SW846 8260B
Chlorobenzene	ND	50.0	46.4	ug/kg	93		SW846 8260B
	ND	50.0	47.6	ug/kg	95	2.6	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	85	(60 - 130)
	86	(60 - 130)
1,2-Dichloroethane-d4	72	(60 - 140)
	72	(60 - 140)
Toluene-d8	87	(70 - 130)
	87	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

SEVERN TRENT STL

Subcontract Reports

BOE-C6-0104774

PTS Laboratories
ENVIRONMENTAL SERVICES

May 18, 2005

Ms. Diane Suzuki
STL
1721 S. Grand Ave.
Santa Ana, CA 92705

Re: E5D290237
PTS File: 35285

Dear Ms. Suzuki:

Enclosed are final data for samples submitted from your Project # E5D290237. Electronic versions of the data have been previously sent to your attention. All analyses were performed by applicable ASTM, EPA or API methodology. The samples are currently in storage and will be held for thirty days before disposal.

We appreciate the opportunity to be of service and trust these data will prove beneficial in the development of this project. Please call me at (562) 907-3607 with any questions or if you require additional information.

Sincerely,
PTS Laboratories, Inc.

Larry Kunkel
District Manager

LAK:vk

Encl.

8100 Secura Way – Santa Fe Springs, CA 90670
Phone 562.907.3607 Fax 562.907.3610
www.ptsgeolabs.com

PHYSICAL PROPERTIES DATA

PROJECT NAME: N/A
PROJECT NO: E5D290237

		METHODOLOGY:	ASTM D2216	API RP40		ASTM D5084	
						25.0 PSI CONFINING STRESS	
SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENT. (1)	MOISTURE CONTENT (% wt)	BULK DENSITY (g/cc)	TOTAL POROSITY, % Vb	NATIVE STATE EFFECTIVE PERMEABILITY TO WATER (2,3) (millidarcy)	NATIVE STATE EFFECTIVE HYDRAULIC CONDUCTIVITY (2,3) (cm/s)
MWG002_SS074_0001	N/A	V	--	1.47	--	--	--
MWG002_SS079_0001	N/A	V	30.4	1.60	49.2	1.48	1.43E-06
MWG002_SS107_0001	N/A	V	--	1.58	--	--	--
MWG002_SS124_0001	N/A	V	--	1.70	--	--	--
MWG002_SS135_0001	N/A	V	31.3	1.31	44.4	2.43	2.38E-06
MWG002_SS176_0001	N/A	V	19.8	--	--	--	--
MWC009_SS080_0001	N/A	V	26.3	--	--	--	--
MWC009_SS098_0001	N/A	V	38.1	--	--	--	--
MWC009_SS111_0001	N/A	V	23.5	--	--	--	--

(1) Sample Orientation: H = horizontal; V = vertical (2) Native State = As received with pore fluids in place (3) Permeability to water and conductivity measured at saturated conditions Vb = Bulk Volume, cc

ORGANIC CARBON DATA

(METHODOLOGY: WALKLEY-BLACK)

PROJECT NAME: N/A
PROJECT NO: E5D290237

SAMPLE ID.	DEPTH, ft.	MATRIX	TOTAL ORGANIC CARBON (mg/kg)
MWG002_SS079_0001	N/A	SOIL	610
MWG002_SS135_0001	N/A	SOIL	600
MWC009_SS098_0001	N/A	SOIL	570

F6E3: 1348

'TS Laboratories, Inc.

STL, Inc.
PTS File No: 35285

PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

:OJECT NAME: N/A
:OJECT NO: E5D290237

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
MWG002-SS074-0001	N/A	Fine sand	0.356	0.00	0.00	40.68	44.52	11.14	3.66	14.79
MWG002-SS079-0001	N/A	Silt	0.057	0.00	0.00	0.01	37.04	54.03	8.92	62.95
MWG002-SS107-0001	N/A	Fine sand	0.138	0.00	0.00	0.36	73.27	22.04	4.32	26.37
MWG002_SS124_0001	N/A	Medium sand	0.387	1.11	18.45	26.64	50.69	(2)	(2)	3.11
MWG002-SS135-0001	N/A	Silt	0.004	0.00	0.00	0.00	0.00	46.26	53.74	100.00
MWG002-SS176-0001	N/A	Fine sand	0.267	0.00	0.00	24.61	61.65	10.58	3.16	13.74
MWC009-SS080-0001	N/A	Fine sand	0.376	0.00	0.00	42.25	46.55	8.75	2.45	11.20
MWC009-SS098-0001	N/A	Silt	0.020	0.00	0.00	0.00	8.28	73.97	17.75	91.72
MWC009-SS111-0001	N/A	Fine sand	0.267	0.00	0.00	21.88	54.52	16.56	7.04	23.60

(1) Based on Mean from Trask
(2) Dry sieve data does not differentiate silt/clay fractions

3:

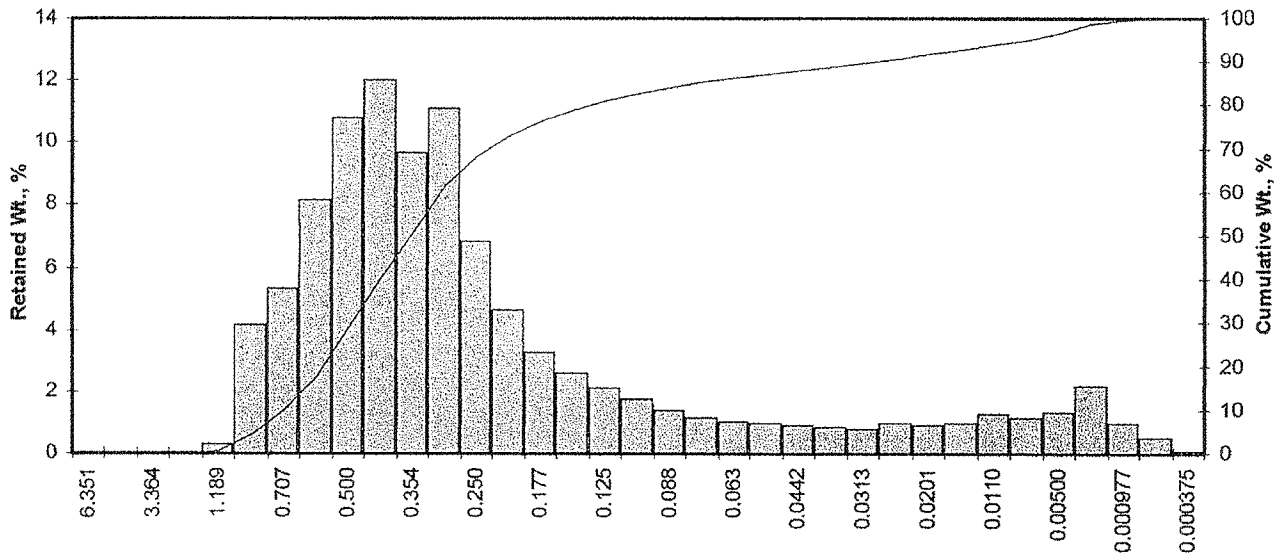
BOE-C6-0104778

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35285
Project:	N/A	**Sample ID:**	MWG002-SS074-0001
Project No:	E5D290237	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.29	0.29	0.29
0.0331	0.841	0.25	20	4.15	4.15	4.44
0.0278	0.707	0.50	25	5.30	5.30	9.75
0.0234	0.595	0.75	30	8.12	8.12	17.87
0.0197	0.500	1.00	35	10.80	10.81	28.68
0.0166	0.420	1.25	40	12.00	12.01	40.68
0.0139	0.354	1.50	45	9.66	9.67	50.35
0.0117	0.297	1.75	50	11.10	11.11	61.45
0.0098	0.250	2.00	60	6.80	6.80	68.26
0.0083	0.210	2.25	70	4.66	4.66	72.92
0.0070	0.177	2.50	80	3.27	3.27	76.19
0.0059	0.149	2.75	100	2.57	2.57	78.76
0.0049	0.125	3.00	120	2.13	2.13	80.89
0.0041	0.105	3.25	140	1.74	1.74	82.64
0.0035	0.088	3.50	170	1.40	1.40	84.04
0.0029	0.074	3.75	200	1.17	1.17	85.21
0.0025	0.063	4.00	230	1.04	1.04	86.25
0.0021	0.053	4.25	270	0.96	0.96	87.21
0.00174	0.0442	4.50	325	0.89	0.89	88.10
0.00146	0.0372	4.75	400	0.83	0.83	88.93
0.00123	0.0313	5.00	450	0.78	0.78	89.71
0.000986	0.0250	5.32	500	0.96	0.96	90.67
0.000790	0.0201	5.64	635	0.93	0.93	91.60
0.000615	0.0156	6.00		0.98	0.98	92.58
0.000435	0.0110	6.50		1.27	1.27	93.85
0.000308	0.00781	7.00		1.16	1.16	95.01
0.000197	0.00500	7.65		1.33	1.33	96.34
0.000077	0.00195	9.00		2.15	2.15	98.49
0.000038	0.000977	10.00		0.99	0.99	99.48
0.000019	0.000488	11.00		0.47	0.47	99.95
0.000015	0.000375	11.38		0.05	0.05	100.00
TOTALS				**99.90**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	0.28	0.0325	0.826
10	0.51	0.0277	0.703
16	0.69	0.0244	0.619
25	0.91	0.0209	0.530
40	1.24	0.0167	0.425
50	1.49	0.0140	0.356
60	1.72	0.0120	0.304
75	2.41	0.0074	0.188
84	3.49	0.0035	0.089
90	5.10	0.0012	0.029
95	6.99	0.0003	0.008

Measure	Trask	Inman	Folk-Ward
Median, phi	1.49	1.49	1.49
Median, in.	0.0140	0.0140	0.0140
Median, mm	0.356	0.356	0.356
Mean, phi	1.46	2.09	1.89
Mean, in.	0.0141	0.0092	0.0106
Mean, mm	0.359	0.234	0.269
Sorting	1.678	1.401	1.718
Skewness	0.888	0.430	0.534
Kurtosis	0.254	1.399	1.843
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Mean from Trask)	

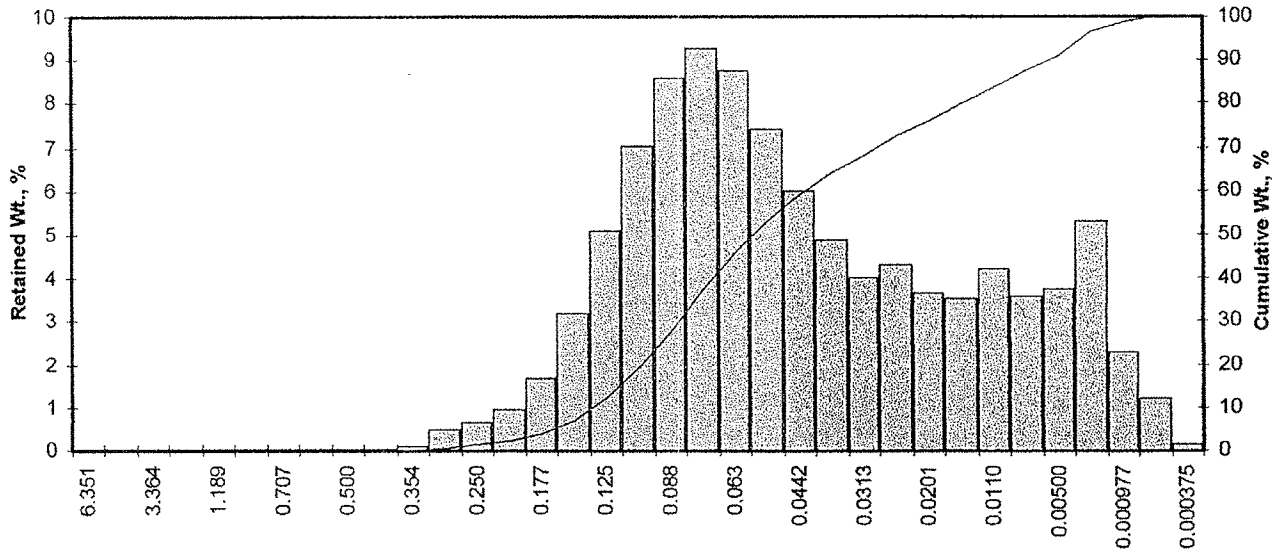
Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	40.68
Fine Sand	200	44.52
Silt	>0.005 mm	11.14
Clay	<0.005 mm	3.66
	Total	**100**

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35285
Project:	N/A	**Sample ID:**	MWG002-SS079-0001
Project No:	E5D290237	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.01	0.01	0.01
0.0139	0.354	1.50	45	0.10	0.10	0.11
0.0117	0.297	1.75	50	0.48	0.48	0.59
0.0098	0.250	2.00	60	0.66	0.66	1.25
0.0083	0.210	2.25	70	0.96	0.96	2.21
0.0070	0.177	2.50	80	1.69	1.69	3.90
0.0059	0.149	2.75	100	3.21	3.21	7.11
0.0049	0.125	3.00	120	5.07	5.07	12.18
0.0041	0.105	3.25	140	7.02	7.02	19.20
0.0035	0.088	3.50	170	8.58	8.58	27.78
0.0029	0.074	3.75	200	9.27	9.27	37.05
0.0025	0.063	4.00	230	8.73	8.73	45.78
0.0021	0.053	4.25	270	7.41	7.41	53.19
0.00174	0.0442	4.50	325	5.97	5.97	59.16
0.00146	0.0372	4.75	400	4.85	4.85	64.01
0.00123	0.0313	5.00	450	4.02	4.02	68.03
0.000986	0.0250	5.32	500	4.30	4.30	72.33
0.000790	0.0201	5.64	635	3.65	3.65	75.98
0.000615	0.0156	6.00		3.55	3.55	79.53
0.000435	0.0110	6.50		4.23	4.23	83.76
0.000308	0.00781	7.00		3.56	3.56	87.32
0.000197	0.00500	7.65		3.76	3.76	91.08
0.000077	0.00195	9.00		5.29	5.29	96.37
0.000038	0.000977	10.00		2.30	2.30	98.67
0.000019	0.000488	11.00		1.21	1.21	99.88
0.000015	0.000375	11.38		0.12	0.12	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	2.59	0.0066	0.167
10	2.89	0.0053	0.135
16	3.14	0.0045	0.114
25	3.42	0.0037	0.093
40	3.83	0.0028	0.070
50	4.14	0.0022	0.057
60	4.54	0.0017	0.043
75	5.55	0.0008	0.021
84	6.53	0.0004	0.011
90	7.46	0.0002	0.006
95	8.65	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.14	4.14	4.14
Median, in.	0.0022	0.0022	0.0022
Median, mm	0.057	0.057	0.057
Mean, phi	4.12	4.83	4.60
Mean, in.	0.0023	0.0014	0.0016
Mean, mm	0.057	0.035	0.041
Sorting	2.096	1.699	1.768
Skewness	0.788	0.408	0.447
Kurtosis	0.280	0.785	1.164
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

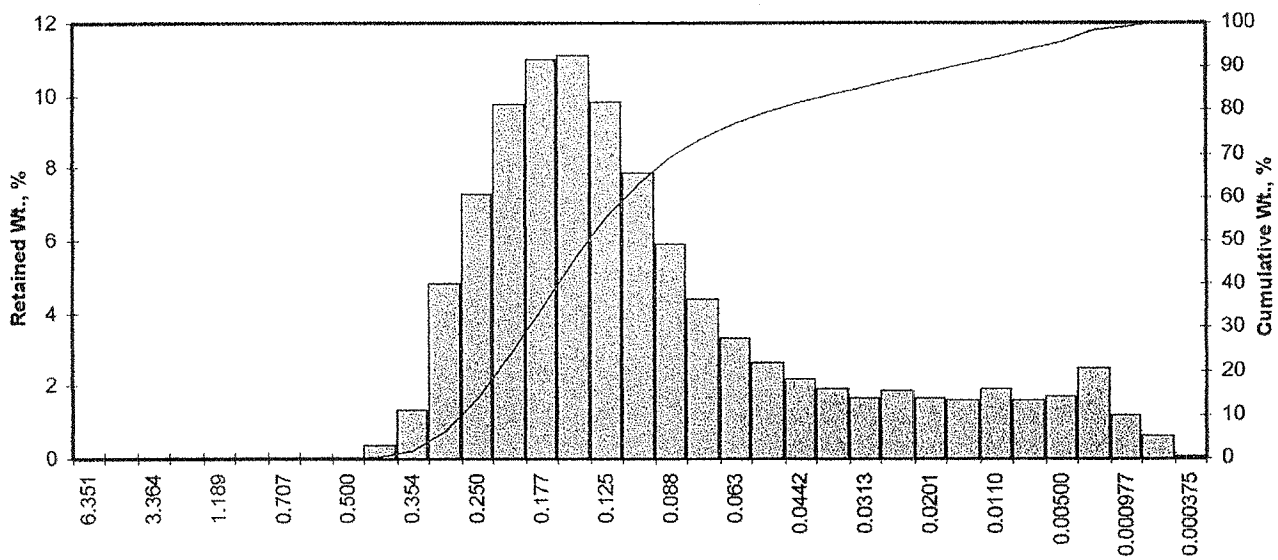
Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.01
Fine Sand	200	37.04
Silt	>0.005 mm	54.03
Clay	<0.005 mm	8.92
	Total	100

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35285
Project:	N/A	**Sample ID:**	MWG002-SS107-0001
Project No:	E5D290237	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.01	0.01	0.01
0.0166	0.420	1.25	40	0.35	0.35	0.36
0.0139	0.354	1.50	45	1.34	1.34	1.70
0.0117	0.297	1.75	50	4.80	4.80	6.51
0.0098	0.250	2.00	60	7.27	7.27	13.78
0.0083	0.210	2.25	70	9.76	9.77	23.55
0.0070	0.177	2.50	80	11.00	11.01	34.56
0.0059	0.149	2.75	100	11.10	11.11	45.66
0.0049	0.125	3.00	120	9.80	9.81	55.47
0.0041	0.105	3.25	140	7.86	7.87	63.34
0.0035	0.088	3.50	170	5.90	5.90	69.24
0.0029	0.074	3.75	200	4.39	4.39	73.63
0.0025	0.063	4.00	230	3.32	3.32	76.96
0.0021	0.053	4.25	270	2.62	2.62	79.58
0.00174	0.0442	4.50	325	2.18	2.18	81.76
0.00146	0.0372	4.75	400	1.89	1.89	83.65
0.00123	0.0313	5.00	450	1.66	1.66	85.31
0.000986	0.0250	5.32	500	1.87	1.87	87.18
0.000790	0.0201	5.64	635	1.64	1.64	88.82
0.000615	0.0156	6.00		1.62	1.62	90.44
0.000435	0.0110	6.50		1.93	1.93	92.38
0.000308	0.00781	7.00		1.61	1.61	93.99
0.000197	0.00500	7.65		1.69	1.69	95.68
0.000077	0.00195	9.00		2.49	2.49	98.17
0.000038	0.000977	10.00		1.17	1.17	99.34
0.000019	0.000488	11.00		0.60	0.60	99.94
0.000015	0.000375	11.38		0.06	0.06	100.00
TOTALS				**99.90**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	1.67	0.0124	0.314
10	1.87	0.0108	0.274
16	2.06	0.0095	0.240
25	2.28	0.0081	0.205
40	2.62	0.0064	0.162
50	2.86	0.0054	0.138
60	3.14	0.0045	0.113
75	3.85	0.0027	0.069
84	4.80	0.0014	0.036
90	5.90	0.0007	0.017
95	7.39	0.0002	0.006

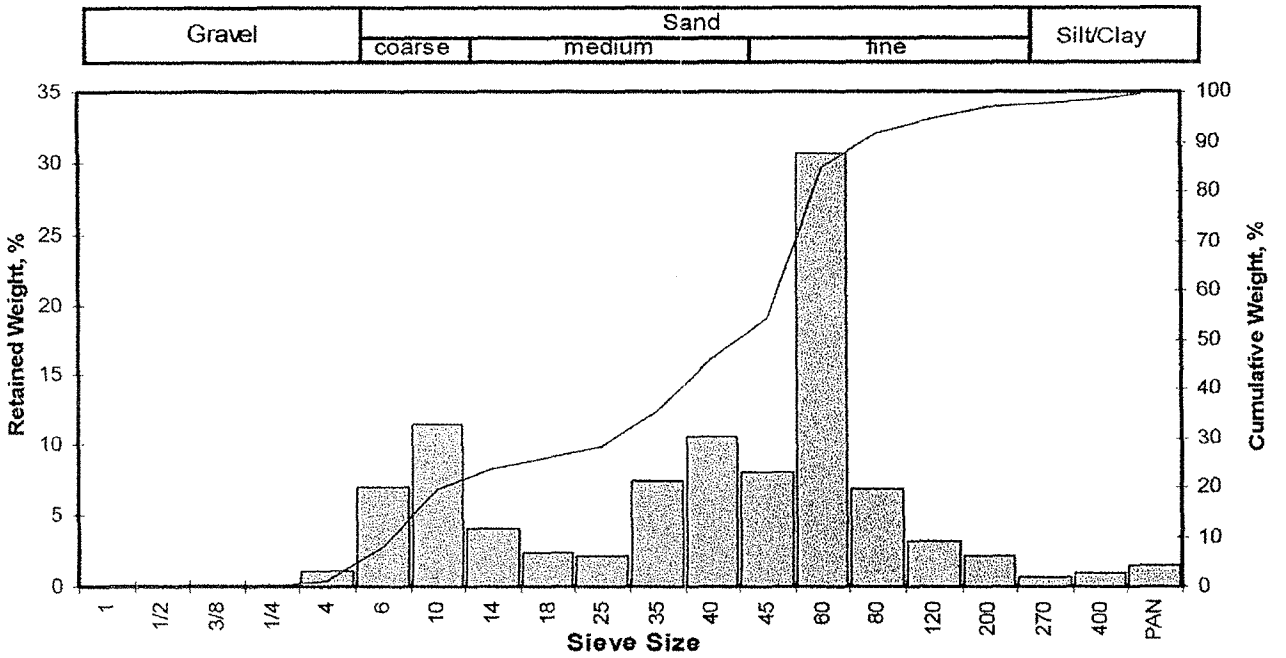
Measure	Trask	Inman	Folk-Ward
Median, phi	2.86	2.86	2.86
Median, in.	0.0054	0.0054	0.0054
Median, mm	0.138	0.138	0.138
Mean, phi	2.86	3.43	3.24
Mean, in.	0.0054	0.0037	0.0042
Mean, mm	0.137	0.093	0.106
Sorting	1.723	1.373	1.552
Skewness	0.866	0.415	0.499
Kurtosis	0.265	1.081	1.492
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.36
Fine Sand	200	73.27
Silt	>0.005 mm	22.04
Clay	<0.005 mm	4.32
	Total	**100**

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D422M

Client:	STL, Inc.	**PTS File No:**	35285
Project:	N/A	**Sample ID:**	MWG002_SS124_0001
Project No:	E5D290237	**Depth, ft:**	N/A



Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.36	1.11	1.11
0.1324	3.364	-1.75	6	2.26	6.96	8.07
0.0787	2.000	-1.00	10	3.73	11.49	19.56
0.0557	1.414	-0.50	14	1.35	4.16	23.71
0.0394	1.000	0.00	18	0.76	2.34	26.05
0.0278	0.707	0.50	25	0.70	2.16	28.21
0.0197	0.500	1.00	35	2.39	7.36	35.57
0.0166	0.420	1.25	40	3.45	10.63	46.20
0.0139	0.354	1.50	45	2.61	8.04	54.23
0.0098	0.250	2.00	60	9.93	30.58	84.82
0.0070	0.177	2.50	80	2.21	6.81	91.62
0.0049	0.125	3.00	120	1.04	3.20	94.83
0.0029	0.074	3.75	200	0.67	2.06	96.89
0.0021	0.053	4.25	270	0.22	0.68	97.57
0.0015	0.037	4.75	400	0.30	0.92	98.49
			PAN	0.49	1.51	100.00
TOTALS				32.47	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-1.97	0.1543	3.919
10	-1.62	0.1213	3.082
16	-1.23	0.0925	2.349
25	-0.23	0.0460	1.169
40	1.10	0.0183	0.465
50	1.37	0.0152	0.387
60	1.59	0.0130	0.331
75	1.84	0.0110	0.279
84	1.99	0.0099	0.252
90	2.38	0.0076	0.192
95	3.06	0.0047	0.120

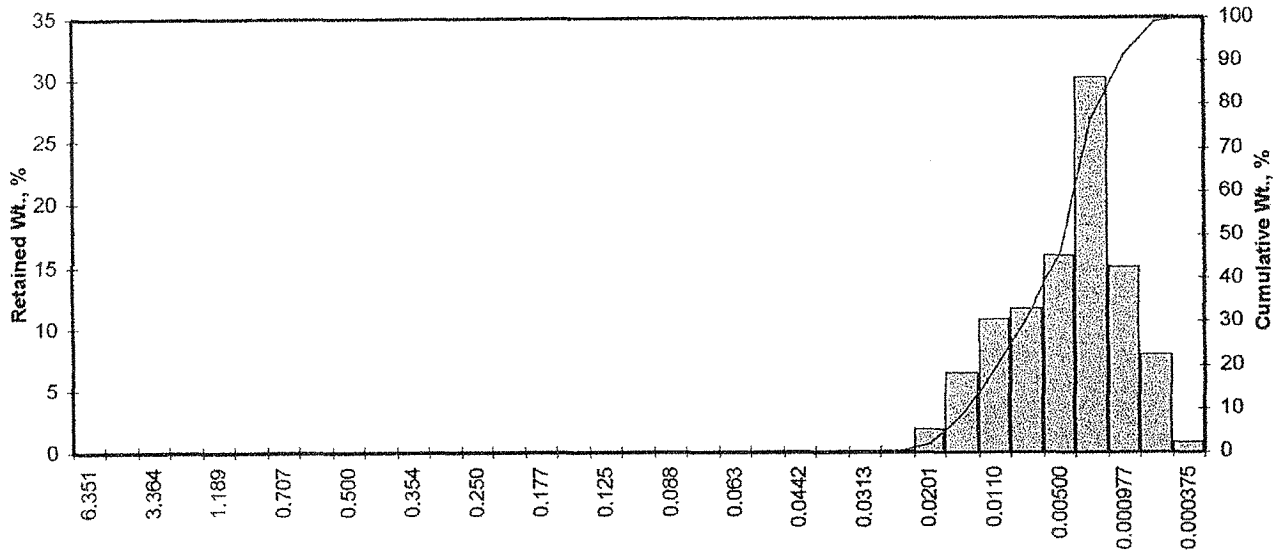
Measure	Trask	Inman	Folk-Ward
Median, phi	1.37	1.37	1.37
Median, in.	0.0152	0.0152	0.0152
Median, mm	0.387	0.387	0.387
Mean, phi	0.47	0.38	0.71
Mean, in.	0.0285	0.0303	0.0241
Mean, mm	0.724	0.770	0.612
Sorting	2.045	1.609	1.567
Skewness	1.476	-0.616	-0.471
Kurtosis	0.154	0.564	0.999
Grain Size Description (ASTM-USCS Scale)		Medium sand (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	1.11
Coarse Sand	10	18.45
Medium Sand	40	26.64
Fine Sand	200	50.69
Silt/Clay	<200	3.11
	Total	100

PTS Laboratories, Inc. **Particle Size Analysis - ASTM D4464M**

Client:	STL, Inc.	**PTS File No:**	35285
Project:	N/A	**Sample ID:**	MWG002-SS135-0001
Project No:	E5D290237	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.00	0.00	0.00
0.0049	0.125	3.00	120	0.00	0.00	0.00
0.0041	0.105	3.25	140	0.00	0.00	0.00
0.0035	0.088	3.50	170	0.00	0.00	0.00
0.0029	0.074	3.75	200	0.00	0.00	0.00
0.0025	0.063	4.00	230	0.00	0.00	0.00
0.0021	0.053	4.25	270	0.00	0.00	0.00
0.00174	0.0442	4.50	325	0.00	0.00	0.00
0.00146	0.0372	4.75	400	0.00	0.00	0.00
0.00123	0.0313	5.00	450	0.00	0.00	0.00
0.000986	0.0250	5.32	500	0.02	0.02	0.02
0.000790	0.0201	5.64	635	1.78	1.78	1.80
0.000615	0.0156	6.00		6.35	6.35	8.15
0.000435	0.0110	6.50		10.70	10.70	18.86
0.000308	0.00781	7.00		11.60	11.60	30.46
0.000197	0.00500	7.65		15.80	15.80	46.26
0.000077	0.00195	9.00		30.20	30.21	76.47
0.000038	0.000977	10.00		14.90	14.90	91.37
0.000019	0.000488	11.00		7.83	7.83	99.20
0.000015	0.000375	11.38		0.80	0.80	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	5.82	0.0007	0.018
10	6.09	0.0006	0.015
16	6.37	0.0005	0.012
25	6.76	0.0004	0.009
40	7.39	0.0002	0.006
50	7.81	0.0002	0.004
60	8.26	0.0001	0.003
75	8.93	0.0001	0.002
84	9.51	0.0001	0.001
90	9.91	0.0000	0.001
95	10.46	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	7.81	7.81	7.81
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.004	0.004	0.004
Mean, phi	7.48	7.94	7.89
Mean, in.	0.0002	0.0002	0.0002
Mean, mm	0.006	0.004	0.004
Sorting	2.121	1.569	1.488
Skewness	0.975	0.079	0.110
Kurtosis	0.261	0.479	0.877
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	0.00
Silt	>0.005 mm	46.26
Clay	<0.005 mm	53.74
	Total	**100**

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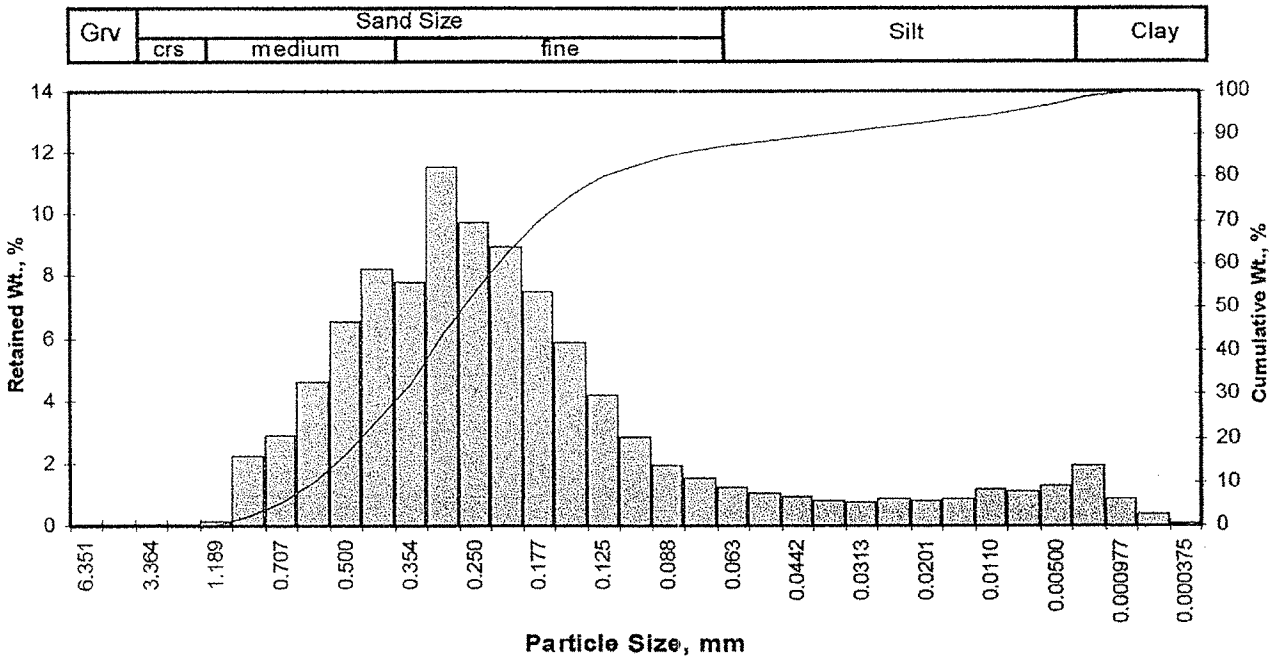
PTS Laboratories, Inc. — **Particle Size Analysis - ASTM D4464M**

Client:	STL, Inc.	**PTS File No:**	35285
Project:	N/A	**Sample ID:**	MWG002-SS176-0001
Project No:	E5D290237	**Depth, ft:**	N/A



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.13	0.13	0.13
0.0331	0.841	0.25	20	2.24	2.24	2.37
0.0278	0.707	0.50	25	2.91	2.91	5.28
0.0234	0.595	0.75	30	4.59	4.59	9.87
0.0197	0.500	1.00	35	6.54	6.54	16.41
0.0166	0.420	1.25	40	8.20	8.20	24.61
0.0139	0.354	1.50	45	7.76	7.76	32.37
0.0117	0.297	1.75	50	11.50	11.50	43.87
0.0098	0.250	2.00	60	9.73	9.73	53.60
0.0083	0.210	2.25	70	8.94	8.94	62.54
0.0070	0.177	2.50	80	7.50	7.50	70.04
0.0059	0.149	2.75	100	5.83	5.83	75.87
0.0049	0.125	3.00	120	4.14	4.14	80.01
0.0041	0.105	3.25	140	2.82	2.82	82.83
0.0035	0.088	3.50	170	1.95	1.95	84.78
0.0029	0.074	3.75	200	1.48	1.48	86.26
0.0025	0.063	4.00	230	1.21	1.21	87.47
0.0021	0.053	4.25	270	1.04	1.04	88.51
0.00174	0.0442	4.50	325	0.90	0.90	89.41
0.00146	0.0372	4.75	400	0.80	0.80	90.21
0.00123	0.0313	5.00	450	0.72	0.72	90.93
0.000986	0.0250	5.32	500	0.84	0.84	91.77
0.000790	0.0201	5.64	635	0.79	0.79	92.56
0.000615	0.0156	6.00		0.84	0.84	93.40
0.000435	0.0110	6.50		1.13	1.13	94.53
0.000308	0.00781	7.00		1.07	1.07	95.60
0.000197	0.00500	7.65		1.24	1.24	96.84
0.000077	0.00195	9.00		1.94	1.94	98.78
0.000038	0.000977	10.00		0.82	0.82	99.60
0.000019	0.000488	11.00		0.37	0.37	99.97
0.000015	0.000375	11.38		0.04	0.03	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	0.48	0.0283	0.719
10	0.75	0.0233	0.593
16	0.98	0.0199	0.505
25	1.26	0.0164	0.417
40	1.67	0.0124	0.315
50	1.91	0.0105	0.267
60	2.18	0.0087	0.221
75	2.71	0.0060	0.153
84	3.40	0.0037	0.095
90	4.69	0.0015	0.039
95	6.72	0.0004	0.009

Measure	Trask	Inman	Folk-Ward
Median, phi	1.91	1.91	1.91
Median, in.	0.0105	0.0105	0.0105
Median, mm	0.267	0.267	0.267
Mean, phi	1.81	2.19	2.10
Mean, in.	0.0112	0.0086	0.0092
Mean, mm	0.285	0.219	0.234
Sorting	1.653	1.208	1.550
Skewness	0.946	0.236	0.389
Kurtosis	0.239	1.585	1.765
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Mean from Trask)	

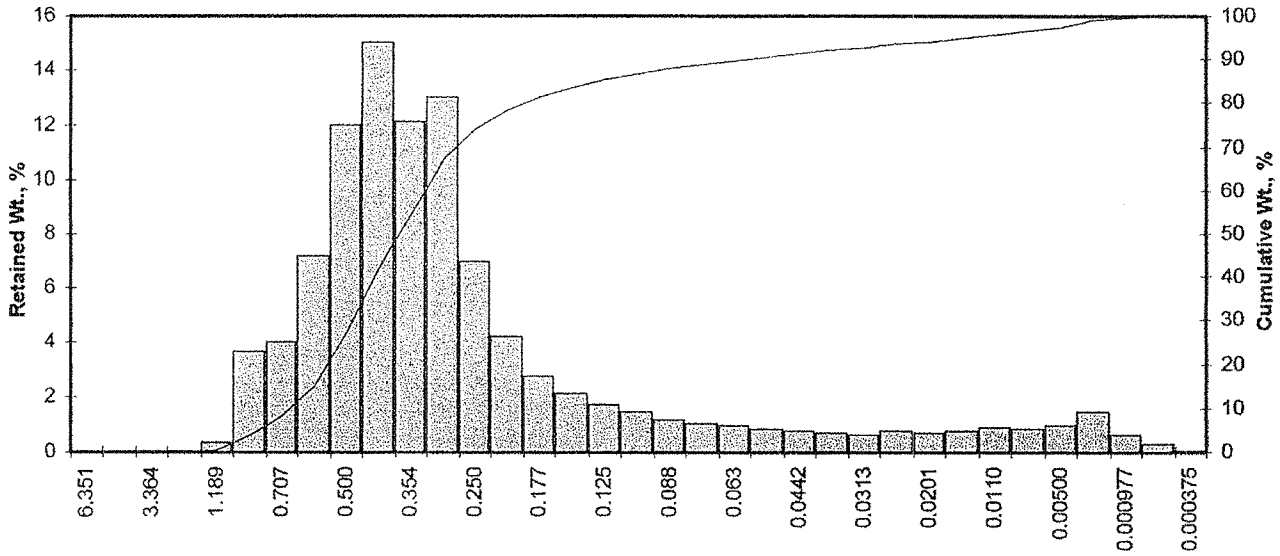
Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	24.61
Fine Sand	200	61.65
Silt	>0.005 mm	10.58
Clay	<0.005 mm	3.16
	Total	**100**

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35285
Project:	N/A	**Sample ID:**	MWC009-SS080-0001
Project No:	E5D290237	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.37	0.37	0.37
0.0331	0.841	0.25	20	3.64	3.64	4.01
0.0278	0.707	0.50	25	4.02	4.02	8.04
0.0234	0.595	0.75	30	7.19	7.20	15.23
0.0197	0.500	1.00	35	12.00	12.01	27.24
0.0166	0.420	1.25	40	15.00	15.01	42.25
0.0139	0.354	1.50	45	12.10	12.11	54.36
0.0117	0.297	1.75	50	13.00	13.01	67.38
0.0098	0.250	2.00	60	6.96	6.97	74.34
0.0083	0.210	2.25	70	4.19	4.19	78.53
0.0070	0.177	2.50	80	2.74	2.74	81.28
0.0059	0.149	2.75	100	2.13	2.13	83.41
0.0049	0.125	3.00	120	1.75	1.75	85.16
0.0041	0.105	3.25	140	1.46	1.46	86.62
0.0035	0.088	3.50	170	1.18	1.18	87.80
0.0029	0.074	3.75	200	1.00	1.00	88.80
0.0025	0.063	4.00	230	0.94	0.94	89.74
0.0021	0.053	4.25	270	0.85	0.85	90.59
0.00174	0.0442	4.50	325	0.76	0.76	91.35
0.00146	0.0372	4.75	400	0.69	0.69	92.05
0.00123	0.0313	5.00	450	0.62	0.62	92.67
0.000986	0.0250	5.32	500	0.73	0.73	93.40
0.000790	0.0201	5.64	635	0.72	0.72	94.12
0.000615	0.0156	6.00		0.74	0.74	94.86
0.000435	0.0110	6.50		0.91	0.91	95.77
0.000308	0.00781	7.00		0.83	0.83	96.60
0.000197	0.00500	7.65		0.95	0.95	97.55
0.000077	0.00195	9.00		1.46	1.46	99.01
0.000038	0.000977	10.00		0.65	0.65	99.66
0.000019	0.000488	11.00		0.31	0.31	99.97
0.000015	0.000375	11.38		0.03	0.03	100.00
TOTALS				**99.90**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	0.31	0.0317	0.806
10	0.57	0.0266	0.674
16	0.77	0.0232	0.588
25	0.95	0.0203	0.516
40	1.21	0.0170	0.432
50	1.41	0.0148	0.376
60	1.61	0.0129	0.328
75	2.04	0.0096	0.243
84	2.83	0.0055	0.140
90	4.08	0.0023	0.059
95	6.08	0.0006	0.015

Measure	Trask	Inman	Folk-Ward
Median, phi	1.41	1.41	1.41
Median, in.	0.0148	0.0148	0.0148
Median, mm	0.376	0.376	0.376
Mean, phi	1.40	1.80	1.67
Mean, in.	0.0150	0.0113	0.0124
Mean, mm	0.380	0.287	0.314
Sorting	1.457	1.034	1.391
Skewness	0.942	0.377	0.498
Kurtosis	0.222	1.788	2.176
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Mean from Trask)	

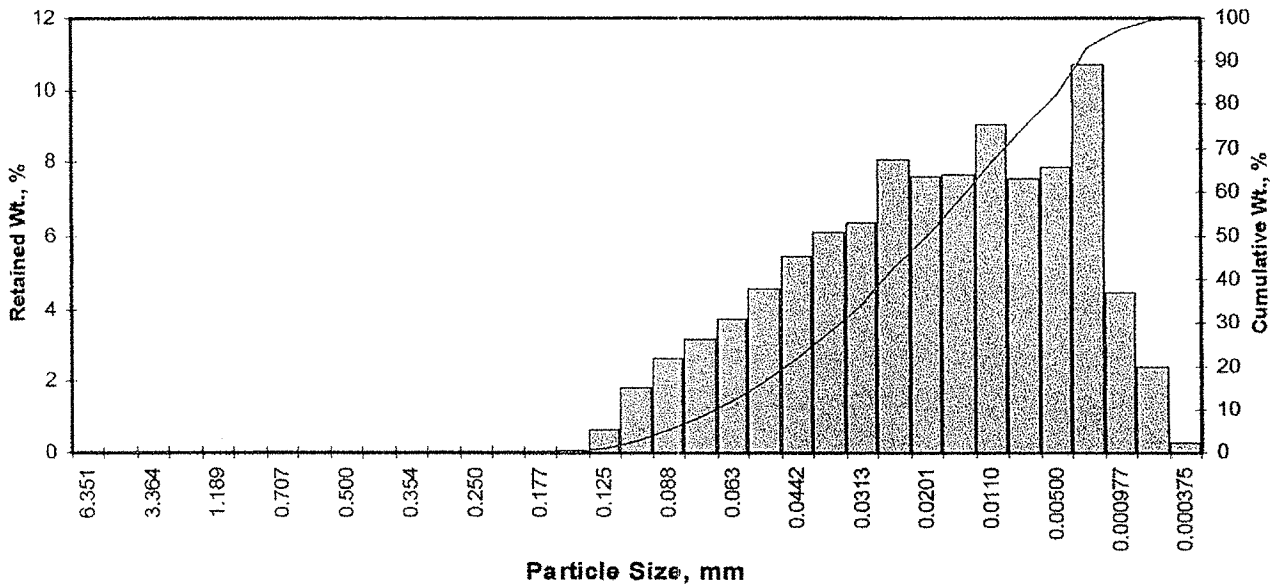
Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	42.25
Fine Sand	200	46.55
Silt	>0.005 mm	8.75
Clay	<0.005 mm	2.45
	Total	**100**

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35285
Project:	N/A	**Sample ID:**	MWC009-SS098-0001
Project No:	E5D290237	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.04	0.04	0.04
0.0049	0.125	3.00	120	0.61	0.61	0.65
0.0041	0.105	3.25	140	1.81	1.81	2.46
0.0035	0.088	3.50	170	2.66	2.66	5.12
0.0029	0.074	3.75	200	3.16	3.16	8.28
0.0025	0.063	4.00	230	3.75	3.75	12.03
0.0021	0.053	4.25	270	4.56	4.56	16.58
0.00174	0.0442	4.50	325	5.44	5.44	22.02
0.00146	0.0372	4.75	400	6.08	6.08	28.10
0.00123	0.0313	5.00	450	6.36	6.36	34.46
0.000986	0.0250	5.32	500	8.07	8.07	42.53
0.000790	0.0201	5.64	635	7.62	7.62	50.14
0.000615	0.0156	6.00		7.64	7.64	57.78
0.000435	0.0110	6.50		9.07	9.07	66.85
0.000308	0.00781	7.00		7.55	7.55	74.40
0.000197	0.00500	7.65		7.85	7.85	82.25
0.000077	0.00195	9.00		10.70	10.70	92.94
0.000038	0.000977	10.00		4.44	4.44	97.38
0.000019	0.000488	11.00		2.37	2.37	99.75
0.000015	0.000375	11.38		0.25	0.25	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than

Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	3.49	0.0035	0.089
10	3.86	0.0027	0.069
16	4.22	0.0021	0.054
25	4.62	0.0016	0.041
40	5.22	0.0011	0.027
50	5.63	0.0008	0.020
60	6.12	0.0006	0.014
75	7.05	0.0003	0.008
84	7.87	0.0002	0.004
90	8.63	0.0001	0.003
95	9.46	0.0001	0.001

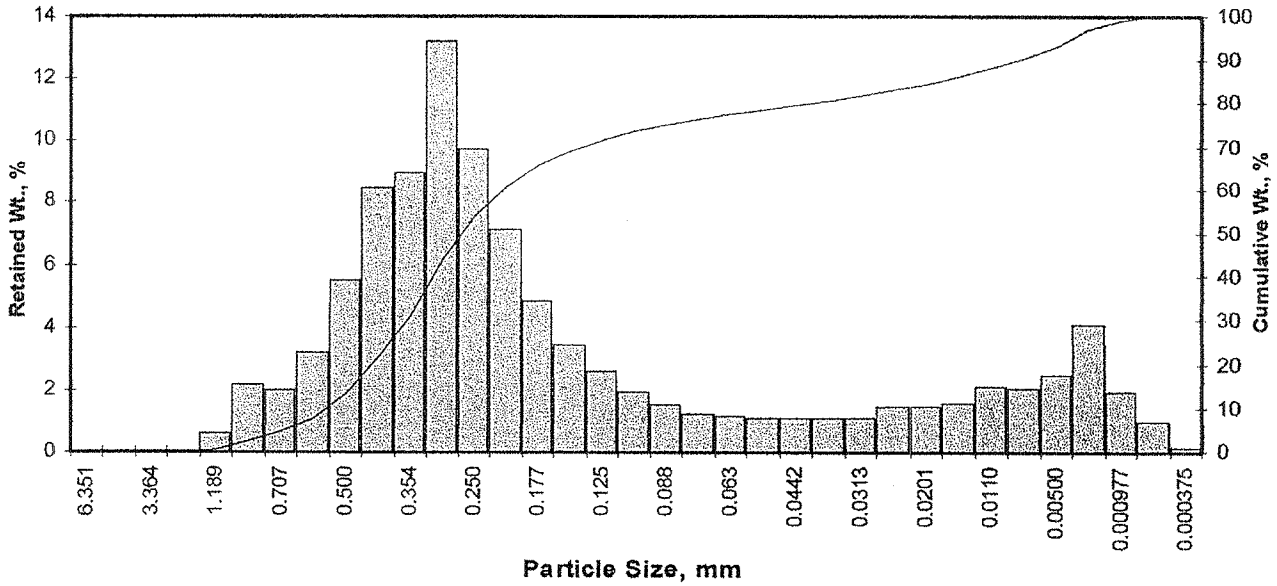
Measure	Trask	Inman	Folk-Ward
Median, phi	5.63	5.63	5.63
Median, in.	0.0008	0.0008	0.0008
Median, mm	0.020	0.020	0.020
Mean, phi	5.38	6.04	5.91
Mean, in.	0.0009	0.0006	0.0007
Mean, mm	0.024	0.015	0.017
Sorting	2.319	1.825	1.818
Skewness	0.869	0.224	0.253
Kurtosis	0.250	0.637	1.009
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	8.28
Silt	>0.005 mm	73.97
Clay	<0.005 mm	17.75
	Total	100

PTS Laboratories, Inc. — **Particle Size Analysis - ASTM D4464M**

Client:	STL, Inc.	**PTS File No:**	35285
Project:	N/A	**Sample ID:**	MWC009-SS111-0001
Project No:	E5D290237	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.58	0.58	0.58
0.0331	0.841	0.25	20	2.19	2.19	2.77
0.0278	0.707	0.50	25	2.00	2.00	4.77
0.0234	0.595	0.75	30	3.17	3.17	7.94
0.0197	0.500	1.00	35	5.48	5.48	13.43
0.0166	0.420	1.25	40	8.45	8.45	21.88
0.0139	0.354	1.50	45	8.95	8.95	30.83
0.0117	0.297	1.75	50	13.20	13.21	44.04
0.0098	0.250	2.00	60	9.72	9.72	53.76
0.0083	0.210	2.25	70	7.11	7.11	60.87
0.0070	0.177	2.50	80	4.80	4.80	65.67
0.0059	0.149	2.75	100	3.44	3.44	69.12
0.0049	0.125	3.00	120	2.60	2.60	71.72
0.0041	0.105	3.25	140	1.96	1.96	73.68
0.0035	0.088	3.50	170	1.49	1.49	75.17
0.0029	0.074	3.75	200	1.23	1.23	76.40
0.0025	0.063	4.00	230	1.12	1.12	77.52
0.0021	0.053	4.25	270	1.08	1.08	78.60
0.00174	0.0442	4.50	325	1.06	1.06	79.66
0.00146	0.0372	4.75	400	1.07	1.07	80.73
0.00123	0.0313	5.00	450	1.08	1.08	81.81
0.000986	0.0250	5.32	500	1.42	1.42	83.23
0.000790	0.0201	5.64	635	1.45	1.45	84.68
0.000615	0.0156	6.00		1.57	1.57	86.25
0.000435	0.0110	6.50		2.13	2.13	88.38
0.000308	0.00781	7.00		2.07	2.07	90.45
0.000197	0.00500	7.65		2.50	2.50	92.96
0.000077	0.00195	9.00		4.09	4.09	97.05
0.000038	0.000977	10.00		1.91	1.91	98.96
0.000019	0.000488	11.00		0.95	0.95	99.91
0.000015	0.000375	11.38		0.09	0.09	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	0.52	0.0275	0.698
10	0.84	0.0219	0.557
16	1.08	0.0187	0.474
25	1.34	0.0156	0.396
40	1.67	0.0123	0.313
50	1.90	0.0105	0.267
60	2.22	0.0085	0.215
75	3.47	0.0035	0.090
84	5.49	0.0009	0.022
90	6.89	0.0003	0.008
95	8.32	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	1.90	1.90	1.90
Median, in.	0.0105	0.0105	0.0105
Median, mm	0.267	0.267	0.267
Mean, phi	2.04	3.28	2.82
Mean, in.	0.0096	0.0040	0.0056
Mean, mm	0.243	0.103	0.141
Sorting	2.095	2.207	2.286
Skewness	0.707	0.625	0.635
Kurtosis	0.279	0.768	1.498
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	21.88
Fine Sand	200	54.52
Silt	>0.005 mm	16.56
Clay	<0.005 mm	7.04
	Total	**100**

Chain of Custody Record

PTS 35285

SEVERN TRENT **STL**
Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: STL Los Angeles	Project Manager: Diane Suzuki	Date:	Chain of Custody Number: 220738
Address: 1721 S Grand Ave	Telephone Number (Area Code)/Fax Number: 714-258-8610 0921	Lab Number:	Page 1 of 1
City: Santa Ana; State: CA; Zip Code: 92705	Site Contact:	Lab Contact:	
Project Name and Location (State): ESD290237	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Analysis (Attach list if more space is needed)

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	MOISTURE CONTENT ASTM D 2216	BULK DENSITY ASTM D 2937	VERTICAL HYDRAULIC CONDUCT ARI RP4D/ASTM D5084	TOTAL ORGANIC CARBON WALKLEY-BLACK	POROSITY API RP40	GRAIN SIZE DISTRIBUTION ASTM D422	Special Instructions/Conditions of Rece
MWG002-SS074-0001	42605	0805				X	X							X				X	See attached Sheet for tests
MWG002-SS079-0001		0810											X	X	X	X	X	X	
MWG002-SS107-0001		0820												X				X	
MWG002-SS124-0001		1000												X				X	
MWG002-SS135-0001	42605	1205											X	X	X	X	X	X	
MWG002-SS176-0001	42705	1130											X					X	
MWC009-SS080-0001	42805	0800											X					X	
MWC009-SS098-0001		0815											X			X		X	
MWC009-SS111-0001	42805	0830					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 NORMAL

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	5-4-05	14:00	1. Received By: [signature] PTS	5/5/05	11:
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments:

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

F6E3: 1348

BOE-C6-0104788

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

May 25, 2005

STL LOT NUMBER: E5E200399
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

Scott Zachary
Haley & Aldrich Inc
9040 Friars Road
Suite 202
San Diego, CA 92108

Dear Mr. Zachary,

This report contains the analytical results for the eight samples received under chain of custody by STL Los Angeles on May 20, 2005. These samples are associated with your Boeing former C6 facility Torrance, California project.

All applicable quality control procedures met method-specified acceptance criteria. 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 36 total pages in this report.

[redacted]

F6F3114: :

BOE-C6-0104789

F6F3114:

...ain of ...stody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

...124 (0901)

...nt: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 5/20/05	Chain of Custody Number: 142448
...ress: 9040 FRIARS ROAD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619.280.9210	Lab Number: E5E260399	Page 1 of
SAN DIEGO, State: CA, Zip Code: 92108	Site Contact: T. HAMMOND	Lab Contact: D. SUZUKI	
...ect Name and Location (State): C6 TORRANCE	Carrier/Waybill Number:		
...tract/Purchase Order/Quote No.: 28882-110			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (...ntainers 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	8260B	Special Instructions/ Conditions of Receipt
3_HA052005_0001	5/20/05	10:30		X						3			X	
_HA052005_0001	5/20/05	10:45		X						3			X	
_HA052005_0002	5/20/05	11:00		X						3			X	
3_HA052005_0001	5/20/05	11:45		X						3			X	
WG001_WG052005_0001	5/20/05	14:05		X						3			X	
WG002_WG052005_0001	5/20/05	16:25		X						3			X	
WG002_WG052005_0002	5/20/05	16:30		X						3			X	
WC009_WG052005_0001	5/20/05	1815		X						3			X	

...sible 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)

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

QC Requirements (Specify)

	Date	Time		Date	Time
...elinquished By: [signature]	5/20/05	21:05	1. Received By: [signature]	5-20-05	21:05
...elinquished By:			2. Received By:		
...elinquished By:			3. Received By:		

...nments: Temp = 4.8 + cF.4 = 5.2 MG

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

3

BOE-C6-0104790

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 5-20-05

LIMS Lot #: F5E200399 Quote #: 42295

Client Name: Haley & Aldrich Project: C-6 Torrance

Received by: MG Date/Time Received: 5-20-05/21:05

Delivered by : ☑ Client ☐ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other _____

****

	Initial / Date
Custody Seal Status Cooler: ☐ Intact ☐ Broken ☑ None	MG 5-20-05
Custody Seal Status Samples: ☐ Intact ☐ Broken ☑ None	
Custody Seal #(s): _____ ☑ No Seal #	
Sampler Signature on COC ☐ Yes ☐ No ☑ N/A	
IR Gun # B Correction Factor +.4 °C IR passed daily verification ☑ Yes ☐ No	
Temperature - **BLANK** 4.8 °C +/- .4 CF = 5.2 °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: MG 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…	

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

_____ MG 5-20-05

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

Headspace Anomaly ☑ N/A MG 5-20-05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # ESE200599

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1-8													
VOAH/ *	3													
	5ml													

* 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 MG 5-20-05

- **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: MG 5-20-05

PM Review/Date: MUC 5/23/05

BOE-C6-0104792

SEVERN TRENT STL

Analytical Report

BOE-C6-0104793

EXECUTIVE SUMMARY - Detection Highlights

E5E200399

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
EB_HA052005_0001 05/20/05 11:45 004				
Acetone	15	10	ug/L	SW846 8260B
2-Butanone	11	5.0	ug/L	SW846 8260B
MWG001_WG052005_0001 05/20/05 14:05 005				
1,1-Dichloroethene	3.7	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.5	1.0	ug/L	SW846 8260B
Trichloroethene	9.3	1.0	ug/L	SW846 8260B
MWG002_WG052005_0001 05/20/05 16:25 006				
Methylene chloride	0.64 J	1.0	ug/L	SW846 8260B
Chloroform	0.54 J	1.0	ug/L	SW846 8260B
Trichloroethene	56	1.0	ug/L	SW846 8260B
MWG002_WG052005_0002 05/20/05 16:30 007				
Methylene chloride	0.83 J	1.0	ug/L	SW846 8260B
Chloroform	0.64 J	1.0	ug/L	SW846 8260B
Trichloroethene	68	1.0	ug/L	SW846 8260B
MWC009_WG052005_0001 05/20/05 18:15 008				
1,1-Dichloroethene	1200	25	ug/L	SW846 8260B
trans-1,2-Dichloroethene	22 J	25	ug/L	SW846 8260B
1,1-Dichloroethane	8.9 J	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	28	25	ug/L	SW846 8260B
Trichloroethene	300	25	ug/L	SW846 8260B
1,1,2-Trichloroethane	8.8 J	25	ug/L	SW846 8260B
1,2-Dichloroethane	10 J	12	ug/L	SW846 8260B

METHODS SUMMARY

E5E200399

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.

SAMPLE SUMMARY

E5E200399

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HA2PP	001	TB_HA052005_0001	05/20/05	10:30
HA2PQ	002	FB_HA052005_0001	05/20/05	10:45
HA2PR	003	FB_HA052005_0002	05/20/05	11:00
HA2PT	004	EB_HA052005_0001	05/20/05	11:45
HA2PV	005	MWG001_WG052005_0001	05/20/05	14:05
HA2PW	006	MWG002_WG052005_0001	05/20/05	16:25
HA2PX	007	MWG002_WG052005_0002	05/20/05	16:30
HA2P0	008	MWC009_WG052005_0001	05/20/05	18:15

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.

Haley & Aldrich Inc.

Client Sample ID: TB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-001 **Work Order #...:** HA2PP1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 10:30 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 09:49
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

(Continued on next page)

Haley & Aldrich Inc.

Client Sample ID: TB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-001 **Work Order #...:** HA2PP1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
Toluene-d8	95	(80 - 130)

Haley & Aldrich Inc.

Client Sample ID: FB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-002 **Work Order #...:** HA2PQ1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 10:45 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 10:13
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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Haley & Aldrich Inc.

Client Sample ID: FB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-002 **Work Order #...:** HA2PQ1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	99	(65 - 135)
Toluene-d8	91	(80 - 130)

Haley & Aldrich Inc.

Client Sample ID: FB_HA052005_0002

GC/MS Volatiles

Lot-Sample #...: E5E200399-003 **Work Order #...:** HA2PR1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 11:00 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 10:36
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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Haley & Aldrich Inc.

Client Sample ID: FB_HA052005_0002

GC/MS Volatiles

Lot-Sample #...: E5E200399-003 **Work Order #...:** HA2PR1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	95	(80 - 130)

Haley & Aldrich Inc.

Client Sample ID: EB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-004 **Work Order #...:** HA2PT1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 11:45 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 11:04
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	**15**	**10**	**ug/L**	**3.0**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	**11**	**5.0**	**ug/L**	**3.0**
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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Haley & Aldrich Inc.

Client Sample ID: EB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-004 **Work Order #...:** HA2PT1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 130)
1,2-Dichloroethane-d4	107	(65 - 135)
Toluene-d8	90	(80 - 130)

Haley & Aldrich Inc.

Client Sample ID: **MWG001_WG052005_0001**

GC/MS Volatiles

Lot-Sample #...: E5E200399-005 **Work Order #...:** HA2PV1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 14:05 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 11:28
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	**3.7**	**1.0**	**ug/L**	**0.30**
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	**2.5**	**1.0**	**ug/L**	**0.30**
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**9.3**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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Haley & Aldrich Inc.

Client Sample ID: MWG001_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-005 **Work Order #...:** HA2PV1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

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

Haley & Aldrich Inc.

Client Sample ID: MWG002_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-006 **Work Order #...:** HA2PW1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 16:25 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 11:51
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	**0.64 J**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	**0.54 J**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**56**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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Haley & Aldrich Inc.

Client Sample ID: MWG002_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-006 **Work Order #...:** HA2PW1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(75 - 130)
1,2-Dichloroethane-d4	101	(65 - 135)
Toluene-d8	90	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Haley & Aldrich Inc.

Client Sample ID: MWG002_WG052005_0002

GC/MS Volatiles

Lot-Sample #...: E5E200399-007 **Work Order #...:** HA2PX1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 16:30 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 12:15
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	**0.83 J**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	**0.64 J**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**68**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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Haley & Aldrich Inc.

Client Sample ID: MWG002_WG052005_0002

GC/MS Volatiles

Lot-Sample #...: E5E200399-007 **Work Order #...:** HA2PX1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
1,2-Dichloroethane-d4	112	(65 - 135)
Toluene-d8	90	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Haley & Aldrich Inc.

Client Sample ID: MWC009_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-008 **Work Order #...:** HA2P01AA **Matrix.....:** WG
Date Sampled...: 05/20/05 18:15 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 12:38
Dilution Factor: 25
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	25	ug/L	10
Chloromethane	ND	50	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Bromomethane	ND	50	ug/L	25
Trichlorofluoromethane	ND	50	ug/L	7.5
1,1-Dichloroethene	**1200**	**25**	**ug/L**	**7.5**
Methylene chloride	ND	25	ug/L	7.5
Methyl tert-butyl ether	ND	25	ug/L	12
Carbon disulfide	ND	25	ug/L	7.5
Acetone	ND	250	ug/L	75
trans-1,2-Dichloroethene	**22 J**	**25**	**ug/L**	**7.5**
1,1-Dichloroethane	**8.9 J**	**25**	**ug/L**	**5.0**
2,2-Dichloropropane	ND	25	ug/L	7.5
cis-1,2-Dichloroethene	**28**	**25**	**ug/L**	**7.5**
Chloroform	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
2-Butanone	ND	120	ug/L	75
1,1-Dichloropropene	ND	25	ug/L	7.5
Carbon tetrachloride	ND	12	ug/L	7.5
1,2-Dibromoethane	ND	25	ug/L	7.5
Benzene	ND	25	ug/L	7.5
Trichloroethene	**300**	**25**	**ug/L**	**7.5**
Bromodichloromethane	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Toluene	ND	25	ug/L	7.5
1,1,2-Trichloroethane	**8.8 J**	**25**	**ug/L**	**7.5**
1,2-Dichloroethane	**10 J**	**12**	**ug/L**	**10**
Tetrachloroethene	ND	25	ug/L	7.5
2-Hexanone	ND	120	ug/L	75
Dibromochloromethane	ND	25	ug/L	10
Chlorobenzene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
Ethylbenzene	ND	25	ug/L	5.0
Vinyl chloride	ND	12	ug/L	7.5
Xylenes (total)	ND	25	ug/L	20
Styrene	ND	25	ug/L	7.5

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Haley & Aldrich Inc.

Client Sample ID: MWC009_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-008 **Work Order #...:** HA2P01AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	25	ug/L	7.5
Isopropylbenzene	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
1,2,3-Trichloropropane	ND	25	ug/L	10
n-Propylbenzene	ND	25	ug/L	10
Bromobenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
n-Butylbenzene	ND	25	ug/L	7.5
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
Hexachlorobutadiene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
Acrolein	ND	500	ug/L	300
Tert-amyl methyl ether	ND	50	ug/L	12
Acrylonitrile	ND	500	ug/L	250
Tert-butyl ethyl ether	ND	50	ug/L	12
t-Butanol	ND	620	ug/L	150
Iodomethane	ND	50	ug/L	25
Isopropyl ether	ND	50	ug/L	12
2-Chloroethyl vinyl ether	ND	120	ug/L	50
Tetrahydrofuran	ND	250	ug/L	50
Vinyl acetate	ND	120	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	105	(65 - 135)
Toluene-d8	92	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0104812

SEVERN TRENT STL

QA/QC

BOE-C6-0104813

QC DATA ASSOCIATION SUMMARY

E5E200399

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WG	SW846 8260B		5143623	5143394
002	WG	SW846 8260B		5143623	5143394
003	WG	SW846 8260B		5143623	5143394
004	WG	SW846 8260B		5143623	5143394
005	WG	SW846 8260B		5143623	5143394
006	WG	SW846 8260B		5143623	5143394
007	WG	SW846 8260B		5143623	5143394
008	WG	SW846 8260B		5143623	5143394

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5E200399
MB Lot-Sample #: E5E230000-623

Analysis Date..: 05/23/05
Dilution Factor: 1

Work Order #...: HA42K1AA

Prep Date.....: 05/23/05
Prep Batch #...: 5143623

Analyst ID.....: 015590

Matrix.....: WATER

Analysis Time..: 09:18
Instrument ID..: MSR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Tert-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Tert-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B
t-Butanol	ND	25	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isopropyl ether	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	91	(80 - 130)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5E230000-623
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 08:32
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	171 a	(40 - 160)	SW846 8260B
Chloromethane	160 a	(60 - 140)	SW846 8260B
Chloroethane	129	(60 - 140)	SW846 8260B
Bromomethane	182 a	(60 - 140)	SW846 8260B
Trichlorofluoromethane	126	(70 - 130)	SW846 8260B
1,1-Dichloroethene	**131**	**(65 - 135)**	**SW846 8260B**
Methylene chloride	107	(70 - 130)	SW846 8260B
Methyl tert-butyl ether	112	(70 - 130)	SW846 8260B
Carbon disulfide	115	(70 - 130)	SW846 8260B
Acetone	146 a	(60 - 140)	SW846 8260B
trans-1,2-Dichloroethene	110	(70 - 130)	SW846 8260B
1,1-Dichloroethane	116	(70 - 130)	SW846 8260B
Dibromomethane	108	(70 - 130)	SW846 8260B
2,2-Dichloropropane	106	(70 - 130)	SW846 8260B
cis-1,2-Dichloroethene	96	(70 - 130)	SW846 8260B
Chloroform	112	(70 - 130)	SW846 8260B
Bromochloromethane	108	(70 - 130)	SW846 8260B
1,1,1-Trichloroethane	116	(70 - 130)	SW846 8260B
2-Butanone	129	(60 - 140)	SW846 8260B
1,1-Dichloropropene	113	(70 - 130)	SW846 8260B
1,2-Dichloropropane	104	(70 - 130)	SW846 8260B
Carbon tetrachloride	120	(70 - 130)	SW846 8260B
1,3-Dichloropropane	93	(70 - 130)	SW846 8260B
1,2-Dibromoethane	87	(70 - 130)	SW846 8260B
cis-1,3-Dichloropropene	115	(70 - 130)	SW846 8260B
Benzene	**106**	**(75 - 125)**	**SW846 8260B**
trans-1,3-Dichloropropene	88	(70 - 130)	SW846 8260B
Trichloroethene	**105**	**(75 - 135)**	**SW846 8260B**
Bromodichloromethane	117	(70 - 130)	SW846 8260B
4-Methyl-2-pentanone	103	(60 - 140)	SW846 8260B
Naphthalene	86	(60 - 140)	SW846 8260B
Toluene	**93**	**(75 - 125)**	**SW846 8260B**
1,1,2-Trichloroethane	92	(70 - 130)	SW846 8260B

(Continued on next page)

BOE-C6-0104817

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5E230000-623

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2-Dichloroethane	113	(70 - 130)	SW846 8260B
Tetrachloroethene	93	(70 - 130)	SW846 8260B
2-Hexanone	99	(60 - 140)	SW846 8260B
Dibromochloromethane	99	(70 - 130)	SW846 8260B
Chlorobenzene	**89**	**(75 - 125)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	94	(70 - 130)	SW846 8260B
Ethylbenzene	94	(70 - 130)	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	125	(60 - 140)	SW846 8260B
m-Xylene & p-Xylene	92	(70 - 130)	SW846 8260B
Vinyl chloride	138	(60 - 140)	SW846 8260B
o-Xylene	93	(70 - 130)	SW846 8260B
Styrene	93	(70 - 130)	SW846 8260B
Bromoform	96	(70 - 130)	SW846 8260B
Isopropylbenzene	87	(70 - 130)	SW846 8260B
1,1,2,2-Tetrachloroethane	82	(70 - 130)	SW846 8260B
1,2,3-Trichloropropane	85	(70 - 130)	SW846 8260B
n-Propylbenzene	92	(70 - 130)	SW846 8260B
Bromobenzene	89	(70 - 130)	SW846 8260B
1,3,5-Trimethylbenzene	93	(70 - 130)	SW846 8260B
2-Chlorotoluene	90	(70 - 130)	SW846 8260B
4-Chlorotoluene	92	(70 - 130)	SW846 8260B
tert-Butylbenzene	94	(70 - 130)	SW846 8260B
1,2,4-Trimethylbenzene	91	(70 - 130)	SW846 8260B
sec-Butylbenzene	94	(70 - 130)	SW846 8260B
p-Isopropyltoluene	88	(70 - 130)	SW846 8260B
1,3-Dichlorobenzene	83	(70 - 130)	SW846 8260B
1,4-Dichlorobenzene	82	(70 - 130)	SW846 8260B
n-Butylbenzene	92	(70 - 130)	SW846 8260B
1,2-Dichlorobenzene	82	(70 - 130)	SW846 8260B
1,2-Dibromo-3-chloro-propane	88	(60 - 140)	SW846 8260B
1,2,4-Trichloro-benzene	86	(70 - 130)	SW846 8260B
Hexachlorobutadiene	90	(70 - 130)	SW846 8260B
1,2,3-Trichlorobenzene	83	(70 - 130)	SW846 8260B
Tert-amyl methyl ether	103	(70 - 130)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5E230000-623

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Tert-butyl ethyl ether	105	(70 - 130)	SW846 8260B
t-Butanol	248 a	(40 - 150)	SW846 8260B
Isopropyl ether	117	(70 - 130)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	89	(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.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5E230000-623
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 08:32
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Dichlorodifluoromethane	10.0	17.1 a	ug/L	171	SW846 8260B
Chloromethane	10.0	16.0 a	ug/L	160	SW846 8260B
Chloroethane	10.0	12.9	ug/L	129	SW846 8260B
Bromomethane	10.0	18.2 a	ug/L	182	SW846 8260B
Trichlorofluoromethane	10.0	12.6	ug/L	126	SW846 8260B
1,1-Dichloroethene	**10.0**	**13.1**	**ug/L**	**131**	**SW846 8260B**
Methylene chloride	10.0	10.7	ug/L	107	SW846 8260B
Methyl tert-butyl ether	10.0	11.2	ug/L	112	SW846 8260B
Carbon disulfide	50.0	57.6	ug/L	115	SW846 8260B
Acetone	50.0	73.1 a	ug/L	146	SW846 8260B
trans-1,2-Dichloroethene	10.0	11.0	ug/L	110	SW846 8260B
1,1-Dichloroethane	10.0	11.6	ug/L	116	SW846 8260B
Dibromomethane	10.0	10.8	ug/L	108	SW846 8260B
2,2-Dichloropropane	10.0	10.6	ug/L	106	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.55	ug/L	96	SW846 8260B
Chloroform	10.0	11.2	ug/L	112	SW846 8260B
Bromochloromethane	10.0	10.8	ug/L	108	SW846 8260B
1,1,1-Trichloroethane	10.0	11.6	ug/L	116	SW846 8260B
2-Butanone	50.0	64.4	ug/L	129	SW846 8260B
1,1-Dichloropropene	10.0	11.3	ug/L	113	SW846 8260B
1,2-Dichloropropane	10.0	10.4	ug/L	104	SW846 8260B
Carbon tetrachloride	10.0	12.0	ug/L	120	SW846 8260B
1,3-Dichloropropane	10.0	9.31	ug/L	93	SW846 8260B
1,2-Dibromoethane	10.0	8.73	ug/L	87	SW846 8260B
cis-1,3-Dichloropropene	10.0	11.5	ug/L	115	SW846 8260B
Benzene	**10.0**	**10.6**	**ug/L**	**106**	**SW846 8260B**
trans-1,3-Dichloropropene	10.0	8.85	ug/L	88	SW846 8260B
Trichloroethene	**10.0**	**10.5**	**ug/L**	**105**	**SW846 8260B**
Bromodichloromethane	10.0	11.7	ug/L	117	SW846 8260B
4-Methyl-2-pentanone	50.0	51.3	ug/L	103	SW846 8260B
Naphthalene	10.0	8.65	ug/L	86	SW846 8260B
Toluene	**10.0**	**9.32**	**ug/L**	**93**	**SW846 8260B**
1,1,2-Trichloroethane	10.0	9.18	ug/L	92	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5E230000-623

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,2-Dichloroethane	10.0	11.3	ug/L	113	SW846 8260B
Tetrachloroethene	10.0	9.30	ug/L	93	SW846 8260B
2-Hexanone	50.0	49.5	ug/L	99	SW846 8260B
Dibromochloromethane	10.0	9.88	ug/L	99	SW846 8260B
Chlorobenzene	**10.0**	**8.92**	**ug/L**	**89**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	10.0	9.40	ug/L	94	SW846 8260B
Ethylbenzene	10.0	9.42	ug/L	94	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	10.0	12.5	ug/L	125	SW846 8260B
m-Xylene & p-Xylene	20.0	18.4	ug/L	92	SW846 8260B
Vinyl chloride	10.0	13.8	ug/L	138	SW846 8260B
o-Xylene	10.0	9.34	ug/L	93	SW846 8260B
Styrene	10.0	9.34	ug/L	93	SW846 8260B
Bromoform	10.0	9.62	ug/L	96	SW846 8260B
Isopropylbenzene	10.0	8.71	ug/L	87	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	8.22	ug/L	82	SW846 8260B
1,2,3-Trichloropropane	10.0	8.46	ug/L	85	SW846 8260B
n-Propylbenzene	10.0	9.24	ug/L	92	SW846 8260B
Bromobenzene	10.0	8.89	ug/L	89	SW846 8260B
1,3,5-Trimethylbenzene	10.0	9.27	ug/L	93	SW846 8260B
2-Chlorotoluene	10.0	9.05	ug/L	90	SW846 8260B
4-Chlorotoluene	10.0	9.24	ug/L	92	SW846 8260B
tert-Butylbenzene	10.0	9.36	ug/L	94	SW846 8260B
1,2,4-Trimethylbenzene	10.0	9.11	ug/L	91	SW846 8260B
sec-Butylbenzene	10.0	9.44	ug/L	94	SW846 8260B
p-Isopropyltoluene	10.0	8.85	ug/L	88	SW846 8260B
1,3-Dichlorobenzene	10.0	8.30	ug/L	83	SW846 8260B
1,4-Dichlorobenzene	10.0	8.24	ug/L	82	SW846 8260B
n-Butylbenzene	10.0	9.15	ug/L	92	SW846 8260B
1,2-Dichlorobenzene	10.0	8.17	ug/L	82	SW846 8260B
1,2-Dibromo-3-chloro-propane	10.0	8.77	ug/L	88	SW846 8260B
1,2,4-Trichloro-benzene	10.0	8.55	ug/L	86	SW846 8260B
Hexachlorobutadiene	10.0	8.96	ug/L	90	SW846 8260B
1,2,3-Trichlorobenzene	10.0	8.33	ug/L	83	SW846 8260B
Tert-amyl methyl ether	10.0	10.3	ug/L	103	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5E230000-623

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Tert-butyl ethyl ether	10.0	10.5	ug/L	105	SW846 8260B
t-Butanol	50.0	124 a	ug/L	248	SW846 8260B
Isopropyl ether	10.0	11.7	ug/L	117	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	89	(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 #...: E5E200399 **Work Order #...:** HA2P01AC-MS **Matrix.....:** WG
MS Lot-Sample #: E5E200399-008 HA2P01AD-MSD
Date Sampled...: 05/20/05 18:15 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 15:44
Dilution Factor: 25 **Analyst ID.....:** 015590 **Instrument ID..:** MSR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**55 a**	**(65 - 135)**			**SW846 8260B**
	34 a	**(65 - 135)**	**4.2**	**(0-25)**	**SW846 8260B**
Benzene	**108**	**(75 - 125)**			**SW846 8260B**
	107	**(75 - 125)**	**0.74**	**(0-25)**	**SW846 8260B**
Trichloroethene	**91**	**(75 - 135)**			**SW846 8260B**
	90	**(75 - 135)**	**0.81**	**(0-25)**	**SW846 8260B**
Toluene	**98**	**(75 - 125)**			**SW846 8260B**
	98	**(75 - 125)**	**0.49**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**94**	**(75 - 125)**			**SW846 8260B**
	96	**(75 - 125)**	**2.2**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
	98	(75 - 130)
1,2-Dichloroethane-d4	105	(65 - 135)
	101	(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.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E5E200399	**Work Order #...:**	HA2P01AC-MS	**Matrix.....:**	WG
MS Lot-Sample #:	E5E200399-008		HA2P01AD-MSD		
Date Sampled...:	05/20/05 18:15	**Date Received..:**	05/20/05 21:05	**MS Run #.....:**	5143394
Prep Date.....:	05/23/05	**Analysis Date..:**	05/23/05		
Prep Batch #...:	5143623	**Analysis Time..:**	15:44		
Dilution Factor:	25	**Analyst ID.....:**	015590	**Instrument ID..:**	MSR

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**1200**	**250**	**1300**	**ug/L**	**55 a**		**SW846 8260B**
	1200	**250**	**1250**	**ug/L**	**34 a**	**4.2**	**SW846 8260B**
Benzene	**ND**	**250**	**269**	**ug/L**	**108**		**SW846 8260B**
	ND	**250**	**267**	**ug/L**	**107**	**0.74**	**SW846 8260B**
Trichloroethene	**300**	**250**	**532**	**ug/L**	**91**		**SW846 8260B**
	300	**250**	**528**	**ug/L**	**90**	**0.81**	**SW846 8260B**
Toluene	**ND**	**250**	**244**	**ug/L**	**98**		**SW846 8260B**
	ND	**250**	**245**	**ug/L**	**98**	**0.49**	**SW846 8260B**
Chlorobenzene	**ND**	**250**	**234**	**ug/L**	**94**		**SW846 8260B**
	ND	**250**	**239**	**ug/L**	**96**	**2.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
	98	(75 - 130)
1,2-Dichloroethane-d4	105	(65 - 135)
	101	(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.

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

September 29, 2005

STL LOT NUMBER: E5I200157
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

Mehmet Pehlivan
Tait Environmental
701 Park Center Dr
Santa Ana, CA 92705

Dear Mr. Pehlivan,

This report contains the analytical results for the 12 samples received under chain of custody by STL Los Angeles on September 20, 2005. These samples are associated with your Boeing former C6 facility Torrance, 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

000046

Page 1 of _____ total pages in this report.

LOT NUMBER E5I200157

Nonconformance 05-14009

Affected Samples:
E5I200157 (2): DB_TAIT091905_0001
E5I200157 (3): WCC_6S_WG091905_0001
E5I200157 (8): FB_TAIT091905_0001
E5I200157 (10): MWG002_WG091905_0001

Affected Methods:
8260B

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

F6J311268

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

ESI 200157

TL-4124 (0901)

Client: TAIT ENVIRONMENTAL MGMT.	Project Manager: MEHMET PEHLIVAN	Date: 9/19/05	Chain of Custody Number: 216983
Address: 701 N. PARKCENTER DR.	Telephone Number (Area Code)/Fax Number: (714) 560-8200 / 560-8235	Lab Number	Page 1 of 1
City: SANTA ANA; State: CA; Zip Code: 92705	Site Contact: N. CHANDRAN	Lab Contact: D. SUZUKI	
Project Name and Location (State): SEPT. 2005 SAMPLING BRC C-6 TORRANCE	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

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

Special Instructions/ Conditions of Receipt

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	8260B
TB-TAIT091905_0001	9/19/05	—		X						3			X
DB-TAIT091905_0001	↓	900		X						3			X
NCC-6S-WG091905-0001		1040		X						4			X
NCC-3S-WG091905-0001		1200		X						4			X
EB-TAIT091905_0001		1225		X						3			X
MW-14-WG091905-0001		1330		X						4			X
MWB013-WG091905-0001		1435		X						4			X
FB-TAIT091905_0001		1200		X						3			X
MWG001-WG091905-0001		1230		X						4			X
MWG002-WG091905-0001		1327		X						4			X
MWC007-WG091905-0001		1510		X						4			X
MWC007-WG091905-0002	↓	1510		X						4			X

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] 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 [X] Other NORMAL

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Mutya Chandra	9/19/05	1615	1. Received By: [signature]	9/19/05	1615
2. Relinquished By: [signature]	9/19/05	5:00 pm	2. Received By: [signature]	9/19/05	17:00
3. Relinquished By			3. Received By		

Comments

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

4

BOE-C6-0104827

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 9/19/05

LIMS Lot #: ESI 200157 Quote #: 40334

Client Name: Tait environmental management Project: Mehmet pehlivan

Received by: CA Date/Time Received: 9/19/05 17:00

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

****

	Initial / Date
Custody Seal Status Cooler: ☐ Intact ☐ Broken ☒ None	CA 9/19/05
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 +4 °C IR passed daily verification ☒ Yes ☐ No	
Temperature - BLANK 2.5 °C +/- 4 CF = 2.1 °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: CA 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 9/19/05

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

_____

_____

_____

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

Headspace Anomaly ☐ N/A CA 9/19/05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
002 CA	1	☒ > 6mm			☐ > 6mm
~~004~~ 3 9/20/05	1	☒ > 6mm			☐ > 6mm
008	1	☒ > 6mm			☐ > 6mm
010	1	☒ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # ESI 2005 1

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1	2	3	4	5	6	7	8	9	10	11	12		
VOAH/ *	3	3	4	4	3	4	4	3	4	4	4	4		

* 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 9/19/05

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking
  - ☐ Other:
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - ☐ Cooler Temp(s)
  - ☐ Temperature Blank(s)
- **CONTAINERS**
  - ☐ Leaking
  - ☐ Broken
  - ☐ Extra
  - ☐ Without Labels
  - ☐ Other:
  - ☒ Voa Vials with Bubbles > 6mm
- **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
- **CUSTODY SEALS (COOLER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **CONTAINER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by Client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ Other ☐ COC not received – notify PM
- **LABELS**
  - ☐ Not the same ID/info as in COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
  - ☐ Torn
  - ☐ 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 Vargas 9-20-05

PM Review/Date: MVC 9/20/05

SEVERN TRENT STL

Analytical Report

BOE-C6-0104830

EXECUTIVE SUMMARY - Detection Highlights

ESI200157

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TB_TAIT091905_0001 09/19/05 001				
Acetone	5.1 J	10	ug/L	SW846 8260B
DB_TAIT091905_0001 09/19/05 09:00 002				
Methylene chloride	0.31 J	1.0	ug/L	SW846 8260B
Acetone	3.6 J	10	ug/L	SW846 8260B
WCC_6S_WG091905_0001 09/19/05 10:40 003				
1,1-Dichloroethene	11000	250	ug/L	SW846 8260B
trans-1,2-Dichloroethene	230 J	250	ug/L	SW846 8260B
1,1-Dichloroethane	250	250	ug/L	SW846 8260B
cis-1,2-Dichloroethene	4200	250	ug/L	SW846 8260B
Trichloroethene	1300	250	ug/L	SW846 8260B
Toluene	2800	250	ug/L	SW846 8260B
WCC_3S_WG091905_0001 09/19/05 12:00 004				
1,1-Dichloroethene	8600	330	ug/L	SW846 8260B
trans-1,2-Dichloroethene	230 J	330	ug/L	SW846 8260B
1,1-Dichloroethane	190 J	330	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2300	330	ug/L	SW846 8260B
1,1,1-Trichloroethane	110 J	330	ug/L	SW846 8260B
Benzene	110 J	330	ug/L	SW846 8260B
Trichloroethene	820	330	ug/L	SW846 8260B
Toluene	22000	330	ug/L	SW846 8260B
Vinyl chloride	810	170	ug/L	SW846 8260B
EB_TAIT091905_0001 09/19/05 12:25 005				
1,2-Dichlorobenzene	0.86 J	1.0	ug/L	SW846 8260B
TMW_14_WG091905_0001 09/19/05 13:30 006				
cis-1,2-Dichloroethene	0.39 J	1.0	ug/L	SW846 8260B
Chloroform	1.6	1.0	ug/L	SW846 8260B
Carbon tetrachloride	1.5	0.50	ug/L	SW846 8260B
Trichloroethene	7.3	1.0	ug/L	SW846 8260B
Toluene	0.49 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	1.7	1.0	ug/L	SW846 8260B

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EXECUTIVE SUMMARY - Detection Highlights

E5I200157

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MWB013_WG091905_0001 09/19/05 14:35 007				
1,1-Dichloroethene	0.63 J	1.0	ug/L	SW846 8260B
Chloroform	0.48 J	1.0	ug/L	SW846 8260B
Trichloroethene	5.7	1.0	ug/L	SW846 8260B
Bromodichloromethane	0.37 J	1.0	ug/L	SW846 8260B
Toluene	0.48 J	1.0	ug/L	SW846 8260B
FB_TAIT091905_0001 09/19/05 12:00 008				
Methylene chloride	0.31 J	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	0.48 J	1.0	ug/L	SW846 8260B
MWG001_WG091905_0001 09/19/05 12:30 009				
1,1-Dichloroethene	2.3	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.0	1.0	ug/L	SW846 8260B
Trichloroethene	5.5	1.0	ug/L	SW846 8260B
MWG002_WG091905_0001 09/19/05 12:37 010				
cis-1,2-Dichloroethene	1.2 J	2.0	ug/L	SW846 8260B
Trichloroethene	120	2.0	ug/L	SW846 8260B
MWC007_WG091905_0001 09/19/05 15:10 011				
1,1-Dichloroethene	2.1	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.88 J	1.0	ug/L	SW846 8260B
Trichloroethene	3.2	1.0	ug/L	SW846 8260B
MWC007_WG091905_0002 09/19/05 15:10 012				
1,1-Dichloroethene	2.1	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.85 J	1.0	ug/L	SW846 8260B
Trichloroethene	3.2	1.0	ug/L	SW846 8260B

METHODS SUMMARY

E5I200157

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.

F6J311268

SAMPLE SUMMARY

E5I200157

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HKXWV	001	TB_TAIT091905_0001	09/19/05	
HKXW7	002	DB_TAIT091905_0001	09/19/05	09:00
HKXW8	003	WCC_6S_WG091905_0001	09/19/05	10:40
HKXXH	004	WCC_3S_WG091905_0001	09/19/05	12:00
HKXXK	005	EB_TAIT091905_0001	09/19/05	12:25
HKXXL	006	TMW_14_WG091905_0001	09/19/05	13:30
HKXXR	007	MWB013_WG091905_0001	09/19/05	14:35
HKXXV	008	FB_TAIT091905_0001	09/19/05	12:00
HKXXW	009	MWG001_WG091905_0001	09/19/05	12:30
HKXXX	010	MWG002_WG091905_0001	09/19/05	12:37
HKXX0	011	MWC007_WG091905_0001	09/19/05	15:10
HKXX2	012	MWC007_WG091905_0002	09/19/05	15:10

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.

Tait Environmental

Client Sample ID: TB_TAIT091905_0001

GC/MS Volatiles

Lot-Sample #...:	E5I200157-001	**Work Order #...:**	HKXWV1AA	**Matrix.....:**	W
Date Sampled...:	09/19/05	**Date Received..:**	09/19/05 17:00		
Prep Date.....:	09/22/05	**Analysis Date..:**	09/22/05		
Prep Batch #...:	5265650	**Method.....:**	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	**5.1 J**	**10**	**ug/L**
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Tait Environmental

Client Sample ID: TB_TAIT091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-001 **Work Order #...:** HKXWV1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	88	(65 - 135)
Toluene-d8	96	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: DB_TAIT091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-002 Work Order #...: HKXW71AA Matrix.....: W
Date Sampled...: 09/19/05 09:00 Date Received..: 09/19/05 17:00
Prep Date.....: 09/22/05 Analysis Date..: 09/22/05
Prep Batch #...: 5265650 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Methylene chloride	**0.31 J**	**1.0**	**ug/L**
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	**3.6 J**	**10**	**ug/L**
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Tait Environmental

Client Sample ID: DB_TAIT091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-002 **Work Order #...:** HKXW71AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	91	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: WCC_6S_WG091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-003 Work Order #...: HKXW81AA Matrix.....: W
Date Sampled...: 09/19/05 10:40 Date Received..: 09/19/05 17:00
Prep Date.....: 09/22/05 Analysis Date..: 09/22/05
Prep Batch #...: 5265650 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	250	ug/L
Chloromethane	ND	500	ug/L
Chloroethane	ND	500	ug/L
Bromomethane	ND	500	ug/L
Trichlorofluoromethane	ND	500	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	250	ug/L
1,1-Dichloroethene	**11000**	**250**	**ug/L**
Methylene chloride	ND	250	ug/L
Methyl tert-butyl ether	ND	250	ug/L
Carbon disulfide	ND	250	ug/L
Acetone	ND	2500	ug/L
trans-1,2-Dichloroethene	**230 J**	**250**	**ug/L**
1,1-Dichloroethane	**250**	**250**	**ug/L**
2,2-Dichloropropane	ND	250	ug/L
cis-1,2-Dichloroethene	**4200**	**250**	**ug/L**
Chloroform	ND	250	ug/L
Bromochloromethane	ND	250	ug/L
1,1,1-Trichloroethane	ND	250	ug/L
2-Butanone	ND	1200	ug/L
1,1-Dichloropropene	ND	250	ug/L
Carbon tetrachloride	ND	120	ug/L
1,2-Dibromoethane	ND	250	ug/L
Benzene	ND	250	ug/L
Trichloroethene	**1300**	**250**	**ug/L**
Bromodichloromethane	ND	250	ug/L
4-Methyl-2-pentanone	ND	1200	ug/L
Toluene	**2800**	**250**	**ug/L**
1,1,2-Trichloroethane	ND	250	ug/L
1,2-Dichloroethane	ND	120	ug/L
Tetrachloroethene	ND	250	ug/L
2-Hexanone	ND	1200	ug/L
Dibromochloromethane	ND	250	ug/L
Chlorobenzene	ND	250	ug/L
1,1,1,2-Tetrachloroethane	ND	250	ug/L
Ethylbenzene	ND	250	ug/L
Vinyl chloride	ND	120	ug/L
Xylenes (total)	ND	250	ug/L
Styrene	ND	250	ug/L
Bromoform	ND	250	ug/L

(Continued on next page)

Tait Environmental

Client Sample ID: WCC_6S_WG091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-003 **Work Order #...:** HKXW81AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	250	ug/L
1,1,2,2-Tetrachloroethane	ND	250	ug/L
1,2,3-Trichloropropane	ND	250	ug/L
n-Propylbenzene	ND	250	ug/L
Bromobenzene	ND	250	ug/L
1,3,5-Trimethylbenzene	ND	250	ug/L
2-Chlorotoluene	ND	250	ug/L
4-Chlorotoluene	ND	250	ug/L
tert-Butylbenzene	ND	250	ug/L
1,2,4-Trimethylbenzene	ND	250	ug/L
sec-Butylbenzene	ND	250	ug/L
p-Isopropyltoluene	ND	250	ug/L
1,3-Dichlorobenzene	ND	250	ug/L
1,4-Dichlorobenzene	ND	250	ug/L
n-Butylbenzene	ND	250	ug/L
1,2-Dichlorobenzene	ND	250	ug/L
1,2-Dibromo-3-chloro-propane	ND	500	ug/L
1,2,4-Trichloro-benzene	ND	250	ug/L
Hexachlorobutadiene	ND	250	ug/L
1,2,3-Trichlorobenzene	ND	250	ug/L
Acrolein	ND	5000	ug/L
Acrylonitrile	ND	5000	ug/L
Iodomethane	ND	500	ug/L
2-Chloroethyl vinyl ether	ND	1200	ug/L
Tetrahydrofuran	ND	2500	ug/L
Vinyl acetate	ND	1200	ug/L

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

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: WCC_3S_WG091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-004 **Work Order #...:** HKXXH1AA **Matrix.....:** W
Date Sampled...: 09/19/05 12:00 **Date Received..:** 09/19/05 17:00
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5265650 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	330	ug/L
Chloromethane	ND	670	ug/L
Chloroethane	ND	670	ug/L
Bromomethane	ND	670	ug/L
Trichlorofluoromethane	ND	670	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	330	ug/L
1,1-Dichloroethene	**8600**	**330**	**ug/L**
Methylene chloride	ND	330	ug/L
Methyl tert-butyl ether	ND	330	ug/L
Carbon disulfide	ND	330	ug/L
Acetone	ND	3300	ug/L
trans-1,2-Dichloroethene	**230 J**	**330**	**ug/L**
1,1-Dichloroethane	**190 J**	**330**	**ug/L**
2,2-Dichloropropane	ND	330	ug/L
cis-1,2-Dichloroethene	**2300**	**330**	**ug/L**
Chloroform	ND	330	ug/L
Bromochloromethane	ND	330	ug/L
1,1,1-Trichloroethane	**110 J**	**330**	**ug/L**
2-Butanone	ND	1700	ug/L
1,1-Dichloropropene	ND	330	ug/L
Carbon tetrachloride	ND	170	ug/L
1,2-Dibromoethane	ND	330	ug/L
Benzene	**110 J**	**330**	**ug/L**
Trichloroethene	**820**	**330**	**ug/L**
Bromodichloromethane	ND	330	ug/L
4-Methyl-2-pentanone	ND	1700	ug/L
Toluene	**22000**	**330**	**ug/L**
1,1,2-Trichloroethane	ND	330	ug/L
1,2-Dichloroethane	ND	170	ug/L
Tetrachloroethene	ND	330	ug/L
2-Hexanone	ND	1700	ug/L
Dibromochloromethane	ND	330	ug/L
Chlorobenzene	ND	330	ug/L
1,1,1,2-Tetrachloroethane	ND	330	ug/L
Ethylbenzene	ND	330	ug/L
Vinyl chloride	**810**	**170**	**ug/L**
Xylenes (total)	ND	330	ug/L
Styrene	ND	330	ug/L
Bromoform	ND	330	ug/L

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BOE-C6-0104841

Tait Environmental

Client Sample ID: WCC_3S_WG091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-004 **Work Order #...:** HKXXH1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	330	ug/L
1,1,2,2-Tetrachloroethane	ND	330	ug/L
1,2,3-Trichloropropane	ND	330	ug/L
n-Propylbenzene	ND	330	ug/L
Bromobenzene	ND	330	ug/L
1,3,5-Trimethylbenzene	ND	330	ug/L
2-Chlorotoluene	ND	330	ug/L
4-Chlorotoluene	ND	330	ug/L
tert-Butylbenzene	ND	330	ug/L
1,2,4-Trimethylbenzene	ND	330	ug/L
sec-Butylbenzene	ND	330	ug/L
p-Isopropyltoluene	ND	330	ug/L
1,3-Dichlorobenzene	ND	330	ug/L
1,4-Dichlorobenzene	ND	330	ug/L
n-Butylbenzene	ND	330	ug/L
1,2-Dichlorobenzene	ND	330	ug/L
1,2-Dibromo-3-chloro-propane	ND	670	ug/L
1,2,4-Trichloro-benzene	ND	330	ug/L
Hexachlorobutadiene	ND	330	ug/L
1,2,3-Trichlorobenzene	ND	330	ug/L
Acrolein	ND	6700	ug/L
Acrylonitrile	ND	6700	ug/L
Iodomethane	ND	670	ug/L
2-Chloroethyl vinyl ether	ND	1700	ug/L
Tetrahydrofuran	ND	3300	ug/L
Vinyl acetate	ND	1700	ug/L

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

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: EB_TAIT091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-005 **Work Order #...:** HKXXK1AA **Matrix.....:** W
Date Sampled...: 09/19/05 12:25 **Date Received..:** 09/19/05 17:00
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5265650 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Tait Environmental

Client Sample ID: EB_TAIT091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-005 **Work Order #...:** HKXXK1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	**0.86 J**	**1.0**	**ug/L**
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	93	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: TMW_14_WG091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-006 **Work Order #...:** HKXXL1AA **Matrix.....:** W
Date Sampled...: 09/19/05 13:30 **Date Received..:** 09/19/05 17:00
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5265650 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	**0.39 J**	**1.0**	**ug/L**
Chloroform	**1.6**	**1.0**	**ug/L**
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	**1.5**	**0.50**	**ug/L**
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	**7.3**	**1.0**	**ug/L**
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	**0.49 J**	**1.0**	**ug/L**
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	**1.7**	**1.0**	**ug/L**
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Tait Environmental

Client Sample ID: TMW_14_WG091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-006 **Work Order #...:** HKXXL1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	95	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: MWB013_WG091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-007 **Work Order #...:** HKXXR1AA **Matrix.....:** W
Date Sampled...: 09/19/05 14:35 **Date Received..:** 09/19/05 17:00
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5265650 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	**0.63 J**	**1.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
Chloroform	**0.48 J**	**1.0**	**ug/L**
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	**5.7**	**1.0**	**ug/L**
Bromodichloromethane	**0.37 J**	**1.0**	**ug/L**
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	**0.48 J**	**1.0**	**ug/L**
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Tait Environmental

Client Sample ID: MWB013_WG091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-007 **Work Order #...:** HKXXR1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

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

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: FB_TAIT091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-008 **Work Order #...:** HKXXV1AA **Matrix.....:** W
Date Sampled...: 09/19/05 12:00 **Date Received..:** 09/19/05 17:00
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5265650 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Methylene chloride	**0.31 J**	**1.0**	**ug/L**
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Tait Environmental

Client Sample ID: FB_TAIT091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-008 **Work Order #...:** HKXXV1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	**0.48 J**	**1.0**	**ug/L**
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

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

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: MWG001_WG091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-009 **Work Order #...:** HKXXW1AA **Matrix.....:** W
Date Sampled...: 09/19/05 12:30 **Date Received..:** 09/19/05 17:00
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5265650 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	**2.3**	**1.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	**2.0**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	**5.5**	**1.0**	**ug/L**
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

(Continued on next page)

Tait Environmental

Client Sample ID: MWG001_WG091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-009 **Work Order #...:** HKXXW1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	96	(65 - 135)
Toluene-d8	95	(80 - 130)

Tait Environmental

Client Sample ID: MWG002_WG091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-010 **Work Order #...:** HKXXX1AA **Matrix.....:** W
Date Sampled...: 09/19/05 12:37 **Date Received..:** 09/19/05 17:00
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5265650 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	2.0	ug/L
Chloromethane	ND	4.0	ug/L
Chloroethane	ND	4.0	ug/L
Bromomethane	ND	4.0	ug/L
Trichlorofluoromethane	ND	4.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	2.0	ug/L
1,1-Dichloroethene	ND	2.0	ug/L
Methylene chloride	ND	2.0	ug/L
Methyl tert-butyl ether	ND	2.0	ug/L
Carbon disulfide	ND	2.0	ug/L
Acetone	ND	20	ug/L
trans-1,2-Dichloroethene	ND	2.0	ug/L
1,1-Dichloroethane	ND	2.0	ug/L
2,2-Dichloropropane	ND	2.0	ug/L
cis-1,2-Dichloroethene	**1.2 J**	**2.0**	**ug/L**
Chloroform	ND	2.0	ug/L
Bromochloromethane	ND	2.0	ug/L
1,1,1-Trichloroethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
1,1-Dichloropropene	ND	2.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
1,2-Dibromoethane	ND	2.0	ug/L
Benzene	ND	2.0	ug/L
Trichloroethene	**120**	**2.0**	**ug/L**
Bromodichloromethane	ND	2.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
Toluene	ND	2.0	ug/L
1,1,2-Trichloroethane	ND	2.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	2.0	ug/L
2-Hexanone	ND	10	ug/L
Dibromochloromethane	ND	2.0	ug/L
Chlorobenzene	ND	2.0	ug/L
1,1,1,2-Tetrachloroethane	ND	2.0	ug/L
Ethylbenzene	ND	2.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L
Styrene	ND	2.0	ug/L
Bromoform	ND	2.0	ug/L

(Continued on next page)

Tait Environmental

Client Sample ID: MWG002_WG091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-010 **Work Order #...:** HKXXX1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	2.0	ug/L
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L
1,2,3-Trichloropropane	ND	2.0	ug/L
n-Propylbenzene	ND	2.0	ug/L
Bromobenzene	ND	2.0	ug/L
1,3,5-Trimethylbenzene	ND	2.0	ug/L
2-Chlorotoluene	ND	2.0	ug/L
4-Chlorotoluene	ND	2.0	ug/L
tert-Butylbenzene	ND	2.0	ug/L
1,2,4-Trimethylbenzene	ND	2.0	ug/L
sec-Butylbenzene	ND	2.0	ug/L
p-Isopropyltoluene	ND	2.0	ug/L
1,3-Dichlorobenzene	ND	2.0	ug/L
1,4-Dichlorobenzene	ND	2.0	ug/L
n-Butylbenzene	ND	2.0	ug/L
1,2-Dichlorobenzene	ND	2.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	4.0	ug/L
1,2,4-Trichloro-benzene	ND	2.0	ug/L
Hexachlorobutadiene	ND	2.0	ug/L
1,2,3-Trichlorobenzene	ND	2.0	ug/L
Acrolein	ND	40	ug/L
Acrylonitrile	ND	40	ug/L
Iodomethane	ND	4.0	ug/L
2-Chloroethyl vinyl ether	ND	10	ug/L
Tetrahydrofuran	ND	20	ug/L
Vinyl acetate	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	93	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: MWC007_WG091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-011 **Work Order #...:** HKXX01AA **Matrix.....:** W
Date Sampled...: 09/19/05 15:10 **Date Received..:** 09/19/05 17:00
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5265650 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	**2.1**	**1.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	**0.88 J**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	**3.2**	**1.0**	**ug/L**
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Tait Environmental

Client Sample ID: MWC007_WG091905_0001

GC/MS Volatiles

Lot-Sample #...: E5I200157-011 **Work Order #...:** HKXX01AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	93	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: MWC007_WG091905_0002

GC/MS Volatiles

Lot-Sample #...: E5I200157-012 **Work Order #...:** HKXX21AA **Matrix.....:** W
Date Sampled...: 09/19/05 15:10 **Date Received..:** 09/19/05 17:00
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5265650 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	**2.1**	**1.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	**0.85 J**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	**3.2**	**1.0**	**ug/L**
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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BOE-C6-0104857

Tait Environmental

Client Sample ID: MWC007_WG091905_0002

GC/MS Volatiles

Lot-Sample #...: E5I200157-012 Work Order #...: HKXX21AA Matrix.....: W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	94	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E5I200157

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	W	SW846 8260B		5265650	5265375
002	W	SW846 8260B		5265650	5265375
003	W	SW846 8260B		5265650	5265375
004	W	SW846 8260B		5265650	5265375
005	W	SW846 8260B		5265650	5265375
006	W	SW846 8260B		5265650	5265375
007	W	SW846 8260B		5265650	5265375
008	W	SW846 8260B		5265650	5265375
009	W	SW846 8260B		5265650	5265375
010	W	SW846 8260B		5265650	5265375
011	W	SW846 8260B		5265650	5265375
012	W	SW846 8260B		5265650	5265375

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5I200157 **Work Order #...:** HK7P51AA **Matrix.....:** WATER
MB Lot-Sample #: E5I220000-650

Prep Date.....: 09/22/05
Analysis Date..: 09/22/05 **Prep Batch #...:** 5265650

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B

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BOE-C6-0104861

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5I200157 **Work Order #...:** HK7P51AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	94	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I200157 **Work Order #...:** HK7P51AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I220000-650
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5265650

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	93	(40 - 160)	SW846 8260B
Chloromethane	97	(60 - 140)	SW846 8260B
Chloroethane	91	(60 - 140)	SW846 8260B
Bromomethane	119	(60 - 140)	SW846 8260B
t-Butanol	72	(40 - 150)	SW846 8260B
Trichlorofluoromethane	84	(70 - 130)	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	91	(60 - 140)	SW846 8260B
1,1-Dichloroethene	**92**	**(65 - 135)**	**SW846 8260B**
Methylene chloride	85	(70 - 130)	SW846 8260B
Methyl tert-butyl ether	80	(70 - 130)	SW846 8260B
Carbon disulfide	90	(70 - 130)	SW846 8260B
Acetone	87	(60 - 140)	SW846 8260B
trans-1,2-Dichloroethene	87	(70 - 130)	SW846 8260B
1,1-Dichloroethane	85	(70 - 130)	SW846 8260B
Dibromomethane	82	(70 - 130)	SW846 8260B
2,2-Dichloropropane	81	(70 - 130)	SW846 8260B
cis-1,2-Dichloroethene	86	(70 - 130)	SW846 8260B
Chloroform	83	(70 - 130)	SW846 8260B
Bromochloromethane	86	(70 - 130)	SW846 8260B
1,1,1-Trichloroethane	90	(70 - 130)	SW846 8260B
2-Butanone	81	(60 - 140)	SW846 8260B
1,1-Dichloropropene	86	(70 - 130)	SW846 8260B
1,2-Dichloropropane	85	(70 - 130)	SW846 8260B
Carbon tetrachloride	92	(70 - 130)	SW846 8260B
1,3-Dichloropropane	81	(70 - 130)	SW846 8260B
1,2-Dibromoethane	80	(70 - 130)	SW846 8260B
cis-1,3-Dichloropropene	88	(70 - 130)	SW846 8260B
Benzene	**85**	**(75 - 125)**	**SW846 8260B**
trans-1,3-Dichloropropene	82	(70 - 130)	SW846 8260B
Trichloroethene	**88**	**(75 - 135)**	**SW846 8260B**
Bromodichloromethane	90	(70 - 130)	SW846 8260B
Isopropyl ether	86	(70 - 130)	SW846 8260B
4-Methyl-2-pentanone	84	(60 - 140)	SW846 8260B
Naphthalene	77	(60 - 140)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I200157 **Work Order #...:** HK7P51AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I220000-650

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Toluene	**88**	**(75 - 125)**	**SW846 8260B**
1,1,2-Trichloroethane	80	(70 - 130)	SW846 8260B
Tert-amyl methyl ether	83	(70 - 130)	SW846 8260B
Tert-butyl ethyl ether	82	(70 - 130)	SW846 8260B
1,2-Dichloroethane	85	(70 - 130)	SW846 8260B
Tetrachloroethene	87	(70 - 130)	SW846 8260B
2-Hexanone	86	(60 - 140)	SW846 8260B
Dibromochloromethane	86	(70 - 130)	SW846 8260B
Chlorobenzene	**86**	**(75 - 125)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	88	(70 - 130)	SW846 8260B
Ethylbenzene	89	(70 - 130)	SW846 8260B
m-Xylene & p-Xylene	89	(70 - 130)	SW846 8260B
Vinyl chloride	90	(60 - 140)	SW846 8260B
o-Xylene	86	(70 - 130)	SW846 8260B
Styrene	86	(70 - 130)	SW846 8260B
Bromoform	79	(70 - 130)	SW846 8260B
Isopropylbenzene	78	(70 - 130)	SW846 8260B
1,1,2,2-Tetrachloroethane	75	(70 - 130)	SW846 8260B
1,2,3-Trichloropropane	78	(70 - 130)	SW846 8260B
n-Propylbenzene	85	(70 - 130)	SW846 8260B
Bromobenzene	84	(70 - 130)	SW846 8260B
1,3,5-Trimethylbenzene	91	(70 - 130)	SW846 8260B
2-Chlorotoluene	87	(70 - 130)	SW846 8260B
4-Chlorotoluene	90	(70 - 130)	SW846 8260B
tert-Butylbenzene	87	(70 - 130)	SW846 8260B
1,2,4-Trimethylbenzene	87	(70 - 130)	SW846 8260B
sec-Butylbenzene	90	(70 - 130)	SW846 8260B
p-Isopropyltoluene	82	(70 - 130)	SW846 8260B
1,3-Dichlorobenzene	82	(70 - 130)	SW846 8260B
1,4-Dichlorobenzene	83	(70 - 130)	SW846 8260B
n-Butylbenzene	84	(70 - 130)	SW846 8260B
1,2-Dichlorobenzene	80	(70 - 130)	SW846 8260B
1,2-Dibromo-3-chloro-propane	78	(60 - 140)	SW846 8260B
1,2,4-Trichloro-benzene	79	(70 - 130)	SW846 8260B
Hexachlorobutadiene	85	(70 - 130)	SW846 8260B

(Continued on next page)

BOE-C6-0104864

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I200157 **Work Order #...:** HK7P51AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I220000-650

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2,3-Trichlorobenzene	79	(70 - 130)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	86	(65 - 135)
Toluene-d8	98	(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 #...: E5I200157 **Work Order #...:** HK7P51AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I220000-650
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5265650

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Dichlorodifluoromethane	10.0	9.27	ug/L	93	SW846 8260B
Chloromethane	10.0	9.68	ug/L	97	SW846 8260B
Chloroethane	10.0	9.08	ug/L	91	SW846 8260B
Bromomethane	10.0	11.9	ug/L	119	SW846 8260B
t-Butanol	50.0	35.8	ug/L	72	SW846 8260B
Trichlorofluoromethane	10.0	8.36	ug/L	84	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	10.0	9.14	ug/L	91	SW846 8260B
1,1-Dichloroethene	**10.0**	**9.18**	**ug/L**	**92**	**SW846 8260B**
Methylene chloride	10.0	8.49	ug/L	85	SW846 8260B
Methyl tert-butyl ether	10.0	8.01	ug/L	80	SW846 8260B
Carbon disulfide	50.0	45.2	ug/L	90	SW846 8260B
Acetone	50.0	43.5	ug/L	87	SW846 8260B
trans-1,2-Dichloroethene	10.0	8.70	ug/L	87	SW846 8260B
1,1-Dichloroethane	10.0	8.48	ug/L	85	SW846 8260B
Dibromomethane	10.0	8.21	ug/L	82	SW846 8260B
2,2-Dichloropropane	10.0	8.07	ug/L	81	SW846 8260B
cis-1,2-Dichloroethene	10.0	8.58	ug/L	86	SW846 8260B
Chloroform	10.0	8.28	ug/L	83	SW846 8260B
Bromochloromethane	10.0	8.63	ug/L	86	SW846 8260B
1,1,1-Trichloroethane	10.0	9.02	ug/L	90	SW846 8260B
2-Butanone	50.0	40.7	ug/L	81	SW846 8260B
1,1-Dichloropropene	10.0	8.65	ug/L	86	SW846 8260B
1,2-Dichloropropane	10.0	8.48	ug/L	85	SW846 8260B
Carbon tetrachloride	10.0	9.22	ug/L	92	SW846 8260B
1,3-Dichloropropane	10.0	8.09	ug/L	81	SW846 8260B
1,2-Dibromoethane	10.0	8.05	ug/L	80	SW846 8260B
cis-1,3-Dichloropropene	10.0	8.76	ug/L	88	SW846 8260B
Benzene	**10.0**	**8.53**	**ug/L**	**85**	**SW846 8260B**
trans-1,3-Dichloropropene	10.0	8.16	ug/L	82	SW846 8260B
Trichloroethene	**10.0**	**8.80**	**ug/L**	**88**	**SW846 8260B**
Bromodichloromethane	10.0	8.97	ug/L	90	SW846 8260B
Isopropyl ether	10.0	8.64	ug/L	86	SW846 8260B
4-Methyl-2-pentanone	50.0	41.8	ug/L	84	SW846 8260B
Naphthalene	10.0	7.72	ug/L	77	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I200157 **Work Order #...:** HK7P51AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I220000-650

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Toluene	**10.0**	**8.78**	**ug/L**	**88**	**SW846 8260B**
1,1,2-Trichloroethane	10.0	8.04	ug/L	80	SW846 8260B
Tert-amyl methyl ether	10.0	8.32	ug/L	83	SW846 8260B
Tert-butyl ethyl ether	10.0	8.20	ug/L	82	SW846 8260B
1,2-Dichloroethane	10.0	8.54	ug/L	85	SW846 8260B
Tetrachloroethene	10.0	8.67	ug/L	87	SW846 8260B
2-Hexanone	50.0	43.1	ug/L	86	SW846 8260B
Dibromochloromethane	10.0	8.60	ug/L	86	SW846 8260B
Chlorobenzene	**10.0**	**8.56**	**ug/L**	**86**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	10.0	8.79	ug/L	88	SW846 8260B
Ethylbenzene	10.0	8.94	ug/L	89	SW846 8260B
m-Xylene & p-Xylene	20.0	17.8	ug/L	89	SW846 8260B
Vinyl chloride	10.0	9.01	ug/L	90	SW846 8260B
o-Xylene	10.0	8.62	ug/L	86	SW846 8260B
Styrene	10.0	8.64	ug/L	86	SW846 8260B
Bromoform	10.0	7.86	ug/L	79	SW846 8260B
Isopropylbenzene	10.0	7.76	ug/L	78	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	7.46	ug/L	75	SW846 8260B
1,2,3-Trichloropropane	10.0	7.85	ug/L	78	SW846 8260B
n-Propylbenzene	10.0	8.52	ug/L	85	SW846 8260B
Bromobenzene	10.0	8.37	ug/L	84	SW846 8260B
1,3,5-Trimethylbenzene	10.0	9.10	ug/L	91	SW846 8260B
2-Chlorotoluene	10.0	8.70	ug/L	87	SW846 8260B
4-Chlorotoluene	10.0	8.96	ug/L	90	SW846 8260B
tert-Butylbenzene	10.0	8.71	ug/L	87	SW846 8260B
1,2,4-Trimethylbenzene	10.0	8.74	ug/L	87	SW846 8260B
sec-Butylbenzene	10.0	8.98	ug/L	90	SW846 8260B
p-Isopropyltoluene	10.0	8.24	ug/L	82	SW846 8260B
1,3-Dichlorobenzene	10.0	8.21	ug/L	82	SW846 8260B
1,4-Dichlorobenzene	10.0	8.28	ug/L	83	SW846 8260B
n-Butylbenzene	10.0	8.45	ug/L	84	SW846 8260B
1,2-Dichlorobenzene	10.0	8.05	ug/L	80	SW846 8260B
1,2-Dibromo-3-chloro-propane	10.0	7.78	ug/L	78	SW846 8260B
1,2,4-Trichloro-benzene	10.0	7.86	ug/L	79	SW846 8260B
Hexachlorobutadiene	10.0	8.48	ug/L	85	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I200157 **Work Order #...:** HK7P51AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I220000-650

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,2,3-Trichlorobenzene	10.0	7.88	ug/L	79	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	86	(65 - 135)
Toluene-d8	98	(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 EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I200157 **Work Order #...:** HKXW81AC-MS **Matrix.....:** W
MS Lot-Sample #: E5I200157-003 HKXW81AD-MSD
Date Sampled...: 09/19/05 10:40 **Date Received..:** 09/19/05 17:00
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5265650

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**78**	**(65 - 135)**			**SW846 8260B**
	75	**(65 - 135)**	**0.32**	**(0-25)**	**SW846 8260B**
Benzene	**89**	**(75 - 125)**			**SW846 8260B**
	87	**(75 - 125)**	**1.7**	**(0-25)**	**SW846 8260B**
Trichloroethene	**87**	**(75 - 135)**			**SW846 8260B**
	84	**(75 - 135)**	**1.9**	**(0-25)**	**SW846 8260B**
Toluene	**92**	**(75 - 125)**			**SW846 8260B**
	84	**(75 - 125)**	**2.5**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**88**	**(75 - 125)**			**SW846 8260B**
	87	**(75 - 125)**	**2.0**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
	96	(75 - 130)
1,2-Dichloroethane-d4	91	(65 - 135)
	92	(65 - 135)
Toluene-d8	97	(80 - 130)
	95	(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 #...: E5I200157 **Work Order #...:** HKXW81AC-MS **Matrix.....:** W
MS Lot-Sample #: E5I200157-003 HKXW81AD-MSD
Date Sampled...: 09/19/05 10:40 **Date Received..:** 09/19/05 17:00
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5265650

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	11000	1430	12300	ug/L	78		SW846 8260B
	11000	1430	12200	ug/L	75	0.32	SW846 8260B
Benzene	ND	1430	1330	ug/L	89		SW846 8260B
	ND	1430	1310	ug/L	87	1.7	SW846 8260B
Trichloroethene	1300	1430	2540	ug/L	87		SW846 8260B
	1300	1430	2490	ug/L	84	1.9	SW846 8260B
Toluene	2800	1430	4080	ug/L	92		SW846 8260B
	2800	1430	3980	ug/L	84	2.5	SW846 8260B
Chlorobenzene	ND	1430	1260	ug/L	88		SW846 8260B
	ND	1430	1240	ug/L	87	2.0	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
	96	(75 - 130)
1,2-Dichloroethane-d4	91	(65 - 135)
	92	(65 - 135)
Toluene-d8	97	(80 - 130)
	95	(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

September 28, 2005

STL LOT NUMBER: E5I210383
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

Scott Zachary
Haley & Aldrich Inc
9040 Friars Road
Suite 220
San Diego, CA 92108

Dear Mr. Zachary,

This report contains the analytical results for the six samples received under chain of custody by STL Los Angeles on September 21, 2005. These samples are associated with your Boeing former C6 facility Torrance, California project.

All applicable quality control procedures met method-specified acceptance criteria. 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 000032 total pages in this report.

ES1210383

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

TL-4124 (0901)

Client: HALEY + ALDRICH, Inc.	Project Manager: Scott Zachary	Date: 9/21/05	Chain of Custody Number: 216930
Address: 9040 FRIARS ROAD SUITE 220	Telephone Number (Area Code)/Fax Number: 619 280 9210	Lab Number: ESI210383	Page 1 of 1
City: SAN DIEGO State: CA Zip Code: 92108	Site Contact: J. Miller	Lab Contact: D. Suzuki	
Project Name and Location (State): C-6 Torrance	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 28882-111			

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	Special Instructions/ Conditions of Receipt
FB-HA092105_0001	9/21/05	1155		X							3				X	
TB-HA092105_0001	9/21/05	1200		X							3				X	
MWG003_WG092105_0001	9/21/05	1205		X							3				X	
MWG003_WG092105_0002	9/21/05	1210		X							3				X	
MWG004_WG092105_0001	9/21/05	1435		X							3				X	
~~MWG~~ EB-HA092105_0001	9/21/05	1300		X							3				X	
							TOTAL: 18									Fax copy of Chain to Beth Breitenbach @ 619.280.~~9415~~ 9412 J. Miller @ 805.~~448-91~~ 889.83

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 10 or Standard

QC Requirements (Specify):

1. Relinquished By: (Haley + Aldrich, Inc.)	Date: 9/21/05	Time: 1540	1. Received By:	Date: 9/21/05	Time: 1540
2. Relinquished By:	Date: 9/21/05	Time: 1710	2. Received By:	Date: 9/21/05	Time: 17:10
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments: Temp 6.1 − 0.4 = 5.7

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

2

BOE-C6-0104872

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 9-21-05

LIMS Lot #: E5I210383 Quote #: 42295

Client Name: Haley & Aldrich Project: C-6 Torrance

Received by: MB Date/Time Received: 9-21-05 / 17:10

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

****

	Initial / Date
Custody Seal Status Cooler: ☐ Intact ☐ Broken ☒ None	MB 9-21-05
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 -.4 °C IR passed daily verification ☒ Yes ☐ No	
Temperature - BLANK 6.1 °C +/- .4 CF = 5.7 °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: CA 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…	
Outside Analysis(es) (Test/Lab/Date Sent Out) : NA	
	MB 9-21-05

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

Headspace Anomaly ☒ N/A MB 9-21-05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # ESI210383

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	F6													
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 MLO 9-21-05

- **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: MLO 9-21-05

PM Review/Date: MWC 9/22/05

BOE-C6-0104874

SEVERN TRENT STL

Analytical Report

EXECUTIVE SUMMARY - Detection Highlights

E5I210383

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TB_HA092105_0001 09/21/05 12:00 002				
Acetone	5.2 J	10	ug/L	SW846 8260B
MWG003_WG092105_0001 09/21/05 12:05 003				
trans-1,2-Dichloroethene	0.45 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	15	1.0	ug/L	SW846 8260B
Chloroform	0.59 J	1.0	ug/L	SW846 8260B
Trichloroethene	74	1.0	ug/L	SW846 8260B
MWG003_WG092105_0002 09/21/05 12:10 004				
trans-1,2-Dichloroethene	0.42 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	14	1.0	ug/L	SW846 8260B
Chloroform	0.60 J	1.0	ug/L	SW846 8260B
Trichloroethene	72	1.0	ug/L	SW846 8260B
MWG004_WG092105_0001 09/21/05 14:35 005				
Trichloroethene	13	1.0	ug/L	SW846 8260B

BOE-C6-0104876

METHODS SUMMARY

E5I210383

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-C6-0104877

SAMPLE SUMMARY

E5I210383

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HK393	001	FB_HA092105_0001	09/21/05	11:55
HK398	002	TB_HA092105_0001	09/21/05	12:00
HK4AC	003	MWG003_WG092105_0001	09/21/05	12:05
HK4AF	004	MWG003_WG092105_0002	09/21/05	12:10
HK4AG	005	MWG004_WG092105_0001	09/21/05	14:35
HK4AJ	006	EB_HA092105_0001	09/21/05	13:00

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-C6-0104878

Haley & Aldrich Inc.

Client Sample ID: FB_HA092105_0001

GC/MS Volatiles

Lot-Sample #...:	E5I210383-001	**Work Order #...:**	HK3931AA	**Matrix.....:**	WG
Date Sampled...:	09/21/05 11:55	**Date Received..:**	09/21/05 17:10	**MS Run #.....:**	5266348
Prep Date.....:	09/23/05	**Analysis Date..:**	09/23/05		
Prep Batch #...:	5266561	**Analysis Time..:**	13:26		
Dilution Factor:	1				
Analyst ID.....:	015590	**Instrument ID..:**	MSQ		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.40
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.40
Acetone	ND	10	ug/L	2.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.40
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	2.5
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	2.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.50
Styrene	ND	1.0	ug/L	0.30

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Haley & Aldrich Inc.

Client Sample ID: FB_HA092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-001 **Work Order #...:** HK3931AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.40
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	10
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	97	(65 - 135)
Toluene-d8	97	(80 - 130)

BOE-C6-0104880

Haley & Aldrich Inc.

Client Sample ID: TB_HA092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-002 **Work Order #...:** HK3981AA **Matrix.....:** WG
Date Sampled...: 09/21/05 12:00 **Date Received..:** 09/21/05 17:10 **MS Run #.....:** 5266348
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561 **Analysis Time..:** 13:49
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.40
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.40
Acetone	**5.2 J**	**10**	**ug/L**	**2.0**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.40
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	2.5
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	2.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.50
Styrene	ND	1.0	ug/L	0.30

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BOE-C6-0104881

Haley & Aldrich Inc.

Client Sample ID: TB_HA092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-002 **Work Order #...:** HK3981AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.40
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	10
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	97	(65 - 135)
Toluene-d8	96	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0104882

Haley & Aldrich Inc.

Client Sample ID: MWG003_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-003 **Work Order #...:** HK4AC1AA **Matrix.....:** WG
Date Sampled...: 09/21/05 12:05 **Date Received..:** 09/21/05 17:10 **MS Run #.....:** 5266348
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561 **Analysis Time..:** 14:12
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.40
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.40
Acetone	ND	10	ug/L	2.0
trans-1,2-Dichloroethene	**0.45 J**	**1.0**	**ug/L**	**0.30**
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.40
cis-1,2-Dichloroethene	**15**	**1.0**	**ug/L**	**0.30**
Chloroform	**0.59 J**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	2.5
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**74**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	2.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.50
Styrene	ND	1.0	ug/L	0.30

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BOE-C6-0104883

Haley & Aldrich Inc.

Client Sample ID: MWG003_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-003 **Work Order #...:** HK4AC1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.40
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	10
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

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

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0104884

Haley & Aldrich Inc.

Client Sample ID: MWG003_WG092105_0002

GC/MS Volatiles

Lot-Sample #...: E5I210383-004 **Work Order #...:** HK4AF1AA **Matrix.....:** WG
Date Sampled...: 09/21/05 12:10 **Date Received..:** 09/21/05 17:10 **MS Run #.....:** 5266348
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561 **Analysis Time..:** 14:35
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.40
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.40
Acetone	ND	10	ug/L	2.0
trans-1,2-Dichloroethene	**0.42 J**	**1.0**	**ug/L**	**0.30**
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.40
cis-1,2-Dichloroethene	**14**	**1.0**	**ug/L**	**0.30**
Chloroform	**0.60 J**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	2.5
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**72**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	2.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.50
Styrene	ND	1.0	ug/L	0.30

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BOE-C6-0104885

Haley & Aldrich Inc.

Client Sample ID: MWG003_WG092105_0002

GC/MS Volatiles

Lot-Sample #...: E5I210383-004 **Work Order #...:** HK4AF1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.40
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	10
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	87	(75 - 130)
1,2-Dichloroethane-d4	98	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0104886

Haley & Aldrich Inc.

Client Sample ID: MWG004_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-005 **Work Order #...:** HK4AG1AA **Matrix.....:** WG
Date Sampled...: 09/21/05 14:35 **Date Received..:** 09/21/05 17:10 **MS Run #.....:** 5266348
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561 **Analysis Time..:** 14:57
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.40
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.40
Acetone	ND	10	ug/L	2.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.40
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	2.5
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**13**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	2.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.50
Styrene	ND	1.0	ug/L	0.30

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BOE-C6-0104887

Haley & Aldrich Inc.

Client Sample ID: MWG004_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-005 **Work Order #...:** HK4AG1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.40
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	10
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	96	(80 - 130)

BOE-C6-0104888

Haley & Aldrich Inc.

Client Sample ID: EB_HA092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-006 **Work Order #...:** HK4AJ1AA **Matrix.....:** WG
Date Sampled...: 09/21/05 13:00 **Date Received..:** 09/21/05 17:10 **MS Run #.....:** 5266348
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561 **Analysis Time..:** 15:20
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.40
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.40
Acetone	ND	10	ug/L	2.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.40
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	2.5
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	2.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.50
Styrene	ND	1.0	ug/L	0.30

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BOE-C6-0104889

Haley & Aldrich Inc.

Client Sample ID: EB_HA092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-006 Work Order #...: HK4AJ1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.40
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	10
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	95	(65 - 135)
Toluene-d8	95	(80 - 130)

BOE-C6-0104890

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E5I210383

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WG	SW846 8260B		5266561	5266348
002	WG	SW846 8260B		5266561	5266348
003	WG	SW846 8260B		5266561	5266348
004	WG	SW846 8260B		5266561	5266348
005	WG	SW846 8260B		5266561	5266348
006	WG	SW846 8260B		5266561	5266348

BOE-C6-0104892

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5I210383 **Work Order #...:** HLCD41AA **Matrix.....:** WATER
MB Lot-Sample #: E5I230000-561

Prep Date.....: 09/23/05 **Analysis Time..:** 10:23
Analysis Date..: 09/23/05 **Prep Batch #...:** 5266561 **Instrument ID..:** MSQ
Dilution Factor: 1

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B

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BOE-C6-0104893

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5I210383 **Work Order #...:** HLCD41AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Tert-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Tert-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B
t-Butanol	ND	25	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isopropyl ether	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	96	(65 - 135)
Toluene-d8	96	(80 - 130)

NOTE(S):

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

BOE-C6-0104894

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I210383 **Work Order #...:** HLCD41AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-561
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561 **Analysis Time..:** 09:38
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	104	(40 - 160)	SW846 8260B
Chloromethane	125	(60 - 140)	SW846 8260B
Chloroethane	128	(60 - 140)	SW846 8260B
Bromomethane	157 a	(60 - 140)	SW846 8260B
Trichlorofluoromethane	112	(70 - 130)	SW846 8260B
1,1-Dichloroethene	**120**	**(65 - 135)**	**SW846 8260B**
Methylene chloride	106	(70 - 130)	SW846 8260B
Methyl tert-butyl ether	102	(70 - 130)	SW846 8260B
Carbon disulfide	122	(70 - 130)	SW846 8260B
Acetone	124	(60 - 140)	SW846 8260B
trans-1,2-Dichloroethene	108	(70 - 130)	SW846 8260B
1,1-Dichloroethane	107	(70 - 130)	SW846 8260B
Dibromomethane	92	(70 - 130)	SW846 8260B
2,2-Dichloropropane	95	(70 - 130)	SW846 8260B
cis-1,2-Dichloroethene	100	(70 - 130)	SW846 8260B
Chloroform	89	(70 - 130)	SW846 8260B
Bromochloromethane	80	(70 - 130)	SW846 8260B
1,1,1-Trichloroethane	93	(70 - 130)	SW846 8260B
2-Butanone	101	(60 - 140)	SW846 8260B
1,1-Dichloropropene	94	(70 - 130)	SW846 8260B
1,2-Dichloropropane	102	(70 - 130)	SW846 8260B
Carbon tetrachloride	94	(70 - 130)	SW846 8260B
1,3-Dichloropropane	94	(70 - 130)	SW846 8260B
1,2-Dibromoethane	88	(70 - 130)	SW846 8260B
cis-1,3-Dichloropropene	98	(70 - 130)	SW846 8260B
Benzene	**96**	**(75 - 125)**	**SW846 8260B**
trans-1,3-Dichloropropene	92	(70 - 130)	SW846 8260B
Trichloroethene	**89**	**(75 - 135)**	**SW846 8260B**
Bromodichloromethane	99	(70 - 130)	SW846 8260B
4-Methyl-2-pentanone	105	(60 - 140)	SW846 8260B
Naphthalene	82	(60 - 140)	SW846 8260B
Toluene	**94**	**(75 - 125)**	**SW846 8260B**
1,1,2-Trichloroethane	92	(70 - 130)	SW846 8260B

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BOE-C6-0104895

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I210383 **Work Order #...:** HLCD41AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-561

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2-Dichloroethane	94	(70 - 130)	SW846 8260B
Tetrachloroethene	86	(70 - 130)	SW846 8260B
2-Hexanone	107	(60 - 140)	SW846 8260B
Dibromochloromethane	92	(70 - 130)	SW846 8260B
Chlorobenzene	**89**	**(75 - 125)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	89	(70 - 130)	SW846 8260B
Ethylbenzene	93	(70 - 130)	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	110	(60 - 140)	SW846 8260B
m-Xylene & p-Xylene	94	(70 - 130)	SW846 8260B
Vinyl chloride	113	(60 - 140)	SW846 8260B
o-Xylene	91	(70 - 130)	SW846 8260B
Styrene	92	(70 - 130)	SW846 8260B
Bromoform	84	(70 - 130)	SW846 8260B
Isopropylbenzene	83	(70 - 130)	SW846 8260B
1,1,2,2-Tetrachloroethane	89	(70 - 130)	SW846 8260B
1,2,3-Trichloropropane	84	(70 - 130)	SW846 8260B
n-Propylbenzene	91	(70 - 130)	SW846 8260B
Bromobenzene	82	(70 - 130)	SW846 8260B
1,3,5-Trimethylbenzene	91	(70 - 130)	SW846 8260B
2-Chlorotoluene	86	(70 - 130)	SW846 8260B
4-Chlorotoluene	88	(70 - 130)	SW846 8260B
tert-Butylbenzene	88	(70 - 130)	SW846 8260B
1,2,4-Trimethylbenzene	88	(70 - 130)	SW846 8260B
sec-Butylbenzene	93	(70 - 130)	SW846 8260B
p-Isopropyltoluene	85	(70 - 130)	SW846 8260B
1,3-Dichlorobenzene	82	(70 - 130)	SW846 8260B
1,4-Dichlorobenzene	83	(70 - 130)	SW846 8260B
n-Butylbenzene	91	(70 - 130)	SW846 8260B
1,2-Dichlorobenzene	83	(70 - 130)	SW846 8260B
1,2-Dibromo-3-chloro-propane	79	(60 - 140)	SW846 8260B
1,2,4-Trichloro-benzene	79	(70 - 130)	SW846 8260B
Hexachlorobutadiene	82	(70 - 130)	SW846 8260B
1,2,3-Trichlorobenzene	81	(70 - 130)	SW846 8260B
Tert-amyl methyl ether	92	(70 - 130)	SW846 8260B

(Continued on next page)

BOE-C6-0104896

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I210383 **Work Order #...:** HLCD41AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-561

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Tert-butyl ethyl ether	100	(70 - 130)	SW846 8260B
t-Butanol	132	(40 - 150)	SW846 8260B
Isopropyl ether	113	(70 - 130)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	98	(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.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I210383 **Work Order #...:** HLCD41AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-561
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561 **Analysis Time..:** 09:38
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Dichlorodifluoromethane	10.0	10.4	ug/L	104	SW846 8260B
Chloromethane	10.0	12.5	ug/L	125	SW846 8260B
Chloroethane	10.0	12.8	ug/L	128	SW846 8260B
Bromomethane	10.0	15.7 a	ug/L	157	SW846 8260B
Trichlorofluoromethane	10.0	11.2	ug/L	112	SW846 8260B
1,1-Dichloroethene	**10.0**	**12.0**	**ug/L**	**120**	**SW846 8260B**
Methylene chloride	10.0	10.6	ug/L	106	SW846 8260B
Methyl tert-butyl ether	10.0	10.2	ug/L	102	SW846 8260B
Carbon disulfide	50.0	60.9	ug/L	122	SW846 8260B
Acetone	50.0	62.0	ug/L	124	SW846 8260B
trans-1,2-Dichloroethene	10.0	10.8	ug/L	108	SW846 8260B
1,1-Dichloroethane	10.0	10.7	ug/L	107	SW846 8260B
Dibromomethane	10.0	9.16	ug/L	92	SW846 8260B
2,2-Dichloropropane	10.0	9.46	ug/L	95	SW846 8260B
cis-1,2-Dichloroethene	10.0	10.0	ug/L	100	SW846 8260B
Chloroform	10.0	8.90	ug/L	89	SW846 8260B
Bromochloromethane	10.0	7.95	ug/L	80	SW846 8260B
1,1,1-Trichloroethane	10.0	9.33	ug/L	93	SW846 8260B
2-Butanone	50.0	50.4	ug/L	101	SW846 8260B
1,1-Dichloropropene	10.0	9.41	ug/L	94	SW846 8260B
1,2-Dichloropropane	10.0	10.2	ug/L	102	SW846 8260B
Carbon tetrachloride	10.0	9.42	ug/L	94	SW846 8260B
1,3-Dichloropropane	10.0	9.44	ug/L	94	SW846 8260B
1,2-Dibromoethane	10.0	8.78	ug/L	88	SW846 8260B
cis-1,3-Dichloropropene	10.0	9.80	ug/L	98	SW846 8260B
Benzene	**10.0**	**9.57**	**ug/L**	**96**	**SW846 8260B**
trans-1,3-Dichloropropene	10.0	9.17	ug/L	92	SW846 8260B
Trichloroethene	**10.0**	**8.88**	**ug/L**	**89**	**SW846 8260B**
Bromodichloromethane	10.0	9.94	ug/L	99	SW846 8260B
4-Methyl-2-pentanone	50.0	52.6	ug/L	105	SW846 8260B
Naphthalene	10.0	8.16	ug/L	82	SW846 8260B
Toluene	**10.0**	**9.39**	**ug/L**	**94**	**SW846 8260B**
1,1,2-Trichloroethane	10.0	9.24	ug/L	92	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I210383 **Work Order #...:** HLCD41AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-561

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,2-Dichloroethane	10.0	9.37	ug/L	94	SW846 8260B
Tetrachloroethene	10.0	8.62	ug/L	86	SW846 8260B
2-Hexanone	50.0	53.6	ug/L	107	SW846 8260B
Dibromochloromethane	10.0	9.22	ug/L	92	SW846 8260B
Chlorobenzene	**10.0**	**8.86**	**ug/L**	**89**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	10.0	8.86	ug/L	89	SW846 8260B
Ethylbenzene	10.0	9.31	ug/L	93	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	10.0	11.0	ug/L	110	SW846 8260B
m-Xylene & p-Xylene	20.0	18.8	ug/L	94	SW846 8260B
Vinyl chloride	10.0	11.3	ug/L	113	SW846 8260B
o-Xylene	10.0	9.07	ug/L	91	SW846 8260B
Styrene	10.0	9.21	ug/L	92	SW846 8260B
Bromoform	10.0	8.39	ug/L	84	SW846 8260B
Isopropylbenzene	10.0	8.27	ug/L	83	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	8.90	ug/L	89	SW846 8260B
1,2,3-Trichloropropane	10.0	8.38	ug/L	84	SW846 8260B
n-Propylbenzene	10.0	9.07	ug/L	91	SW846 8260B
Bromobenzene	10.0	8.25	ug/L	82	SW846 8260B
1,3,5-Trimethylbenzene	10.0	9.11	ug/L	91	SW846 8260B
2-Chlorotoluene	10.0	8.58	ug/L	86	SW846 8260B
4-Chlorotoluene	10.0	8.80	ug/L	88	SW846 8260B
tert-Butylbenzene	10.0	8.76	ug/L	88	SW846 8260B
1,2,4-Trimethylbenzene	10.0	8.84	ug/L	88	SW846 8260B
sec-Butylbenzene	10.0	9.29	ug/L	93	SW846 8260B
p-Isopropyltoluene	10.0	8.47	ug/L	85	SW846 8260B
1,3-Dichlorobenzene	10.0	8.24	ug/L	82	SW846 8260B
1,4-Dichlorobenzene	10.0	8.34	ug/L	83	SW846 8260B
n-Butylbenzene	10.0	9.13	ug/L	91	SW846 8260B
1,2-Dichlorobenzene	10.0	8.27	ug/L	83	SW846 8260B
1,2-Dibromo-3-chloro-propane	10.0	7.92	ug/L	79	SW846 8260B
1,2,4-Trichloro-benzene	10.0	7.88	ug/L	79	SW846 8260B
Hexachlorobutadiene	10.0	8.15	ug/L	82	SW846 8260B
1,2,3-Trichlorobenzene	10.0	8.06	ug/L	81	SW846 8260B
Tert-amyl methyl ether	10.0	9.21	ug/L	92	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I210383 **Work Order #...:** HLCD41AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-561

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Tert-butyl ethyl ether	10.0	10.0	ug/L	100	SW846 8260B
t-Butanol	50.0	66.1	ug/L	132	SW846 8260B
Isopropyl ether	10.0	11.3	ug/L	113	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	98	(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 #...:	E5I210383	**Work Order #...:**	HK0861AC-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E5I200331-005		HK0861AD-MSD		
Date Sampled...:	09/19/05 17:21	**Date Received..:**	09/20/05 12:15	**MS Run #.....:**	5266348
Prep Date.....:	09/23/05	**Analysis Date..:**	09/23/05		
Prep Batch #...:	5266561	**Analysis Time..:**	12:40		
Dilution Factor:	200	**Analyst ID.....:**	015590	**Instrument ID..:**	MSQ

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**100**	**(65 - 135)**			**SW846 8260B**
	103	**(65 - 135)**	**2.2**	**(0-25)**	**SW846 8260B**
Benzene	**96**	**(75 - 125)**			**SW846 8260B**
	93	**(75 - 125)**	**3.3**	**(0-25)**	**SW846 8260B**
Trichloroethene	**0.0 MSB**	**(75 - 135)**			**SW846 8260B**
	0.0 MSB	**(75 - 135)**	**0.0**	**(0-25)**	**SW846 8260B**
Toluene	**92**	**(75 - 125)**			**SW846 8260B**
	89	**(75 - 125)**	**2.6**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**90**	**(75 - 125)**			**SW846 8260B**
	87	**(75 - 125)**	**2.8**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
	94	(75 - 130)
1,2-Dichloroethane-d4	93	(65 - 135)
	91	(65 - 135)
Toluene-d8	97	(80 - 130)
	97	(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 DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I210383 **Work Order #...:** HK0861AC-MS **Matrix.....:** WATER
MS Lot-Sample #: E5I200331-005 HK0861AD-MSD
Date Sampled...: 09/19/05 17:21 **Date Received..:** 09/20/05 12:15 **MS Run #.....:** 5266348
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561 **Analysis Time..:** 12:40
Dilution Factor: 200 **Analyst ID.....:** 015590 **Instrument ID..:** MSQ

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	1100	2000	3080	ug/L	100		SW846 8260B
	1100	2000	3150	ug/L	103	2.2	SW846 8260B
Benzene	ND	2000	1910	ug/L	96		SW846 8260B
	ND	2000	1850	ug/L	93	3.3	SW846 8260B
Trichloroethene	16000	2000		ug/L	0.0		SW846 8260B
	Qualifiers: MSB						
	16000	2000		ug/L	0.0	0.0	SW846 8260B
	Qualifiers: MSB						
Toluene	ND	2000	1840	ug/L	92		SW846 8260B
	ND	2000	1790	ug/L	89	2.6	SW846 8260B
Chlorobenzene	ND	2000	1800	ug/L	90		SW846 8260B
	ND	2000	1750	ug/L	87	2.8	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
	94	(75 - 130)
1,2-Dichloroethane-d4	93	(65 - 135)
	91	(65 - 135)
Toluene-d8	97	(80 - 130)
	97	(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.

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

September 28, 2005

STL LOT NUMBER: E5I210421
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

Mehmet Pehlivan
Tait Environmental
701 Park Center Dr
Santa Ana, CA 92705

Dear Mr. Pehlivan,

This report contains the analytical results for the 15 samples received under chain of custody by STL Los Angeles on September 21, 2005. These samples are associated with your Boeing former C6 facility Torrance, 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 000064 total pages in this report.

LOT NUMBER E5I210421

Nonconformance 05-14028

Affected Samples:
E5I210421 (1): MWC021_WG092005_0001
E5I210421 (3): TB_TAIT092105_0001

Affected Methods:
8260B VOC

Case Narrative:
One VOA vials from sample E5I210421 (1): MWC021_WG092005_0001 above contain a bubble > 6mm in diameter. Three VOA vials from sample E5I210421 (3): TB_TAIT092105_0001 contain bubbles > 6mm in diameter. Analysis is performed on a VOA vial without headspace when available.

F6J321532

[redacted]

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

GSI 210421

TL-4124 (0901)

Client: TAIT ENVIRONMENTAL MGMT.	Project Manager: MEHMET PEHLIVAN	Date: 9/20/05	Chain of Custody Number: 216984
Address: 701 N. PARKCENTER DR.	Telephone Number (Area Code)/Fax Number: (714)560-8200 / 560-8235	Lab Number:	Page 1 of 2
City: SANTA ANA; State: CA; Zip Code: 92705	Site Contact: N. CHANDRAN	Lab Contact: D. SUZUKI	
Project Name and Location (State): SEPT. 2005 SAMPLING TORRANCE BRC C-6	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

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

Special Instructions/ Conditions of Receipt

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	8260B
MWC021_WG092005_0001	9/20/05	1125		X						4			X
VCC-5S_WG092005_0001	9/20/05	1130		X						4			X
TB_TAIT092105_0001	9/21/05	—		X						3			X
DB_TAIT092105_0001	9/21/05	730		X						3			X
FB-TAIT092105_0001	9/21/05	820		X						3			X
TMW_15_WG092105_0001	9/21/05	825		X						4			X
TMW_10_WG092105_0001	9/21/05	935		X						4			X
WCC_12S_WG092105_0001	9/21/05	1035		X						4			X
WCC_9S_WG092105_0001	9/21/05	1140		X						4			X
~~WCC~~ MWB020_WG092105_0001	9/21/05	1255		X						4			X
MWB020_WG092105_0002	9/21/05	1255		X						4			X
TMW_11_WG092105_0001	9/21/05	1335		X						4			X

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] 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 [X] Other NORMAL

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Mitya Chandran	9/21/05	1545	1. Received By: Vincent Palile	9/21/05	1545
2. Relinquished By: Vincent Palile	9/21/05	1710	2. Received By: [signature]	9/21/05	17:10
3. Relinquished By			3. Received By		

Comments: Temp ~ 5.0 − 0.4 = 4.6

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

4

BOE-C6-0104905

F6J321532

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc. ESI 216421

TL-4124 (0901)

Client: TAIT ENVIRONMENTAL MGMT.	Project Manager: MEHMET PEHLIVAN	Date: 9/21/05	Chain of Custody Number: 216982
Address: 701 N. PARKCENTER DR.	Telephone Number (Area Code)/Fax Number: (714) 560-8200 / 560-8235	Lab Number:	Page 2 of 2
City: SANTA ANA; State: CA; Zip Code: 92705	Site Contact: N. CHANDRAN	Lab Contact: D. SUZUKI	
Project Name and Location (State): SEPT 2005 SAMPLING TORRANCE BRC C-6	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

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	Special Instructions/ Conditions of Receipt
MWC009_WG092105_0001	9/21/05	1435		X							4				X	
MWC004_WG092105_0001	9/21/05	1525		X							4				X	
EB_TAIT092105_0001	9/21/05	1535		X							3				X	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] 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 [X] Other NORMAL

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Mitya Chandra	9/21/05	1545	1. Received By: [signature]	9/21/05	1545
2. Relinquished By: [signature]	9/21/05	1710	2. Received By: [signature]	9/21/05	17:10
3. Relinquished By:			3. Received By:		

Comments:

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

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BOE-C6-0104906

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 9/21/05

LIMS Lot #: ESI 210421 Quote #: 40334

Client Name: Tait Env. Management Project: Sept. 2005 Sampling Torrance BRC C-6

Received by: CA Date/Time Received: 9/21/05 17:10

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

****

	Initial / Date
Custody Seal Status Cooler: ☐Intact ☐Broken ☒None	CA 9/21/05
Custody Seal Status Samples: ☐Intact ☐Broken ☒None	
Custody Seal #(s): _____ ☒No Seal #	
Sampler Signature on COC ☐ Yes ☐No ☒N/A	
IR Gun # 4 Correction Factor .4 °C IR passed daily verification ☒Yes ☐No	
Temperature - BLANK 5.0 °C +/- .4 CF = 4.6 °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: CA 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 9/21/05

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

_____

_____

_____

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

Headspace Anomaly ☐N/A CA 9/21/05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
001	1	☒ > 6mm			☐ > 6mm
003	1,2,3	☒ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # ESI 110411

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1-2	3-5	6-14	15										
VOAH/ *	4	3	4	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 9/21/05

- **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 Vargas 9-21-05

PM Review/Date: MVC 9/22/05

SEVERN TRENT STL

Analytical Report

EXECUTIVE SUMMARY - Detection Highlights

E5I210421

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MWC021_WG092005_0001 09/20/05 11:25 001				
1,1-Dichloroethene	0.73 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	0.51 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	4.0	1.0	ug/L	SW846 8260B
Chloroform	0.36 J	1.0	ug/L	SW846 8260B
Trichloroethene	10	1.0	ug/L	SW846 8260B
WCC_5S_WG092005_0001 09/20/05 11:30 002				
Trichlorofluoromethane	0.54 J	2.0	ug/L	SW846 8260B
1,1-Dichloroethene	5.7	1.0	ug/L	SW846 8260B
Trichloroethene	2.2	1.0	ug/L	SW846 8260B
Tetrahydrofuran	29	10	ug/L	SW846 8260B
TB_TAIT092105_0001 09/21/05 003				
Acetone	7.3 J	10	ug/L	SW846 8260B
DB_TAIT092105_0001 09/21/05 07:30 004				
1,2-Dichlorobenzene	0.89 J	1.0	ug/L	SW846 8260B
FB_TAIT092105_0001 09/21/05 08:20 005				
1,2-Dichlorobenzene	0.89 J	1.0	ug/L	SW846 8260B
TMW_15_WG092105_0001 09/21/05 08:25 006				
1,1-Dichloroethene	1.1	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.2	1.0	ug/L	SW846 8260B
Chloroform	3.2	1.0	ug/L	SW846 8260B
Trichloroethene	12	1.0	ug/L	SW846 8260B
TMW_10_WG092105_0001 09/21/05 09:35 007				
Dichlorodifluoromethane	2.8	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	2.2	2.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.33 J	1.0	ug/L	SW846 8260B
Chloroform	3.7	1.0	ug/L	SW846 8260B
Trichloroethene	8.2	1.0	ug/L	SW846 8260B
Tetrachloroethene	1.4	1.0	ug/L	SW846 8260B

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EXECUTIVE SUMMARY - Detection Highlights

E5I210421

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WCC_12S_WG092105_0001 09/21/05 10:35	**008**			
1,1-Dichloroethene	25	2.5	ug/L	SW846 8260B
1,1-Dichloroethane	17	2.5	ug/L	SW846 8260B
cis-1,2-Dichloroethene	3.8	2.5	ug/L	SW846 8260B
Chloroform	1.8 J	2.5	ug/L	SW846 8260B
2-Butanone	12	12	ug/L	SW846 8260B
Trichloroethene	120	2.5	ug/L	SW846 8260B
Tetrachloroethene	1.1 J	2.5	ug/L	SW846 8260B
Tetrahydrofuran	80	25	ug/L	SW846 8260B
WCC_9S_WG092105_0001 09/21/05 11:40	**009**			
Dichlorodifluoromethane	0.74 J	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	0.71 J	2.0	ug/L	SW846 8260B
1,1-Dichloroethene	3.4	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	1.4	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.2	1.0	ug/L	SW846 8260B
Chloroform	10	1.0	ug/L	SW846 8260B
Trichloroethene	37	1.0	ug/L	SW846 8260B
MWB020_WG092105_0001 09/21/05 12:55	**010**			
Methylene chloride	0.70 J	1.6	ug/L	SW846 8260B
trans-1,2-Dichloroethene	3.7	1.6	ug/L	SW846 8260B
1,1-Dichloroethane	3.6	1.6	ug/L	SW846 8260B
cis-1,2-Dichloroethene	110	1.6	ug/L	SW846 8260B
Chloroform	0.85 J	1.6	ug/L	SW846 8260B
Trichloroethene	26	1.6	ug/L	SW846 8260B
MWB020_WG092105_0002 09/21/05 12:55	**011**			
1,1-Dichloroethene	0.56 J	1.6	ug/L	SW846 8260B
trans-1,2-Dichloroethene	1.1 J	1.6	ug/L	SW846 8260B
1,1-Dichloroethane	3.6	1.6	ug/L	SW846 8260B
cis-1,2-Dichloroethene	110	1.6	ug/L	SW846 8260B
Chloroform	0.82 J	1.6	ug/L	SW846 8260B
Trichloroethene	25	1.6	ug/L	SW846 8260B
TMW_11_WG092105_0001 09/21/05 13:35	**012**			
Chloroform	220	4.0	ug/L	SW846 8260B
Carbon tetrachloride	2.0	2.0	ug/L	SW846 8260B
Trichloroethene	4.8	4.0	ug/L	SW846 8260B
Tetrachloroethene	3.6 J	4.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E5I210421

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MWC009_WG092105_0001 09/21/05 14:35 013				
1,1-Dichloroethene	830	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	14	10	ug/L	SW846 8260B
1,1-Dichloroethane	6.1 J	10	ug/L	SW846 8260B
cis-1,2-Dichloroethene	23	10	ug/L	SW846 8260B
Trichloroethene	210	10	ug/L	SW846 8260B
1,1,2-Trichloroethane	6.0 J	10	ug/L	SW846 8260B
1,2-Dichloroethane	6.9	5.0	ug/L	SW846 8260B
MWC004_WG092105_0001 09/21/05 15:25 014				
1,1-Dichloroethene	630	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	10	10	ug/L	SW846 8260B
1,1-Dichloroethane	6.4 J	10	ug/L	SW846 8260B
cis-1,2-Dichloroethene	16	10	ug/L	SW846 8260B
Trichloroethene	180	10	ug/L	SW846 8260B
1,1,2-Trichloroethane	4.6 J	10	ug/L	SW846 8260B
1,2-Dichloroethane	5.5	5.0	ug/L	SW846 8260B
EB_TAIT092105_0001 09/21/05 15:35 015				
1,2-Dichlorobenzene	0.96 J	1.0	ug/L	SW846 8260B

METHODS SUMMARY

E5I210421

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.

SAMPLE SUMMARY

E5I210421

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HK4J2	001	MWC021_WG092005_0001	09/20/05	11:25
HK4J3	002	WCC_5S_WG092005_0001	09/20/05	11:30
HK4J4	003	TB_TAIT092105_0001	09/21/05	
HK4J7	004	DB_TAIT092105_0001	09/21/05	07:30
HK4J9	005	FB_TAIT092105_0001	09/21/05	08:20
HK4KA	006	TMW_15_WG092105_0001	09/21/05	08:25
HK4KD	007	TMW_10_WG092105_0001	09/21/05	09:35
HK4KE	008	WCC_12S_WG092105_0001	09/21/05	10:35
HK4KF	009	WCC_9S_WG092105_0001	09/21/05	11:40
HK4KG	010	MWB020_WG092105_0001	09/21/05	12:55
HK4KH	011	MWB020_WG092105_0002	09/21/05	12:55
HK4KJ	012	TMW_11_WG092105_0001	09/21/05	13:35
HK4KL	013	MWC009_WG092105_0001	09/21/05	14:35
HK4KN	014	MWC004_WG092105_0001	09/21/05	15:25
HK4KP	015	EB_TAIT092105_0001	09/21/05	15:35

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.

Tait Environmental

Client Sample ID: MWC021_WG092005_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-001 **Work Order #...:** HK4J21AA **Matrix.....:** W
Date Sampled...: 09/20/05 11:25 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5266517 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	**0.73 J**	**1.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	**0.51 J**	**1.0**	**ug/L**
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	**4.0**	**1.0**	**ug/L**
Chloroform	**0.36 J**	**1.0**	**ug/L**
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	**10**	**1.0**	**ug/L**
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Tait Environmental

Client Sample ID: MWC021_WG092005_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-001 **Work Order #...:** HK4J21AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	93	(65 - 135)
Toluene-d8	96	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: WCC_5S_WG092005_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-002 **Work Order #...:** HK4J31AA **Matrix.....:** W
Date Sampled...: 09/20/05 11:30 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5266517 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	**0.54 J**	**2.0**	**ug/L**
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	**5.7**	**1.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	**2.2**	**1.0**	**ug/L**
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Tait Environmental

Client Sample ID: WCC_5S_WG092005_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-002 **Work Order #...:** HK4J31AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	**29**	**10**	**ug/L**
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	97	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: TB_TAIT092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-003 **Work Order #...:** HK4J41AA **Matrix.....:** W
Date Sampled...: 09/21/05 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5266517 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	**7.3 J**	**10**	**ug/L**
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

(Continued on next page)

Tait Environmental

Client Sample ID: TB_TAIT092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-003 **Work Order #...:** HK4J41AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	97	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: DB_TAIT092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-004 **Work Order #...:** HK4J71AA **Matrix.....:** W
Date Sampled...: 09/21/05 07:30 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5266517 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Tait Environmental

Client Sample ID: DB_TAIT092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-004 **Work Order #...:** HK4J71AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	**0.89 J**	**1.0**	**ug/L**
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(75 - 130)
1,2-Dichloroethane-d4	91	(65 - 135)
Toluene-d8	96	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: FB_TAIT092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-005 **Work Order #...:** HK4J91AA **Matrix.....:** W
Date Sampled...: 09/21/05 08:20 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5266517 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Tait Environmental

Client Sample ID: FB_TAIT092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-005 **Work Order #...:** HK4J91AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	**0.89 J**	**1.0**	**ug/L**
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

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

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: TMW_15_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-006 **Work Order #...:** HK4KA1AA **Matrix.....:** W
Date Sampled...: 09/21/05 08:25 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5266517 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	**1.1**	**1.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	**2.2**	**1.0**	**ug/L**
Chloroform	**3.2**	**1.0**	**ug/L**
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	**12**	**1.0**	**ug/L**
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Tait Environmental

Client Sample ID: TMW_15_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-006 **Work Order #...:** HK4KA1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
Toluene-d8	96	(80 - 130)

Tait Environmental

Client Sample ID: TMW_10_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-007 **Work Order #...:** HK4KD1AA **Matrix.....:** W
Date Sampled...: 09/21/05 09:35 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266517 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	**2.8**	**1.0**	**ug/L**
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	**2.2**	**2.0**	**ug/L**
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	**0.33 J**	**1.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
Chloroform	**3.7**	**1.0**	**ug/L**
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	**8.2**	**1.0**	**ug/L**
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	**1.4**	**1.0**	**ug/L**
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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BOE-C6-0104927

Tait Environmental

Client Sample ID: TMW_10_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-007 **Work Order #...:** HK4KD1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(75 - 130)
1,2-Dichloroethane-d4	94	(65 - 135)
Toluene-d8	94	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: WCC_12S_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-008 **Work Order #...:** HK4KE1AA **Matrix.....:** W
Date Sampled...: 09/21/05 10:35 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266517 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	2.5	ug/L
Chloromethane	ND	5.0	ug/L
Chloroethane	ND	5.0	ug/L
Bromomethane	ND	5.0	ug/L
Trichlorofluoromethane	ND	5.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	2.5	ug/L
1,1-Dichloroethene	**25**	**2.5**	**ug/L**
Methylene chloride	ND	2.5	ug/L
Methyl tert-butyl ether	ND	2.5	ug/L
Carbon disulfide	ND	2.5	ug/L
Acetone	ND	25	ug/L
trans-1,2-Dichloroethene	ND	2.5	ug/L
1,1-Dichloroethane	**17**	**2.5**	**ug/L**
2,2-Dichloropropane	ND	2.5	ug/L
cis-1,2-Dichloroethene	**3.8**	**2.5**	**ug/L**
Chloroform	**1.8 J**	**2.5**	**ug/L**
Bromochloromethane	ND	2.5	ug/L
1,1,1-Trichloroethane	ND	2.5	ug/L
2-Butanone	**12**	**12**	**ug/L**
1,1-Dichloropropene	ND	2.5	ug/L
Carbon tetrachloride	ND	1.2	ug/L
1,2-Dibromoethane	ND	2.5	ug/L
Benzene	ND	2.5	ug/L
Trichloroethene	**120**	**2.5**	**ug/L**
Bromodichloromethane	ND	2.5	ug/L
4-Methyl-2-pentanone	ND	12	ug/L
Toluene	ND	2.5	ug/L
1,1,2-Trichloroethane	ND	2.5	ug/L
1,2-Dichloroethane	ND	1.2	ug/L
Tetrachloroethene	**1.1 J**	**2.5**	**ug/L**
2-Hexanone	ND	12	ug/L
Dibromochloromethane	ND	2.5	ug/L
Chlorobenzene	ND	2.5	ug/L
1,1,1,2-Tetrachloroethane	ND	2.5	ug/L
Ethylbenzene	ND	2.5	ug/L
Vinyl chloride	ND	1.2	ug/L
Xylenes (total)	ND	2.5	ug/L
Styrene	ND	2.5	ug/L
Bromoform	ND	2.5	ug/L

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Tait Environmental

Client Sample ID: WCC_12S_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-008 **Work Order #...:** HK4KE1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	2.5	ug/L
1,1,2,2-Tetrachloroethane	ND	2.5	ug/L
1,2,3-Trichloropropane	ND	2.5	ug/L
n-Propylbenzene	ND	2.5	ug/L
Bromobenzene	ND	2.5	ug/L
1,3,5-Trimethylbenzene	ND	2.5	ug/L
2-Chlorotoluene	ND	2.5	ug/L
4-Chlorotoluene	ND	2.5	ug/L
tert-Butylbenzene	ND	2.5	ug/L
1,2,4-Trimethylbenzene	ND	2.5	ug/L
sec-Butylbenzene	ND	2.5	ug/L
p-Isopropyltoluene	ND	2.5	ug/L
1,3-Dichlorobenzene	ND	2.5	ug/L
1,4-Dichlorobenzene	ND	2.5	ug/L
n-Butylbenzene	ND	2.5	ug/L
1,2-Dichlorobenzene	ND	2.5	ug/L
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/L
1,2,4-Trichloro-benzene	ND	2.5	ug/L
Hexachlorobutadiene	ND	2.5	ug/L
1,2,3-Trichlorobenzene	ND	2.5	ug/L
Acrolein	ND	50	ug/L
Acrylonitrile	ND	50	ug/L
Iodomethane	ND	5.0	ug/L
2-Chloroethyl vinyl ether	ND	12	ug/L
Tetrahydrofuran	**80**	**25**	**ug/L**
Vinyl acetate	ND	12	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	93	(65 - 135)
Toluene-d8	96	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: WCC_9S_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-009 **Work Order #...:** HK4KF1AA **Matrix.....:** W
Date Sampled...: 09/21/05 11:40 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266517 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	**0.74 J**	**1.0**	**ug/L**
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	**0.71 J**	**2.0**	**ug/L**
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	**3.4**	**1.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	**1.4**	**1.0**	**ug/L**
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	**2.2**	**1.0**	**ug/L**
Chloroform	**10**	**1.0**	**ug/L**
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	**37**	**1.0**	**ug/L**
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Tait Environmental

Client Sample ID: WCC_9S_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-009 **Work Order #...:** HK4KF1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: MWB020_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-010 **Work Order #...:** HK4KG1AA **Matrix.....:** W
Date Sampled...: 09/21/05 12:55 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.6	ug/L
Chloromethane	ND	3.1	ug/L
Chloroethane	ND	3.1	ug/L
Bromomethane	ND	3.1	ug/L
Trichlorofluoromethane	ND	3.1	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.6	ug/L
1,1-Dichloroethene	ND	1.6	ug/L
Methylene chloride	**0.70 J**	**1.6**	**ug/L**
Methyl tert-butyl ether	ND	1.6	ug/L
Carbon disulfide	ND	1.6	ug/L
Acetone	ND	16	ug/L
trans-1,2-Dichloroethene	**3.7**	**1.6**	**ug/L**
1,1-Dichloroethane	**3.6**	**1.6**	**ug/L**
2,2-Dichloropropane	ND	1.6	ug/L
cis-1,2-Dichloroethene	**110**	**1.6**	**ug/L**
Chloroform	**0.85 J**	**1.6**	**ug/L**
Bromochloromethane	ND	1.6	ug/L
1,1,1-Trichloroethane	ND	1.6	ug/L
2-Butanone	ND	7.8	ug/L
1,1-Dichloropropene	ND	1.6	ug/L
Carbon tetrachloride	ND	0.78	ug/L
1,2-Dibromoethane	ND	1.6	ug/L
Benzene	ND	1.6	ug/L
Trichloroethene	**26**	**1.6**	**ug/L**
Bromodichloromethane	ND	1.6	ug/L
4-Methyl-2-pentanone	ND	7.8	ug/L
Toluene	ND	1.6	ug/L
1,1,2-Trichloroethane	ND	1.6	ug/L
1,2-Dichloroethane	ND	0.78	ug/L
Tetrachloroethene	ND	1.6	ug/L
2-Hexanone	ND	7.8	ug/L
Dibromochloromethane	ND	1.6	ug/L
Chlorobenzene	ND	1.6	ug/L
1,1,1,2-Tetrachloroethane	ND	1.6	ug/L
Ethylbenzene	ND	1.6	ug/L
Vinyl chloride	ND	0.78	ug/L
Xylenes (total)	ND	1.6	ug/L
Styrene	ND	1.6	ug/L
Bromoform	ND	1.6	ug/L

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Tait Environmental

Client Sample ID: MWB020_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-010 **Work Order #...:** HK4KG1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.6	ug/L
1,1,2,2-Tetrachloroethane	ND	1.6	ug/L
1,2,3-Trichloropropane	ND	1.6	ug/L
n-Propylbenzene	ND	1.6	ug/L
Bromobenzene	ND	1.6	ug/L
1,3,5-Trimethylbenzene	ND	1.6	ug/L
2-Chlorotoluene	ND	1.6	ug/L
4-Chlorotoluene	ND	1.6	ug/L
tert-Butylbenzene	ND	1.6	ug/L
1,2,4-Trimethylbenzene	ND	1.6	ug/L
sec-Butylbenzene	ND	1.6	ug/L
p-Isopropyltoluene	ND	1.6	ug/L
1,3-Dichlorobenzene	ND	1.6	ug/L
1,4-Dichlorobenzene	ND	1.6	ug/L
n-Butylbenzene	ND	1.6	ug/L
1,2-Dichlorobenzene	ND	1.6	ug/L
1,2-Dibromo-3-chloro-propane	ND	3.1	ug/L
1,2,4-Trichloro-benzene	ND	1.6	ug/L
Hexachlorobutadiene	ND	1.6	ug/L
1,2,3-Trichlorobenzene	ND	1.6	ug/L
Acrolein	ND	31	ug/L
Acrylonitrile	ND	31	ug/L
Iodomethane	ND	3.1	ug/L
2-Chloroethyl vinyl ether	ND	7.8	ug/L
Tetrahydrofuran	ND	16	ug/L
Vinyl acetate	ND	7.8	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	87	(75 - 130)
1,2-Dichloroethane-d4	97	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: MWB020_WG092105_0002

GC/MS Volatiles

Lot-Sample #...: E5I210421-011 **Work Order #...:** HK4KH1AA **Matrix.....:** W
Date Sampled...: 09/21/05 12:55 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.6	ug/L
Chloromethane	ND	3.1	ug/L
Chloroethane	ND	3.1	ug/L
Bromomethane	ND	3.1	ug/L
Trichlorofluoromethane	ND	3.1	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.6	ug/L
1,1-Dichloroethene	**0.56 J**	**1.6**	**ug/L**
Methylene chloride	ND	1.6	ug/L
Methyl tert-butyl ether	ND	1.6	ug/L
Carbon disulfide	ND	1.6	ug/L
Acetone	ND	16	ug/L
trans-1,2-Dichloroethene	**1.1 J**	**1.6**	**ug/L**
1,1-Dichloroethane	**3.6**	**1.6**	**ug/L**
2,2-Dichloropropane	ND	1.6	ug/L
cis-1,2-Dichloroethene	**110**	**1.6**	**ug/L**
Chloroform	**0.82 J**	**1.6**	**ug/L**
Bromochloromethane	ND	1.6	ug/L
1,1,1-Trichloroethane	ND	1.6	ug/L
2-Butanone	ND	7.8	ug/L
1,1-Dichloropropene	ND	1.6	ug/L
Carbon tetrachloride	ND	0.78	ug/L
1,2-Dibromoethane	ND	1.6	ug/L
Benzene	ND	1.6	ug/L
Trichloroethene	**25**	**1.6**	**ug/L**
Bromodichloromethane	ND	1.6	ug/L
4-Methyl-2-pentanone	ND	7.8	ug/L
Toluene	ND	1.6	ug/L
1,1,2-Trichloroethane	ND	1.6	ug/L
1,2-Dichloroethane	ND	0.78	ug/L
Tetrachloroethene	ND	1.6	ug/L
2-Hexanone	ND	7.8	ug/L
Dibromochloromethane	ND	1.6	ug/L
Chlorobenzene	ND	1.6	ug/L
1,1,1,2-Tetrachloroethane	ND	1.6	ug/L
Ethylbenzene	ND	1.6	ug/L
Vinyl chloride	ND	0.78	ug/L
Xylenes (total)	ND	1.6	ug/L
Styrene	ND	1.6	ug/L
Bromoform	ND	1.6	ug/L

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BOE-C6-0104935

Tait Environmental

Client Sample ID: MWB020_WG092105_0002

GC/MS Volatiles

Lot-Sample #...: E5I210421-011 **Work Order #...:** HK4KH1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.6	ug/L
1,1,2,2-Tetrachloroethane	ND	1.6	ug/L
1,2,3-Trichloropropane	ND	1.6	ug/L
n-Propylbenzene	ND	1.6	ug/L
Bromobenzene	ND	1.6	ug/L
1,3,5-Trimethylbenzene	ND	1.6	ug/L
2-Chlorotoluene	ND	1.6	ug/L
4-Chlorotoluene	ND	1.6	ug/L
tert-Butylbenzene	ND	1.6	ug/L
1,2,4-Trimethylbenzene	ND	1.6	ug/L
sec-Butylbenzene	ND	1.6	ug/L
p-Isopropyltoluene	ND	1.6	ug/L
1,3-Dichlorobenzene	ND	1.6	ug/L
1,4-Dichlorobenzene	ND	1.6	ug/L
n-Butylbenzene	ND	1.6	ug/L
1,2-Dichlorobenzene	ND	1.6	ug/L
1,2-Dibromo-3-chloro-propane	ND	3.1	ug/L
1,2,4-Trichloro-benzene	ND	1.6	ug/L
Hexachlorobutadiene	ND	1.6	ug/L
1,2,3-Trichlorobenzene	ND	1.6	ug/L
Acrolein	ND	31	ug/L
Acrylonitrile	ND	31	ug/L
Iodomethane	ND	3.1	ug/L
2-Chloroethyl vinyl ether	ND	7.8	ug/L
Tetrahydrofuran	ND	16	ug/L
Vinyl acetate	ND	7.8	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(75 - 130)
1,2-Dichloroethane-d4	101	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: TMW_11_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-012 **Work Order #...:** HK4KJ1AA **Matrix.....:** W
Date Sampled...: 09/21/05 13:35 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266517 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	4.0	ug/L
Chloromethane	ND	8.0	ug/L
Chloroethane	ND	8.0	ug/L
Bromomethane	ND	8.0	ug/L
Trichlorofluoromethane	ND	8.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	4.0	ug/L
1,1-Dichloroethene	ND	4.0	ug/L
Methylene chloride	ND	4.0	ug/L
Methyl tert-butyl ether	ND	4.0	ug/L
Carbon disulfide	ND	4.0	ug/L
Acetone	ND	40	ug/L
trans-1,2-Dichloroethene	ND	4.0	ug/L
1,1-Dichloroethane	ND	4.0	ug/L
2,2-Dichloropropane	ND	4.0	ug/L
cis-1,2-Dichloroethene	ND	4.0	ug/L
Chloroform	**220**	**4.0**	**ug/L**
Bromochloromethane	ND	4.0	ug/L
1,1,1-Trichloroethane	ND	4.0	ug/L
2-Butanone	ND	20	ug/L
1,1-Dichloropropene	ND	4.0	ug/L
Carbon tetrachloride	**2.0**	**2.0**	**ug/L**
1,2-Dibromoethane	ND	4.0	ug/L
Benzene	ND	4.0	ug/L
Trichloroethene	**4.8**	**4.0**	**ug/L**
Bromodichloromethane	ND	4.0	ug/L
4-Methyl-2-pentanone	ND	20	ug/L
Toluene	ND	4.0	ug/L
1,1,2-Trichloroethane	ND	4.0	ug/L
1,2-Dichloroethane	ND	2.0	ug/L
Tetrachloroethene	**3.6 J**	**4.0**	**ug/L**
2-Hexanone	ND	20	ug/L
Dibromochloromethane	ND	4.0	ug/L
Chlorobenzene	ND	4.0	ug/L
1,1,1,2-Tetrachloroethane	ND	4.0	ug/L
Ethylbenzene	ND	4.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Xylenes (total)	ND	4.0	ug/L
Styrene	ND	4.0	ug/L
Bromoform	ND	4.0	ug/L

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Tait Environmental

Client Sample ID: TMW_11_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-012 **Work Order #...:** HK4KJ1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	4.0	ug/L
1,1,2,2-Tetrachloroethane	ND	4.0	ug/L
1,2,3-Trichloropropane	ND	4.0	ug/L
n-Propylbenzene	ND	4.0	ug/L
Bromobenzene	ND	4.0	ug/L
1,3,5-Trimethylbenzene	ND	4.0	ug/L
2-Chlorotoluene	ND	4.0	ug/L
4-Chlorotoluene	ND	4.0	ug/L
tert-Butylbenzene	ND	4.0	ug/L
1,2,4-Trimethylbenzene	ND	4.0	ug/L
sec-Butylbenzene	ND	4.0	ug/L
p-Isopropyltoluene	ND	4.0	ug/L
1,3-Dichlorobenzene	ND	4.0	ug/L
1,4-Dichlorobenzene	ND	4.0	ug/L
n-Butylbenzene	ND	4.0	ug/L
1,2-Dichlorobenzene	ND	4.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	8.0	ug/L
1,2,4-Trichloro-benzene	ND	4.0	ug/L
Hexachlorobutadiene	ND	4.0	ug/L
1,2,3-Trichlorobenzene	ND	4.0	ug/L
Acrolein	ND	80	ug/L
Acrylonitrile	ND	80	ug/L
Iodomethane	ND	8.0	ug/L
2-Chloroethyl vinyl ether	ND	20	ug/L
Tetrahydrofuran	ND	40	ug/L
Vinyl acetate	ND	20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	91	(65 - 135)
Toluene-d8	97	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: MWC009_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-013 **Work Order #...:** HK4KL1AA **Matrix.....:** W
Date Sampled...: 09/21/05 14:35 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266517 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	10	ug/L
Chloromethane	ND	20	ug/L
Chloroethane	ND	20	ug/L
Bromomethane	ND	20	ug/L
Trichlorofluoromethane	ND	20	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	10	ug/L
1,1-Dichloroethene	**830**	**10**	**ug/L**
Methylene chloride	ND	10	ug/L
Methyl tert-butyl ether	ND	10	ug/L
Carbon disulfide	ND	10	ug/L
Acetone	ND	100	ug/L
trans-1,2-Dichloroethene	**14**	**10**	**ug/L**
1,1-Dichloroethane	**6.1 J**	**10**	**ug/L**
2,2-Dichloropropane	ND	10	ug/L
cis-1,2-Dichloroethene	**23**	**10**	**ug/L**
Chloroform	ND	10	ug/L
Bromochloromethane	ND	10	ug/L
1,1,1-Trichloroethane	ND	10	ug/L
2-Butanone	ND	50	ug/L
1,1-Dichloropropene	ND	10	ug/L
Carbon tetrachloride	ND	5.0	ug/L
1,2-Dibromoethane	ND	10	ug/L
Benzene	ND	10	ug/L
Trichloroethene	**210**	**10**	**ug/L**
Bromodichloromethane	ND	10	ug/L
4-Methyl-2-pentanone	ND	50	ug/L
Toluene	ND	10	ug/L
1,1,2-Trichloroethane	**6.0 J**	**10**	**ug/L**
1,2-Dichloroethane	**6.9**	**5.0**	**ug/L**
Tetrachloroethene	ND	10	ug/L
2-Hexanone	ND	50	ug/L
Dibromochloromethane	ND	10	ug/L
Chlorobenzene	ND	10	ug/L
1,1,1,2-Tetrachloroethane	ND	10	ug/L
Ethylbenzene	ND	10	ug/L
Vinyl chloride	ND	5.0	ug/L
Xylenes (total)	ND	10	ug/L
Styrene	ND	10	ug/L
Bromoform	ND	10	ug/L

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Tait Environmental

Client Sample ID: MWC009_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-013 **Work Order #...:** HK4KL1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	10	ug/L
1,1,2,2-Tetrachloroethane	ND	10	ug/L
1,2,3-Trichloropropane	ND	10	ug/L
n-Propylbenzene	ND	10	ug/L
Bromobenzene	ND	10	ug/L
1,3,5-Trimethylbenzene	ND	10	ug/L
2-Chlorotoluene	ND	10	ug/L
4-Chlorotoluene	ND	10	ug/L
tert-Butylbenzene	ND	10	ug/L
1,2,4-Trimethylbenzene	ND	10	ug/L
sec-Butylbenzene	ND	10	ug/L
p-Isopropyltoluene	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
n-Butylbenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
1,2-Dibromo-3-chloro-propane	ND	20	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
1,2,3-Trichlorobenzene	ND	10	ug/L
Acrolein	ND	200	ug/L
Acrylonitrile	ND	200	ug/L
Iodomethane	ND	20	ug/L
2-Chloroethyl vinyl ether	ND	50	ug/L
Tetrahydrofuran	ND	100	ug/L
Vinyl acetate	ND	50	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	96	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: MWC004_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-014 **Work Order #...:** HK4KN1AA **Matrix.....:** W
Date Sampled...: 09/21/05 15:25 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266517 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	10	ug/L
Chloromethane	ND	20	ug/L
Chloroethane	ND	20	ug/L
Bromomethane	ND	20	ug/L
Trichlorofluoromethane	ND	20	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	10	ug/L
1,1-Dichloroethene	**630**	**10**	**ug/L**
Methylene chloride	ND	10	ug/L
Methyl tert-butyl ether	ND	10	ug/L
Carbon disulfide	ND	10	ug/L
Acetone	ND	100	ug/L
trans-1,2-Dichloroethene	**10**	**10**	**ug/L**
1,1-Dichloroethane	**6.4 J**	**10**	**ug/L**
2,2-Dichloropropane	ND	10	ug/L
cis-1,2-Dichloroethene	**16**	**10**	**ug/L**
Chloroform	ND	10	ug/L
Bromochloromethane	ND	10	ug/L
1,1,1-Trichloroethane	ND	10	ug/L
2-Butanone	ND	50	ug/L
1,1-Dichloropropene	ND	10	ug/L
Carbon tetrachloride	ND	5.0	ug/L
1,2-Dibromoethane	ND	10	ug/L
Benzene	ND	10	ug/L
Trichloroethene	**180**	**10**	**ug/L**
Bromodichloromethane	ND	10	ug/L
4-Methyl-2-pentanone	ND	50	ug/L
Toluene	ND	10	ug/L
1,1,2-Trichloroethane	**4.6 J**	**10**	**ug/L**
1,2-Dichloroethane	**5.5**	**5.0**	**ug/L**
Tetrachloroethene	ND	10	ug/L
2-Hexanone	ND	50	ug/L
Dibromochloromethane	ND	10	ug/L
Chlorobenzene	ND	10	ug/L
1,1,1,2-Tetrachloroethane	ND	10	ug/L
Ethylbenzene	ND	10	ug/L
Vinyl chloride	ND	5.0	ug/L
Xylenes (total)	ND	10	ug/L
Styrene	ND	10	ug/L
Bromoform	ND	10	ug/L

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Tait Environmental

Client Sample ID: MWC004_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-014 **Work Order #...:** HK4KN1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	10	ug/L
1,1,2,2-Tetrachloroethane	ND	10	ug/L
1,2,3-Trichloropropane	ND	10	ug/L
n-Propylbenzene	ND	10	ug/L
Bromobenzene	ND	10	ug/L
1,3,5-Trimethylbenzene	ND	10	ug/L
2-Chlorotoluene	ND	10	ug/L
4-Chlorotoluene	ND	10	ug/L
tert-Butylbenzene	ND	10	ug/L
1,2,4-Trimethylbenzene	ND	10	ug/L
sec-Butylbenzene	ND	10	ug/L
p-Isopropyltoluene	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
n-Butylbenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
1,2-Dibromo-3-chloro-propane	ND	20	ug/L
1,2,4-Trichloro-benzene	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
1,2,3-Trichlorobenzene	ND	10	ug/L
Acrolein	ND	200	ug/L
Acrylonitrile	ND	200	ug/L
Iodomethane	ND	20	ug/L
2-Chloroethyl vinyl ether	ND	50	ug/L
Tetrahydrofuran	ND	100	ug/L
Vinyl acetate	ND	50	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(75 - 130)
1,2-Dichloroethane-d4	91	(65 - 135)
Toluene-d8	97	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: EB_TAIT092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-015 **Work Order #...:** HK4KP1AA **Matrix.....:** W
Date Sampled...: 09/21/05 15:35 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5266517 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Acetone	ND	10	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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BOE-C6-0104943

Tait Environmental

Client Sample ID: EB_TAIT092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210421-015 **Work Order #...:** HK4KP1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	**0.96 J**	**1.0**	**ug/L**
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Iodomethane	ND	2.0	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
Vinyl acetate	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	89	(65 - 135)
Toluene-d8	98	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E5I210421

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	W	SW846 8260B		5266517	5266308
002	W	SW846 8260B		5266517	5266308
003	W	SW846 8260B		5266517	5266308
004	W	SW846 8260B		5266517	5266308
005	W	SW846 8260B		5266517	5266308
006	W	SW846 8260B		5266517	5266308
007	W	SW846 8260B		5266517	5266308
008	W	SW846 8260B		5266517	5266308
009	W	SW846 8260B		5266517	5266308
010	W	SW846 8260B		5266561	5266348
011	W	SW846 8260B		5266561	5266348
012	W	SW846 8260B		5266517	5266308
013	W	SW846 8260B		5266517	5266308
014	W	SW846 8260B		5266517	5266308
015	W	SW846 8260B		5266517	5266308

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLAQ11AA **Matrix.....:** WATER
MB Lot-Sample #: E5I230000-517

Prep Date.....: 09/22/05
Analysis Date..: 09/22/05 **Prep Batch #...:** 5266517

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLAQ11AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	87	(75 - 130)
1,2-Dichloroethane-d4	91	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLCD41AA **Matrix.....:** WATER
MB Lot-Sample #: E5I230000-561

Prep Date.....: 09/23/05
Analysis Date..: 09/23/05 **Prep Batch #...:** 5266561

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B

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BOE-C6-0104949

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLCD41AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	96	(65 - 135)
Toluene-d8	96	(80 - 130)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLAQ11AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-517
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5266517

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	90	(40 - 160)	SW846 8260B
Chloromethane	103	(60 - 140)	SW846 8260B
Chloroethane	107	(60 - 140)	SW846 8260B
Bromomethane	143 a	(60 - 140)	SW846 8260B
t-Butanol	129	(40 - 150)	SW846 8260B
Trichlorofluoromethane	96	(70 - 130)	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	100	(60 - 140)	SW846 8260B
1,1-Dichloroethene	**107**	**(65 - 135)**	**SW846 8260B**
Methylene chloride	94	(70 - 130)	SW846 8260B
Methyl tert-butyl ether	91	(70 - 130)	SW846 8260B
Carbon disulfide	104	(70 - 130)	SW846 8260B
Acetone	112	(60 - 140)	SW846 8260B
trans-1,2-Dichloroethene	95	(70 - 130)	SW846 8260B
1,1-Dichloroethane	92	(70 - 130)	SW846 8260B
Dibromomethane	87	(70 - 130)	SW846 8260B
2,2-Dichloropropane	89	(70 - 130)	SW846 8260B
cis-1,2-Dichloroethene	91	(70 - 130)	SW846 8260B
Chloroform	85	(70 - 130)	SW846 8260B
Bromochloromethane	78	(70 - 130)	SW846 8260B
1,1,1-Trichloroethane	87	(70 - 130)	SW846 8260B
2-Butanone	95	(60 - 140)	SW846 8260B
1,1-Dichloropropene	88	(70 - 130)	SW846 8260B
1,2-Dichloropropane	92	(70 - 130)	SW846 8260B
Carbon tetrachloride	88	(70 - 130)	SW846 8260B
1,3-Dichloropropane	91	(70 - 130)	SW846 8260B
1,2-Dibromoethane	86	(70 - 130)	SW846 8260B
cis-1,3-Dichloropropene	92	(70 - 130)	SW846 8260B
Benzene	**91**	**(75 - 125)**	**SW846 8260B**
trans-1,3-Dichloropropene	86	(70 - 130)	SW846 8260B
Trichloroethene	**85**	**(75 - 135)**	**SW846 8260B**
Bromodichloromethane	93	(70 - 130)	SW846 8260B
Isopropyl ether	99	(70 - 130)	SW846 8260B
4-Methyl-2-pentanone	93	(60 - 140)	SW846 8260B
Naphthalene	78	(60 - 140)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLAQ11AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-517

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Toluene	**91**	**(75 - 125)**	**SW846 8260B**
1,1,2-Trichloroethane	91	(70 - 130)	SW846 8260B
Tert-amyl methyl ether	86	(70 - 130)	SW846 8260B
Tert-butyl ethyl ether	89	(70 - 130)	SW846 8260B
1,2-Dichloroethane	86	(70 - 130)	SW846 8260B
Tetrachloroethene	84	(70 - 130)	SW846 8260B
2-Hexanone	96	(60 - 140)	SW846 8260B
Dibromochloromethane	91	(70 - 130)	SW846 8260B
Chlorobenzene	**88**	**(75 - 125)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	88	(70 - 130)	SW846 8260B
Ethylbenzene	92	(70 - 130)	SW846 8260B
m-Xylene & p-Xylene	92	(70 - 130)	SW846 8260B
Vinyl chloride	97	(60 - 140)	SW846 8260B
o-Xylene	88	(70 - 130)	SW846 8260B
Styrene	90	(70 - 130)	SW846 8260B
Bromoform	82	(70 - 130)	SW846 8260B
Isopropylbenzene	79	(70 - 130)	SW846 8260B
1,1,2,2-Tetrachloroethane	84	(70 - 130)	SW846 8260B
1,2,3-Trichloropropane	83	(70 - 130)	SW846 8260B
n-Propylbenzene	87	(70 - 130)	SW846 8260B
Bromobenzene	82	(70 - 130)	SW846 8260B
1,3,5-Trimethylbenzene	89	(70 - 130)	SW846 8260B
2-Chlorotoluene	85	(70 - 130)	SW846 8260B
4-Chlorotoluene	89	(70 - 130)	SW846 8260B
tert-Butylbenzene	85	(70 - 130)	SW846 8260B
1,2,4-Trimethylbenzene	86	(70 - 130)	SW846 8260B
sec-Butylbenzene	90	(70 - 130)	SW846 8260B
p-Isopropyltoluene	83	(70 - 130)	SW846 8260B
1,3-Dichlorobenzene	81	(70 - 130)	SW846 8260B
1,4-Dichlorobenzene	82	(70 - 130)	SW846 8260B
n-Butylbenzene	88	(70 - 130)	SW846 8260B
1,2-Dichlorobenzene	81	(70 - 130)	SW846 8260B
1,2-Dibromo-3-chloro-propane	78	(60 - 140)	SW846 8260B
1,2,4-Trichloro-benzene	78	(70 - 130)	SW846 8260B
Hexachlorobutadiene	78	(70 - 130)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLAQ11AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-517

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2,3-Trichlorobenzene	78	(70 - 130)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	85	(65 - 135)
Toluene-d8	97	(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.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLAQ11AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-517
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5266517

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Dichlorodifluoromethane	10.0	9.01	ug/L	90	SW846 8260B
Chloromethane	10.0	10.3	ug/L	103	SW846 8260B
Chloroethane	10.0	10.7	ug/L	107	SW846 8260B
Bromomethane	10.0	14.3 a	ug/L	143	SW846 8260B
t-Butanol	50.0	64.4	ug/L	129	SW846 8260B
Trichlorofluoromethane	10.0	9.60	ug/L	96	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	10.0	9.98	ug/L	100	SW846 8260B
1,1-Dichloroethene	**10.0**	**10.7**	**ug/L**	**107**	**SW846 8260B**
Methylene chloride	10.0	9.36	ug/L	94	SW846 8260B
Methyl tert-butyl ether	10.0	9.10	ug/L	91	SW846 8260B
Carbon disulfide	50.0	51.9	ug/L	104	SW846 8260B
Acetone	50.0	55.8	ug/L	112	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.48	ug/L	95	SW846 8260B
1,1-Dichloroethane	10.0	9.24	ug/L	92	SW846 8260B
Dibromomethane	10.0	8.73	ug/L	87	SW846 8260B
2,2-Dichloropropane	10.0	8.87	ug/L	89	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.11	ug/L	91	SW846 8260B
Chloroform	10.0	8.52	ug/L	85	SW846 8260B
Bromochloromethane	10.0	7.78	ug/L	78	SW846 8260B
1,1,1-Trichloroethane	10.0	8.71	ug/L	87	SW846 8260B
2-Butanone	50.0	47.4	ug/L	95	SW846 8260B
1,1-Dichloropropene	10.0	8.79	ug/L	88	SW846 8260B
1,2-Dichloropropane	10.0	9.25	ug/L	92	SW846 8260B
Carbon tetrachloride	10.0	8.76	ug/L	88	SW846 8260B
1,3-Dichloropropane	10.0	9.06	ug/L	91	SW846 8260B
1,2-Dibromoethane	10.0	8.55	ug/L	86	SW846 8260B
cis-1,3-Dichloropropene	10.0	9.24	ug/L	92	SW846 8260B
Benzene	**10.0**	**9.08**	**ug/L**	**91**	**SW846 8260B**
trans-1,3-Dichloropropene	10.0	8.61	ug/L	86	SW846 8260B
Trichloroethene	**10.0**	**8.52**	**ug/L**	**85**	**SW846 8260B**
Bromodichloromethane	10.0	9.32	ug/L	93	SW846 8260B
Isopropyl ether	10.0	9.93	ug/L	99	SW846 8260B
4-Methyl-2-pentanone	50.0	46.7	ug/L	93	SW846 8260B
Naphthalene	10.0	7.84	ug/L	78	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLAQ11AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-517

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Toluene	**10.0**	**9.12**	**ug/L**	**91**	**SW846 8260B**
1,1,2-Trichloroethane	10.0	9.07	ug/L	91	SW846 8260B
Tert-amyl methyl ether	10.0	8.61	ug/L	86	SW846 8260B
Tert-butyl ethyl ether	10.0	8.86	ug/L	89	SW846 8260B
1,2-Dichloroethane	10.0	8.56	ug/L	86	SW846 8260B
Tetrachloroethene	10.0	8.44	ug/L	84	SW846 8260B
2-Hexanone	50.0	47.9	ug/L	96	SW846 8260B
Dibromochloromethane	10.0	9.09	ug/L	91	SW846 8260B
Chlorobenzene	**10.0**	**8.85**	**ug/L**	**88**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	10.0	8.81	ug/L	88	SW846 8260B
Ethylbenzene	10.0	9.24	ug/L	92	SW846 8260B
m-Xylene & p-Xylene	20.0	18.4	ug/L	92	SW846 8260B
Vinyl chloride	10.0	9.70	ug/L	97	SW846 8260B
o-Xylene	10.0	8.84	ug/L	88	SW846 8260B
Styrene	10.0	9.02	ug/L	90	SW846 8260B
Bromoform	10.0	8.20	ug/L	82	SW846 8260B
Isopropylbenzene	10.0	7.94	ug/L	79	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	8.39	ug/L	84	SW846 8260B
1,2,3-Trichloropropane	10.0	8.33	ug/L	83	SW846 8260B
n-Propylbenzene	10.0	8.66	ug/L	87	SW846 8260B
Bromobenzene	10.0	8.19	ug/L	82	SW846 8260B
1,3,5-Trimethylbenzene	10.0	8.90	ug/L	89	SW846 8260B
2-Chlorotoluene	10.0	8.49	ug/L	85	SW846 8260B
4-Chlorotoluene	10.0	8.89	ug/L	89	SW846 8260B
tert-Butylbenzene	10.0	8.49	ug/L	85	SW846 8260B
1,2,4-Trimethylbenzene	10.0	8.62	ug/L	86	SW846 8260B
sec-Butylbenzene	10.0	9.00	ug/L	90	SW846 8260B
p-Isopropyltoluene	10.0	8.27	ug/L	83	SW846 8260B
1,3-Dichlorobenzene	10.0	8.11	ug/L	81	SW846 8260B
1,4-Dichlorobenzene	10.0	8.25	ug/L	82	SW846 8260B
n-Butylbenzene	10.0	8.80	ug/L	88	SW846 8260B
1,2-Dichlorobenzene	10.0	8.08	ug/L	81	SW846 8260B
1,2-Dibromo-3-chloro-propane	10.0	7.84	ug/L	78	SW846 8260B
1,2,4-Trichloro-benzene	10.0	7.76	ug/L	78	SW846 8260B
Hexachlorobutadiene	10.0	7.82	ug/L	78	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLAQ11AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-517

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,2,3-Trichlorobenzene	10.0	7.85	ug/L	78	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	85	(65 - 135)
Toluene-d8	97	(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.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLCD41AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-561
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	104	(40 - 160)	SW846 8260B
Chloromethane	125	(60 - 140)	SW846 8260B
Chloroethane	128	(60 - 140)	SW846 8260B
Bromomethane	157 a	(60 - 140)	SW846 8260B
t-Butanol	132	(40 - 150)	SW846 8260B
Trichlorofluoromethane	112	(70 - 130)	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	110	(60 - 140)	SW846 8260B
1,1-Dichloroethene	**120**	**(65 - 135)**	**SW846 8260B**
Methylene chloride	106	(70 - 130)	SW846 8260B
Methyl tert-butyl ether	102	(70 - 130)	SW846 8260B
Carbon disulfide	122	(70 - 130)	SW846 8260B
Acetone	124	(60 - 140)	SW846 8260B
trans-1,2-Dichloroethene	108	(70 - 130)	SW846 8260B
1,1-Dichloroethane	107	(70 - 130)	SW846 8260B
Dibromomethane	92	(70 - 130)	SW846 8260B
2,2-Dichloropropane	95	(70 - 130)	SW846 8260B
cis-1,2-Dichloroethene	100	(70 - 130)	SW846 8260B
Chloroform	89	(70 - 130)	SW846 8260B
Bromochloromethane	80	(70 - 130)	SW846 8260B
1,1,1-Trichloroethane	93	(70 - 130)	SW846 8260B
2-Butanone	101	(60 - 140)	SW846 8260B
1,1-Dichloropropene	94	(70 - 130)	SW846 8260B
1,2-Dichloropropane	102	(70 - 130)	SW846 8260B
Carbon tetrachloride	94	(70 - 130)	SW846 8260B
1,3-Dichloropropane	94	(70 - 130)	SW846 8260B
1,2-Dibromoethane	88	(70 - 130)	SW846 8260B
cis-1,3-Dichloropropene	98	(70 - 130)	SW846 8260B
Benzene	**96**	**(75 - 125)**	**SW846 8260B**
trans-1,3-Dichloropropene	92	(70 - 130)	SW846 8260B
Trichloroethene	**89**	**(75 - 135)**	**SW846 8260B**
Bromodichloromethane	99	(70 - 130)	SW846 8260B
Isopropyl ether	113	(70 - 130)	SW846 8260B
4-Methyl-2-pentanone	105	(60 - 140)	SW846 8260B
Naphthalene	82	(60 - 140)	SW846 8260B

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BOE-C6-0104957

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLCD41AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-561

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Toluene	**94**	**(75 - 125)**	**SW846 8260B**
1,1,2-Trichloroethane	92	(70 - 130)	SW846 8260B
Tert-amyl methyl ether	92	(70 - 130)	SW846 8260B
Tert-butyl ethyl ether	100	(70 - 130)	SW846 8260B
1,2-Dichloroethane	94	(70 - 130)	SW846 8260B
Tetrachloroethene	86	(70 - 130)	SW846 8260B
2-Hexanone	107	(60 - 140)	SW846 8260B
Dibromochloromethane	92	(70 - 130)	SW846 8260B
Chlorobenzene	**89**	**(75 - 125)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	89	(70 - 130)	SW846 8260B
Ethylbenzene	93	(70 - 130)	SW846 8260B
m-Xylene & p-Xylene	94	(70 - 130)	SW846 8260B
Vinyl chloride	113	(60 - 140)	SW846 8260B
o-Xylene	91	(70 - 130)	SW846 8260B
Styrene	92	(70 - 130)	SW846 8260B
Bromoform	84	(70 - 130)	SW846 8260B
Isopropylbenzene	83	(70 - 130)	SW846 8260B
1,1,2,2-Tetrachloroethane	89	(70 - 130)	SW846 8260B
1,2,3-Trichloropropane	84	(70 - 130)	SW846 8260B
n-Propylbenzene	91	(70 - 130)	SW846 8260B
Bromobenzene	82	(70 - 130)	SW846 8260B
1,3,5-Trimethylbenzene	91	(70 - 130)	SW846 8260B
2-Chlorotoluene	86	(70 - 130)	SW846 8260B
4-Chlorotoluene	88	(70 - 130)	SW846 8260B
tert-Butylbenzene	88	(70 - 130)	SW846 8260B
1,2,4-Trimethylbenzene	88	(70 - 130)	SW846 8260B
sec-Butylbenzene	93	(70 - 130)	SW846 8260B
p-Isopropyltoluene	85	(70 - 130)	SW846 8260B
1,3-Dichlorobenzene	82	(70 - 130)	SW846 8260B
1,4-Dichlorobenzene	83	(70 - 130)	SW846 8260B
n-Butylbenzene	91	(70 - 130)	SW846 8260B
1,2-Dichlorobenzene	83	(70 - 130)	SW846 8260B
1,2-Dibromo-3-chloro-propane	79	(60 - 140)	SW846 8260B
1,2,4-Trichloro-benzene	79	(70 - 130)	SW846 8260B
Hexachlorobutadiene	82	(70 - 130)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLCD41AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-561

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2,3-Trichlorobenzene	81	(70 - 130)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	98	(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.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLCD41AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-561
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Dichlorodifluoromethane	10.0	10.4	ug/L	104	SW846 8260B
Chloromethane	10.0	12.5	ug/L	125	SW846 8260B
Chloroethane	10.0	12.8	ug/L	128	SW846 8260B
Bromomethane	10.0	15.7 a	ug/L	157	SW846 8260B
t-Butanol	50.0	66.1	ug/L	132	SW846 8260B
Trichlorofluoromethane	10.0	11.2	ug/L	112	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	10.0	11.0	ug/L	110	SW846 8260B
1,1-Dichloroethene	**10.0**	**12.0**	**ug/L**	**120**	**SW846 8260B**
Methylene chloride	10.0	10.6	ug/L	106	SW846 8260B
Methyl tert-butyl ether	10.0	10.2	ug/L	102	SW846 8260B
Carbon disulfide	50.0	60.9	ug/L	122	SW846 8260B
Acetone	50.0	62.0	ug/L	124	SW846 8260B
trans-1,2-Dichloroethene	10.0	10.8	ug/L	108	SW846 8260B
1,1-Dichloroethane	10.0	10.7	ug/L	107	SW846 8260B
Dibromomethane	10.0	9.16	ug/L	92	SW846 8260B
2,2-Dichloropropane	10.0	9.46	ug/L	95	SW846 8260B
cis-1,2-Dichloroethene	10.0	10.0	ug/L	100	SW846 8260B
Chloroform	10.0	8.90	ug/L	89	SW846 8260B
Bromochloromethane	10.0	7.95	ug/L	80	SW846 8260B
1,1,1-Trichloroethane	10.0	9.33	ug/L	93	SW846 8260B
2-Butanone	50.0	50.4	ug/L	101	SW846 8260B
1,1-Dichloropropene	10.0	9.41	ug/L	94	SW846 8260B
1,2-Dichloropropane	10.0	10.2	ug/L	102	SW846 8260B
Carbon tetrachloride	10.0	9.42	ug/L	94	SW846 8260B
1,3-Dichloropropane	10.0	9.44	ug/L	94	SW846 8260B
1,2-Dibromoethane	10.0	8.78	ug/L	88	SW846 8260B
cis-1,3-Dichloropropene	10.0	9.80	ug/L	98	SW846 8260B
Benzene	**10.0**	**9.57**	**ug/L**	**96**	**SW846 8260B**
trans-1,3-Dichloropropene	10.0	9.17	ug/L	92	SW846 8260B
Trichloroethene	**10.0**	**8.88**	**ug/L**	**89**	**SW846 8260B**
Bromodichloromethane	10.0	9.94	ug/L	99	SW846 8260B
Isopropyl ether	10.0	11.3	ug/L	113	SW846 8260B
4-Methyl-2-pentanone	50.0	52.6	ug/L	105	SW846 8260B
Naphthalene	10.0	8.16	ug/L	82	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLCD41AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-561

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Toluene	**10.0**	**9.39**	**ug/L**	**94**	**SW846 8260B**
1,1,2-Trichloroethane	10.0	9.24	ug/L	92	SW846 8260B
Tert-amyl methyl ether	10.0	9.21	ug/L	92	SW846 8260B
Tert-butyl ethyl ether	10.0	10.0	ug/L	100	SW846 8260B
1,2-Dichloroethane	10.0	9.37	ug/L	94	SW846 8260B
Tetrachloroethene	10.0	8.62	ug/L	86	SW846 8260B
2-Hexanone	50.0	53.6	ug/L	107	SW846 8260B
Dibromochloromethane	10.0	9.22	ug/L	92	SW846 8260B
Chlorobenzene	**10.0**	**8.86**	**ug/L**	**89**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	10.0	8.86	ug/L	89	SW846 8260B
Ethylbenzene	10.0	9.31	ug/L	93	SW846 8260B
m-Xylene & p-Xylene	20.0	18.8	ug/L	94	SW846 8260B
Vinyl chloride	10.0	11.3	ug/L	113	SW846 8260B
o-Xylene	10.0	9.07	ug/L	91	SW846 8260B
Styrene	10.0	9.21	ug/L	92	SW846 8260B
Bromoform	10.0	8.39	ug/L	84	SW846 8260B
Isopropylbenzene	10.0	8.27	ug/L	83	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	8.90	ug/L	89	SW846 8260B
1,2,3-Trichloropropane	10.0	8.38	ug/L	84	SW846 8260B
n-Propylbenzene	10.0	9.07	ug/L	91	SW846 8260B
Bromobenzene	10.0	8.25	ug/L	82	SW846 8260B
1,3,5-Trimethylbenzene	10.0	9.11	ug/L	91	SW846 8260B
2-Chlorotoluene	10.0	8.58	ug/L	86	SW846 8260B
4-Chlorotoluene	10.0	8.80	ug/L	88	SW846 8260B
tert-Butylbenzene	10.0	8.76	ug/L	88	SW846 8260B
1,2,4-Trimethylbenzene	10.0	8.84	ug/L	88	SW846 8260B
sec-Butylbenzene	10.0	9.29	ug/L	93	SW846 8260B
p-Isopropyltoluene	10.0	8.47	ug/L	85	SW846 8260B
1,3-Dichlorobenzene	10.0	8.24	ug/L	82	SW846 8260B
1,4-Dichlorobenzene	10.0	8.34	ug/L	83	SW846 8260B
n-Butylbenzene	10.0	9.13	ug/L	91	SW846 8260B
1,2-Dichlorobenzene	10.0	8.27	ug/L	83	SW846 8260B
1,2-Dibromo-3-chloro-propane	10.0	7.92	ug/L	79	SW846 8260B
1,2,4-Trichloro-benzene	10.0	7.88	ug/L	79	SW846 8260B
Hexachlorobutadiene	10.0	8.15	ug/L	82	SW846 8260B

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BOE-C6-0104961

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HLCD41AC **Matrix.....:** WATER
LCS Lot-Sample#: E5I230000-561

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,2,3-Trichlorobenzene	10.0	8.06	ug/L	81	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	98	(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 #...: E5I210421 **Work Order #...:** HK4J21AC-MS **Matrix.....:** W
MS Lot-Sample #: E5I210421-001 HK4J21AD-MSD
Date Sampled...: 09/20/05 11:25 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5266517

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**93**	**(65 - 135)**			**SW846 8260B**
	108	**(65 - 135)**	**14**	**(0-25)**	**SW846 8260B**
Benzene	**89**	**(75 - 125)**			**SW846 8260B**
	94	**(75 - 125)**	**5.8**	**(0-25)**	**SW846 8260B**
Trichloroethene	**70 a**	**(75 - 135)**			**SW846 8260B**
	78	**(75 - 135)**	**4.4**	**(0-25)**	**SW846 8260B**
Toluene	**87**	**(75 - 125)**			**SW846 8260B**
	92	**(75 - 125)**	**5.5**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**87**	**(75 - 125)**			**SW846 8260B**
	91	**(75 - 125)**	**5.4**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
	94	(75 - 130)
1,2-Dichloroethane-d4	88	(65 - 135)
	89	(65 - 135)
Toluene-d8	96	(80 - 130)
	95	(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 #...: E5I210421 **Work Order #...:** HK4J21AC-MS **Matrix.....:** W
MS Lot-Sample #: E5I210421-001 HK4J21AD-MSD
Date Sampled...: 09/20/05 11:25 **Date Received..:** 09/21/05 17:10
Prep Date.....: 09/22/05 **Analysis Date..:** 09/22/05
Prep Batch #...: 5266517

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**0.73**	**10.0**	**10.0**	**ug/L**	**93**		**SW846 8260B**
	0.73	**10.0**	**11.6**	**ug/L**	**108**	**14**	**SW846 8260B**
Benzene	**ND**	**10.0**	**8.88**	**ug/L**	**89**		**SW846 8260B**
	ND	**10.0**	**9.41**	**ug/L**	**94**	**5.8**	**SW846 8260B**
Trichloroethene	**10**	**10.0**	**17.5**	**ug/L**	**70 a**		**SW846 8260B**
	10	**10.0**	**18.3**	**ug/L**	**78**	**4.4**	**SW846 8260B**
Toluene	**ND**	**10.0**	**8.73**	**ug/L**	**87**		**SW846 8260B**
	ND	**10.0**	**9.22**	**ug/L**	**92**	**5.5**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**8.66**	**ug/L**	**87**		**SW846 8260B**
	ND	**10.0**	**9.14**	**ug/L**	**91**	**5.4**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
	94	(75 - 130)
1,2-Dichloroethane-d4	88	(65 - 135)
	89	(65 - 135)
Toluene-d8	96	(80 - 130)
	95	(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 #...: E5I210421 **Work Order #...:** HK0861AC-MS **Matrix.....:** WATER
MS Lot-Sample #: E5I200331-005 HK0861AD-MSD
Date Sampled...: 09/19/05 17:21 **Date Received..:** 09/20/05 12:15
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**100**	**(65 - 135)**			**SW846 8260B**
	103	**(65 - 135)**	**2.2**	**(0-25)**	**SW846 8260B**
Benzene	**96**	**(75 - 125)**			**SW846 8260B**
	93	**(75 - 125)**	**3.3**	**(0-25)**	**SW846 8260B**
Trichloroethene	**0.0 MSB**	**(75 - 135)**			**SW846 8260B**
	0.0 MSB	**(75 - 135)**	**0.0**	**(0-25)**	**SW846 8260B**
Toluene	**92**	**(75 - 125)**			**SW846 8260B**
	89	**(75 - 125)**	**2.6**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**90**	**(75 - 125)**			**SW846 8260B**
	87	**(75 - 125)**	**2.8**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
	94	(75 - 130)
1,2-Dichloroethane-d4	93	(65 - 135)
	91	(65 - 135)
Toluene-d8	97	(80 - 130)
	97	(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 DATA REPORT

GC/MS Volatiles

Client Lot #...: E5I210421 **Work Order #...:** HK0861AC-MS **Matrix.....:** WATER
MS Lot-Sample #: E5I200331-005 HK0861AD-MSD
Date Sampled...: 09/19/05 17:21 **Date Received..:** 09/20/05 12:15
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**1100**	**2000**	**3080**	**ug/L**	**100**		**SW846 8260B**
	1100	**2000**	**3150**	**ug/L**	**103**	**2.2**	**SW846 8260B**
Benzene	**ND**	**2000**	**1910**	**ug/L**	**96**		**SW846 8260B**
	ND	**2000**	**1850**	**ug/L**	**93**	**3.3**	**SW846 8260B**
Trichloroethene	**16000**	**2000**		**ug/L**	**0.0**		**SW846 8260B**
	Qualifiers:	MSB					
	16000	**2000**		**ug/L**	**0.0**	**0.0**	**SW846 8260B**
	Qualifiers:	MSB					
Toluene	**ND**	**2000**	**1840**	**ug/L**	**92**		**SW846 8260B**
	ND	**2000**	**1790**	**ug/L**	**89**	**2.6**	**SW846 8260B**
Chlorobenzene	**ND**	**2000**	**1800**	**ug/L**	**90**		**SW846 8260B**
	ND	**2000**	**1750**	**ug/L**	**87**	**2.8**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
	94	(75 - 130)
1,2-Dichloroethane-d4	93	(65 - 135)
	91	(65 - 135)
Toluene-d8	97	(80 - 130)
	97	(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.

PHYSICAL PROPERTIES DATA

PROJECT NAME: N/A
PROJECT NO: E5H180251

		METHODOLOGY:	API RP40	ASTM D5084	
				25.0 PSI CONFINING STRESS	
SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENT. (1)	TOTAL POROSITY, % Vb	NATIVE STATE EFFECTIVE PERMEABILITY TO WATER (2,3) (millidarcy)	NATIVE STATE EFFECTIVE HYDRAULIC CONDUCTIVITY (2,3) (cm/s)
MWG004-SS074-0001	N/A	V	32.1	8.77	8.43E-06
MWG004-SS099-0001	N/A	V	48.5	0.816	7.87E-07
MWG004-SS128-0001	N/A	V	39.0	882	8.51E-04
MWG004-SS144-0001	N/A	V	50.2	0.346	3.34E-07

(1) Sample Orientation: H = horizontal; V = vertical (2) Native State = As received with pore fluids in place (3) Permeability to water and conductivity measured at saturated conditions Vb = Bulk Volume, cc

ORGANIC CARBON DATA

(METHODOLOGY: WALKLEY-BLACK)

PROJECT NAME: N/A
PROJECT NO: E5H180251

SAMPLE ID.	DEPTH, ft.	MATRIX	TOTAL ORGANIC CARBON (mg/kg)
MWG004-SS074-0001	N/A	SOIL	<100
MWG004-SS099-0001	N/A	SOIL	1200
MWG004-SS128-0001	N/A	SOIL	670
MWG004-SS144-0001	N/A	SOIL	2750

PTS Laboratories, Inc.

STL, Inc.
PTS File No: 35520

PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: N/A
PROJECT NO: E5H180251

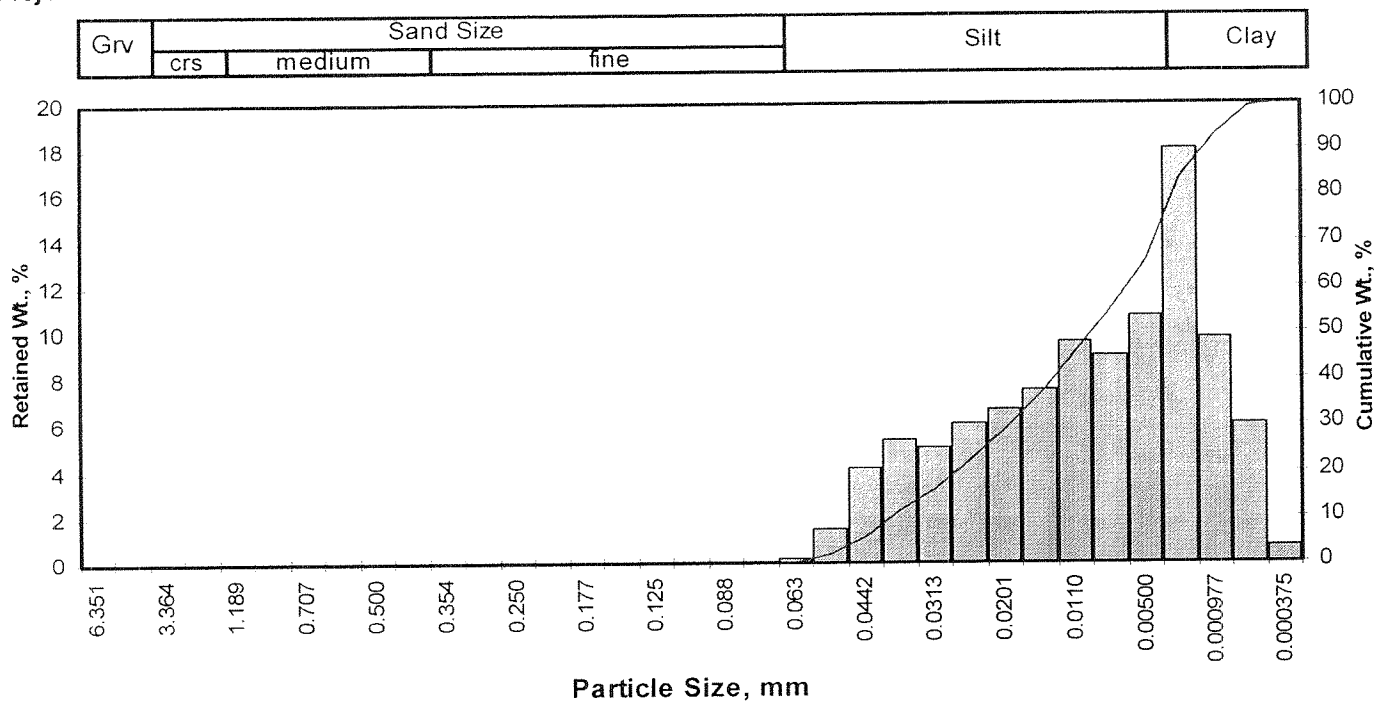
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
MWG004-SS074-0001	N/A	Silt	0.009	0.00	0.00	0.00	0.00	65.53	34.47	100.00
MWG004-SS099-0001	N/A	Silt	0.010	0.00	0.00	0.00	0.00	68.49	31.51	100.00
MWG004-SS128-0001	N/A	Medium sand	0.411	0.00	0.00	48.38	45.00	4.53	2.09	6.62
MWG004-SS144-0001	N/A	Silt	0.027	0.00	0.00	0.01	39.39	34.33	26.27	60.60

(1) Based on Mean from Trask

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35520
Project:	N/A	**Sample ID:**	MWG004-SS074-0001
Project No:	E5H180251	**Depth, ft:**	N/A



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.00	0.00	0.00
0.0049	0.125	3.00	120	0.00	0.00	0.00
0.0041	0.105	3.25	140	0.00	0.00	0.00
0.0035	0.088	3.50	170	0.00	0.00	0.00
0.0029	0.074	3.75	200	0.00	0.00	0.00
0.0025	0.063	4.00	230	0.15	0.15	0.15
0.0021	0.053	4.25	270	1.48	1.48	1.63
0.00174	0.0442	4.50	325	4.13	4.13	5.76
0.00146	0.0372	4.75	400	5.36	5.36	11.12
0.00123	0.0313	5.00	450	5.04	5.04	16.16
0.000986	0.0250	5.32	500	6.02	6.02	22.18
0.000790	0.0201	5.64	635	6.62	6.62	28.80
0.000615	0.0156	6.00		7.46	7.46	36.26
0.000435	0.0110	6.50		9.57	9.57	45.84
0.000308	0.00781	7.00		8.99	8.99	54.83
0.000197	0.00500	7.65		10.70	10.70	65.53
0.000077	0.00195	9.00		18.00	18.00	83.53
0.000038	0.000977	10.00		9.78	9.78	93.31
0.000019	0.000488	11.00		6.04	6.04	99.35
0.000015	0.000375	11.38		0.65	0.65	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than

Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	4.45	0.0018	0.046
10	4.70	0.0015	0.039
16	4.99	0.0012	0.031
25	5.46	0.0009	0.023
40	6.20	0.0005	0.014
50	6.73	0.0004	0.009
60	7.31	0.0002	0.006
75	8.36	0.0001	0.003
84	9.05	0.0001	0.002
90	9.66	0.0000	0.001
95	10.28	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.73	6.73	6.73
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.009	0.009	0.009
Mean, phi	6.27	7.02	6.92
Mean, in.	0.0005	0.0003	0.0003
Mean, mm	0.013	0.008	0.008
Sorting	2.734	2.028	1.897
Skewness	0.885	0.142	0.180
Kurtosis	0.264	0.436	0.823
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	0.00
Silt	>0.005 mm	65.53
Clay	<0.005 mm	34.47
	Total	**100**

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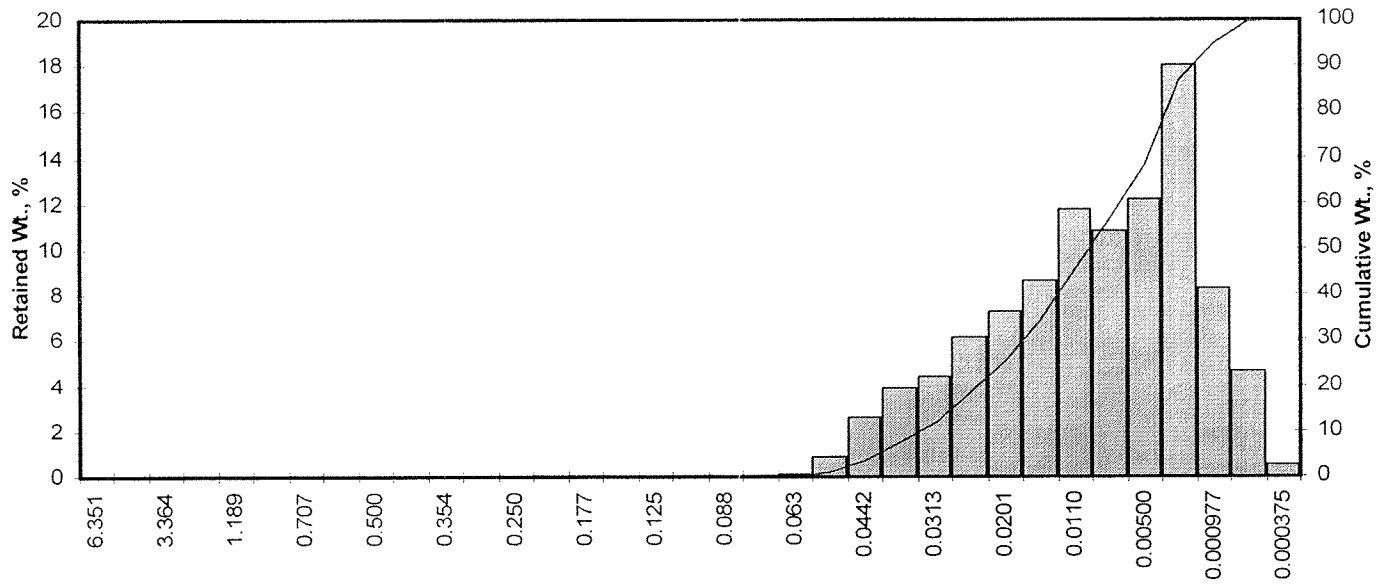
PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35520
Project:	N/A	**Sample ID:**	MWG004-SS099-0001
Project No:	E5H180251	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.00	0.00	0.00
0.0049	0.125	3.00	120	0.00	0.00	0.00
0.0041	0.105	3.25	140	0.00	0.00	0.00
0.0035	0.088	3.50	170	0.00	0.00	0.00
0.0029	0.074	3.75	200	0.00	0.00	0.00
0.0025	0.063	4.00	230	0.08	0.08	0.08
0.0021	0.053	4.25	270	0.83	0.83	0.91
0.00174	0.0442	4.50	325	2.61	2.61	3.53
0.00146	0.0372	4.75	400	3.91	3.91	7.44
0.00123	0.0313	5.00	450	4.38	4.38	11.83
0.000986	0.0250	5.32	500	6.14	6.15	17.97
0.000790	0.0201	5.64	635	7.24	7.25	25.22
0.000615	0.0156	6.00		8.62	8.63	33.85
0.000435	0.0110	6.50		11.70	11.71	45.56
0.000308	0.00781	7.00		10.80	10.81	56.37
0.000197	0.00500	7.65		12.10	12.11	68.49
0.000077	0.00195	9.00		18.00	18.02	86.51
0.000038	0.000977	10.00		8.30	8.31	94.81
0.000019	0.000488	11.00		4.69	4.70	99.51
0.000015	0.000375	11.38		0.49	0.49	100.00
TOTALS				**99.90**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	4.59	0.0016	0.041
10	4.90	0.0013	0.034
16	5.22	0.0011	0.027
25	5.63	0.0008	0.020
40	6.26	0.0005	0.013
50	6.71	0.0004	0.010
60	7.19	0.0003	0.007
75	8.13	0.0001	0.004
84	8.81	0.0001	0.002
90	9.42	0.0001	0.001
95	10.04	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.71	6.71	6.71
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.010	0.010	0.010
Mean, phi	6.40	7.01	6.91
Mean, in.	0.0005	0.0003	0.0003
Mean, mm	0.012	0.008	0.008
Sorting	2.382	1.797	1.724
Skewness	0.884	0.172	0.198
Kurtosis	0.259	0.515	0.891
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

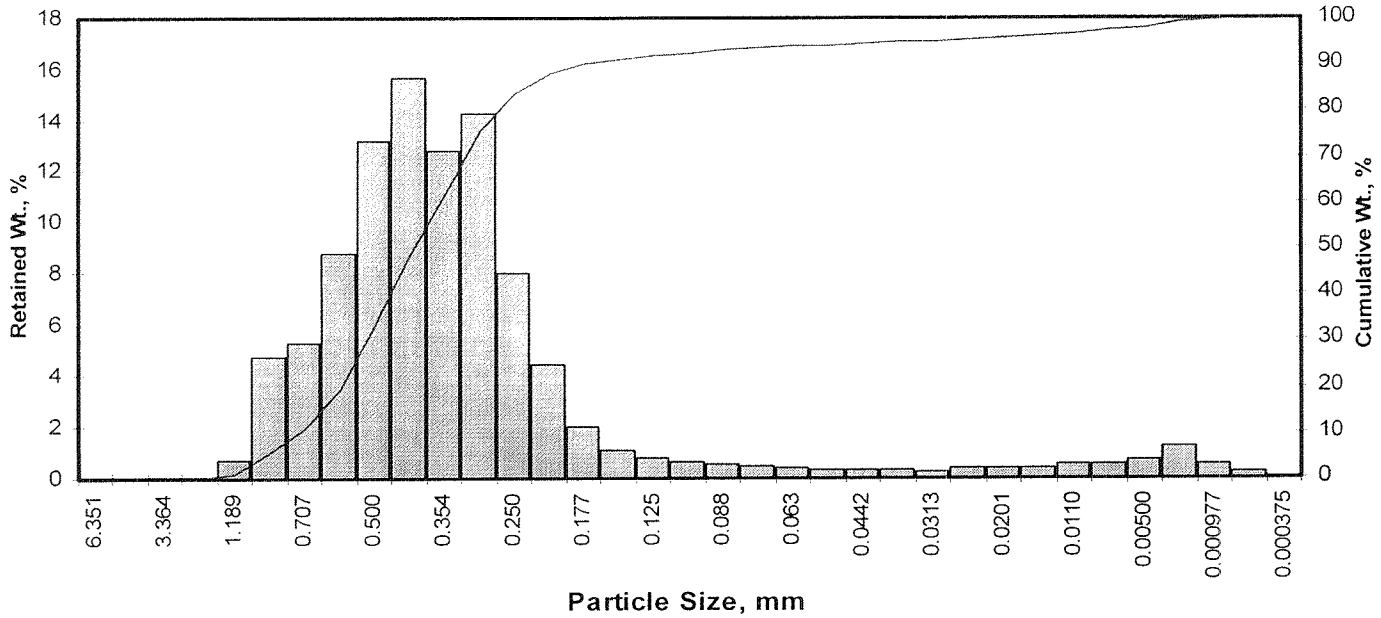
Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	0.00
Silt	>0.005 mm	68.49
Clay	<0.005 mm	31.51
	Total	**100**

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35520
Project:	N/A	**Sample ID:**	MWG004-SS128-0001
Project No:	E5H180251	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.73	0.73	0.73
0.0331	0.841	0.25	20	4.73	4.73	5.46
0.0278	0.707	0.50	25	5.26	5.26	10.71
0.0234	0.595	0.75	30	8.79	8.78	19.50
0.0197	0.500	1.00	35	13.20	13.19	32.69
0.0166	0.420	1.25	40	15.70	15.69	48.38
0.0139	0.354	1.50	45	12.80	12.79	61.17
0.0117	0.297	1.75	50	14.30	14.29	75.46
0.0098	0.250	2.00	60	8.01	8.00	83.47
0.0083	0.210	2.25	70	4.41	4.41	87.87
0.0070	0.177	2.50	80	2.05	2.05	89.92
0.0059	0.149	2.75	100	1.06	1.06	90.98
0.0049	0.125	3.00	120	0.76	0.76	91.74
0.0041	0.105	3.25	140	0.65	0.65	92.39
0.0035	0.088	3.50	170	0.54	0.54	92.93
0.0029	0.074	3.75	200	0.45	0.45	93.38
0.0025	0.063	4.00	230	0.40	0.40	93.78
0.0021	0.053	4.25	270	0.32	0.32	94.10
0.00174	0.0442	4.50	325	0.28	0.28	94.38
0.00146	0.0372	4.75	400	0.28	0.28	94.66
0.00123	0.0313	5.00	450	0.27	0.27	94.93
0.000986	0.0250	5.32	500	0.35	0.35	95.28
0.000790	0.0201	5.64	635	0.37	0.37	95.65
0.000615	0.0156	6.00		0.42	0.42	96.07
0.000435	0.0110	6.50		0.57	0.57	96.64
0.000308	0.00781	7.00		0.56	0.56	97.20
0.000197	0.00500	7.65		0.71	0.71	97.91
0.000077	0.00195	9.00		1.24	1.24	99.15
0.000038	0.000977	10.00		0.57	0.57	99.72
0.000019	0.000488	11.00		0.26	0.26	99.98
0.000015	0.000375	11.38		0.02	0.02	100.00
TOTALS				**100.10**	**100.00**	**100.00**

Cumulative Weight Percent greater than

Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	0.20	0.0342	0.870
10	0.47	0.0285	0.724
16	0.65	0.0251	0.637
25	0.85	0.0218	0.553
40	1.12	0.0182	0.461
50	1.28	0.0162	0.411
60	1.48	0.0141	0.359
75	1.74	0.0118	0.299
84	2.03	0.0096	0.245
90	2.52	0.0069	0.175
95	5.06	0.0012	0.030

Measure	Trask	Inman	Folk-Ward
Median, phi	1.28	1.28	1.28
Median, in.	0.0162	0.0162	0.0162
Median, mm	0.411	0.411	0.411
Mean, phi	1.23	1.34	1.32
Mean, in.	0.0168	0.0155	0.0158
Mean, mm	0.426	0.395	0.400
Sorting	1.360	0.690	1.082
Skewness	0.989	0.085	0.320
Kurtosis	0.231	2.524	2.245

Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	48.38
Fine Sand	200	45.00
Silt	>0.005 mm	4.53
Clay	<0.005 mm	2.09
	Total	**100**

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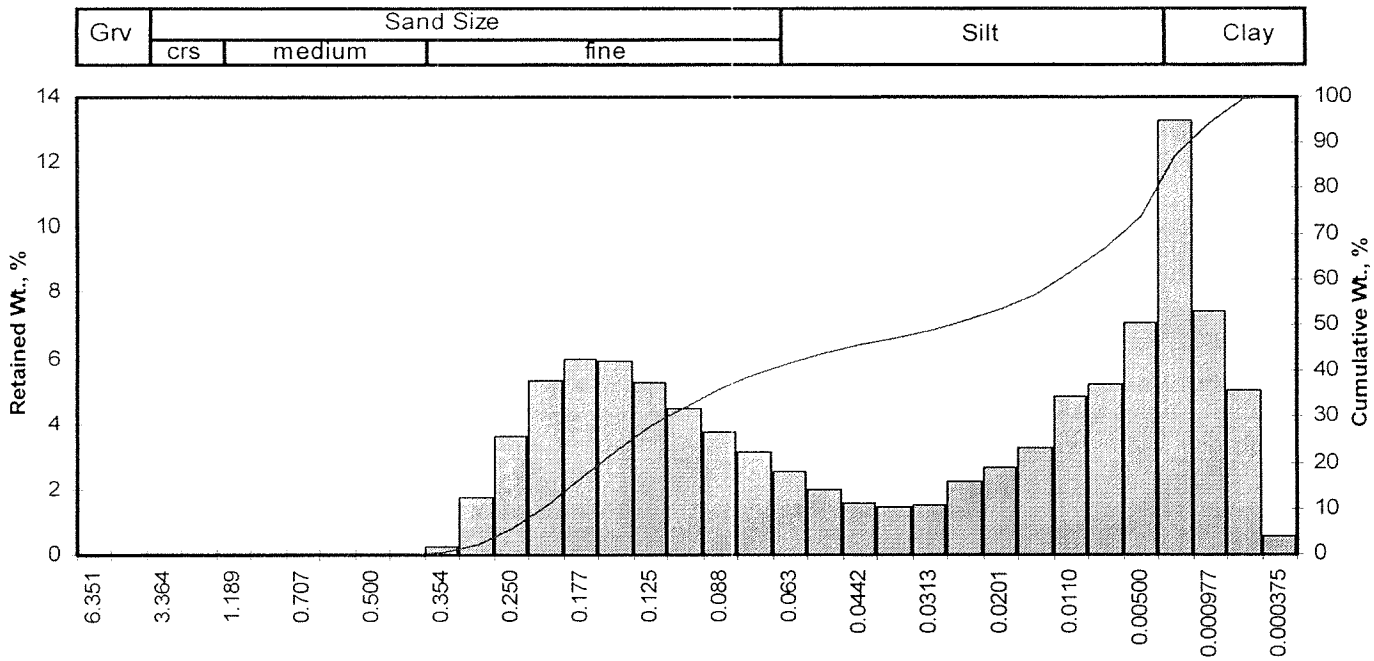
PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35520
Project:	N/A	**Sample ID:**	MWG004-SS144-0001
Project No:	E5H180251	**Depth, ft:**	N/A



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.01	0.01	0.01
0.0139	0.354	1.50	45	0.23	0.23	0.24
0.0117	0.297	1.75	50	1.77	1.77	2.01
0.0098	0.250	2.00	60	3.63	3.63	5.64
0.0083	0.210	2.25	70	5.33	5.33	10.97
0.0070	0.177	2.50	80	5.99	5.99	16.96
0.0059	0.149	2.75	100	5.89	5.89	22.85
0.0049	0.125	3.00	120	5.24	5.24	28.08
0.0041	0.105	3.25	140	4.46	4.46	32.54
0.0035	0.088	3.50	170	3.73	3.73	36.27
0.0029	0.074	3.75	200	3.13	3.13	39.40
0.0025	0.063	4.00	230	2.55	2.55	41.95
0.0021	0.053	4.25	270	2.00	2.00	43.95
0.00174	0.0442	4.50	325	1.59	1.59	45.54
0.00146	0.0372	4.75	400	1.45	1.45	46.99
0.00123	0.0313	5.00	450	1.53	1.53	48.52
0.000986	0.0250	5.32	500	2.26	2.26	50.78
0.000790	0.0201	5.64	635	2.67	2.67	53.45
0.000615	0.0156	6.00		3.23	3.23	56.67
0.000435	0.0110	6.50		4.80	4.80	61.47
0.000308	0.00781	7.00		5.20	5.20	66.67
0.000197	0.00500	7.65		7.06	7.06	73.73
0.000077	0.00195	9.00		13.30	13.30	87.02
0.000038	0.000977	10.00		7.42	7.42	94.44
0.000019	0.000488	11.00		5.00	5.00	99.44
0.000015	0.000375	11.38		0.56	0.56	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	1.96	0.0101	0.258
10	2.20	0.0085	0.217
16	2.46	0.0072	0.182
25	2.85	0.0054	0.138
40	3.81	0.0028	0.071
50	5.21	0.0011	0.027
60	6.35	0.0005	0.012
75	7.77	0.0002	0.005
84	8.69	0.0001	0.002
90	9.40	0.0001	0.001
95	10.11	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.21	5.21	5.21
Median, in.	0.0011	0.0011	0.0011
Median, mm	0.027	0.027	0.027
Mean, phi	3.81	5.58	5.45
Mean, in.	0.0028	0.0008	0.0009
Mean, mm	0.071	0.021	0.023
Sorting	5.506	3.116	2.794
Skewness	0.931	0.117	0.160
Kurtosis	0.311	0.309	0.679
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.01
Fine Sand	200	39.39
Silt	>0.005 mm	34.33
Clay	<0.005 mm	26.27
	Total	**100**

PHYSICAL PROPERTIES DATA

PROJECT NAME: N/A
PROJECT NO: E5H260232

METHODOLOGY: **API RP40** **ASTM D5084**

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENT. (1)	TOTAL POROSITY, % Vb	25.0 PSI CONFINING STRESS: NATIVE STATE EFFECTIVE PERMEABILITY TO WATER (2,3) (millidarcy)	25.0 PSI CONFINING STRESS: NATIVE STATE EFFECTIVE HYDRAULIC CONDUCTIVITY (2,3) (cm/s)
MWG004_SS172_0001	N/A	V	43.0	207	2.02E-04
MWG003_SS088_0001	N/A	V	41.1	164	1.58E-04
MWG003_SS108_0001	N/A	V	44.5	7.63	7.38E-06
MWG003_SS113_0001	N/A	V	38.4	224	2.20E-04
MWG003_SS146_0001	N/A	V	56.3	1.08	1.06E-06
MWG003_SS165_0001	N/A	V	43.6	745	7.19E-04

(1) Sample Orientation: H = horizontal; V = vertical (2) Native State = As received with pore fluids in place (3) Permeability to water and conductivity measured at saturated conditions Vb = Bulk Volume, cc

ORGANIC CARBON DATA

(METHODOLOGY: WALKLEY-BLACK)

PROJECT NAME: N/A
PROJECT NO: E5H260232

SAMPLE ID.	DEPTH, ft.	MATRIX	TOTAL ORGANIC CARBON (mg/kg)
MWG004_SS172_0001	N/A	SOIL	430
MWG003_SS088_0001	N/A	SOIL	490
MWG003_SS108_0001	N/A	SOIL	280
MWG003_SS113_0001	N/A	SOIL	270
MWG003_SS146_0001	N/A	SOIL	600
MWG003_SS165_0001	N/A	SOIL	130

PHYSICAL PROPERTIES DATA

PROJECT NAME: N/A
PROJECT NO: E5H260232

		METHODOLOGY:	API RP40	ASTM D5084	
				25.0 PSI CONFINING STRESS	
SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENT. (1)	TOTAL POROSITY, % Vb	NATIVE STATE EFFECTIVE PERMEABILITY TO WATER (2,3) (millidarcy)	NATIVE STATE EFFECTIVE HYDRAULIC CONDUCTIVITY (2,3) (cm/s)
MWG004_SS172_0001	N/A	V	43.0	207	2.02E-04
MWG003_SS088_0001	N/A	V	41.1	164	1.58E-04
MWG003_SS108_0001	N/A	V	44.5	7.63	7.38E-06
MWG003_SS113_0001	N/A	V	38.4	224	2.20E-04
MWG003_SS146_0001	N/A	V	56.3	1.08	1.06E-06
MWG003_SS165_0001	N/A	V	43.6	745	7.19E-04

(1) Sample Orientation: H = horizontal; V = vertical (2) Native State = As received with pore fluids in place (3) Permeability to water and conductivity measured at saturated conditions Vb = Bulk Volume, cc

ORGANIC CARBON DATA

(METHODOLOGY: WALKLEY-BLACK)

PROJECT NAME: N/A
PROJECT NO: E5H260232

SAMPLE ID.	DEPTH, ft.	MATRIX	TOTAL ORGANIC CARBON (mg/kg)
MWG004_SS172_0001	N/A	SOIL	430
MWG003_SS088_0001	N/A	SOIL	490
MWG003_SS108_0001	N/A	SOIL	280
MWG003_SS113_0001	N/A	SOIL	270
MWG003_SS146_0001	N/A	SOIL	600
MWG003_SS165_0001	N/A	SOIL	130

PTS Laboratories, Inc.

STL, Inc.
PTS File No: 35537

PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: N/A
PROJECT NO: E5H260232

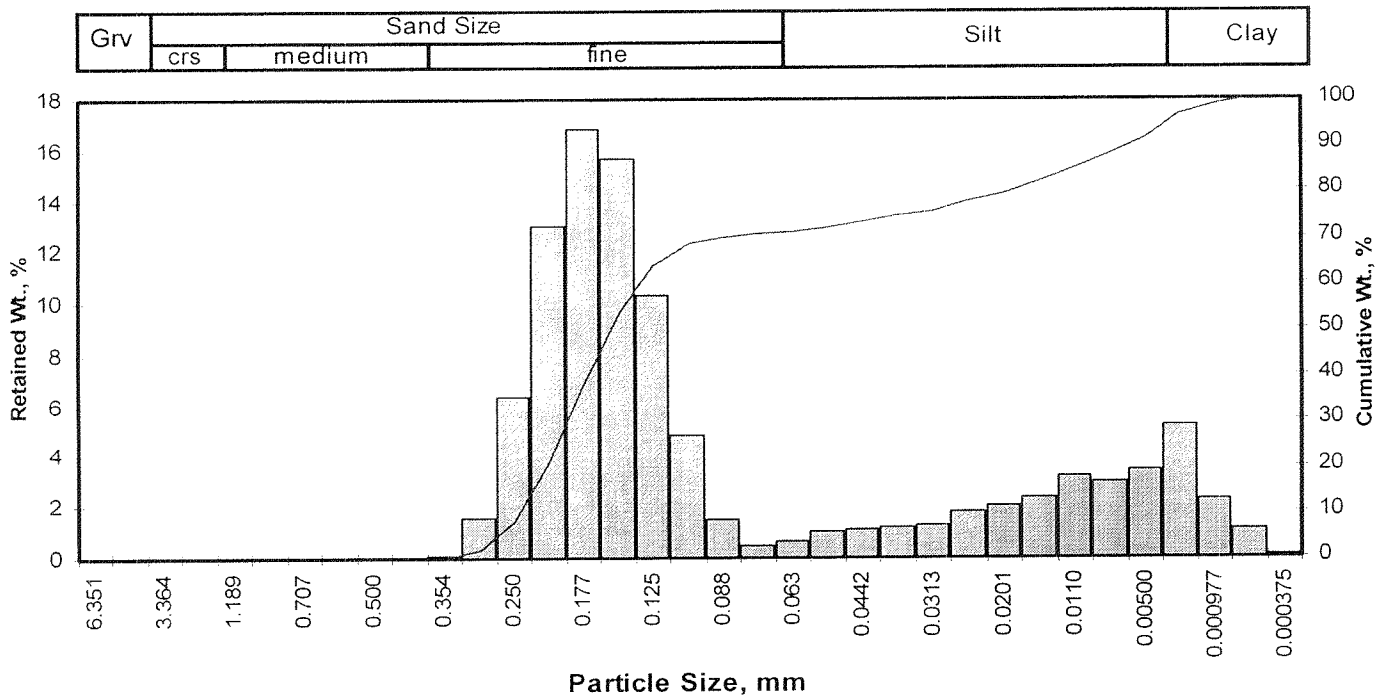
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
MWG003_SS088_0001	N/A	Fine sand	0.154	0.00	0.00	0.00	70.54	20.77	8.69	29.46
MWG004_SS108_0001	N/A	Silt	0.043	0.00	0.00	0.01	23.09	69.08	7.83	76.90
MWG004_SS113_0001	N/A	Medium sand	0.488	0.00	0.00	62.68	31.09	3.81	2.42	6.23
MWG004_SS146_0001	N/A	Silt	0.005	0.00	0.00	0.00	4.72	45.13	50.15	95.28
MWG004_SS165_0001	N/A	Fine sand	0.310	0.00	0.00	38.36	50.07	9.39	2.18	11.57
MWG004_SS172_0001	N/A	Fine sand	0.107	0.00	0.00	2.10	59.00	30.93	7.97	38.90

(1) Based on Mean from Trask

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35537
Project:	N/A	**Sample ID:**	MWG003_SS088_0001
Project No:	E5H260232	**Depth, ft:**	N/A



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.04	0.04	0.04
0.0117	0.297	1.75	50	1.53	1.53	1.57
0.0098	0.250	2.00	60	6.38	6.38	7.95
0.0083	0.210	2.25	70	13.00	13.00	20.95
0.0070	0.177	2.50	80	16.80	16.80	37.75
0.0059	0.149	2.75	100	15.70	15.70	53.45
0.0049	0.125	3.00	120	10.30	10.30	63.75
0.0041	0.105	3.25	140	4.82	4.82	68.57
0.0035	0.088	3.50	170	1.47	1.47	70.04
0.0029	0.074	3.75	200	0.50	0.50	70.54
0.0025	0.063	4.00	230	0.63	0.63	71.17
0.0021	0.053	4.25	270	0.97	0.97	72.14
0.00174	0.0442	4.50	325	1.10	1.10	73.24
0.00146	0.0372	4.75	400	1.14	1.14	74.38
0.00123	0.0313	5.00	450	1.24	1.24	75.62
0.000986	0.0250	5.32	500	1.80	1.80	77.42
0.000790	0.0201	5.64	635	2.03	2.03	79.45
0.000615	0.0156	6.00		2.33	2.33	81.78
0.000435	0.0110	6.50		3.17	3.17	84.95
0.000308	0.00781	7.00		2.96	2.96	87.91
0.000197	0.00500	7.65		3.40	3.40	91.31
0.000077	0.00195	9.00		5.22	5.22	96.53
0.000038	0.000977	10.00		2.27	2.27	98.80
0.000019	0.000488	11.00		1.09	1.09	99.89
0.000015	0.000375	11.38		0.11	0.11	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than

Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	1.88	0.0107	0.271
10	2.04	0.0096	0.243
16	2.15	0.0088	0.225
25	2.31	0.0079	0.202
40	2.54	0.0068	0.172
50	2.70	0.0061	0.154
60	2.91	0.0052	0.133
75	4.88	0.0013	0.034
84	6.35	0.0005	0.012
90	7.40	0.0002	0.006
95	8.60	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	2.70	2.70	2.70
Median, in.	0.0061	0.0061	0.0061
Median, mm	0.154	0.154	0.154
Mean, phi	3.08	4.25	3.73
Mean, in.	0.0046	0.0021	0.0030
Mean, mm	0.118	0.052	0.075
Sorting	2.432	2.098	2.067
Skewness	0.537	0.742	0.751
Kurtosis	0.353	0.601	1.074

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)

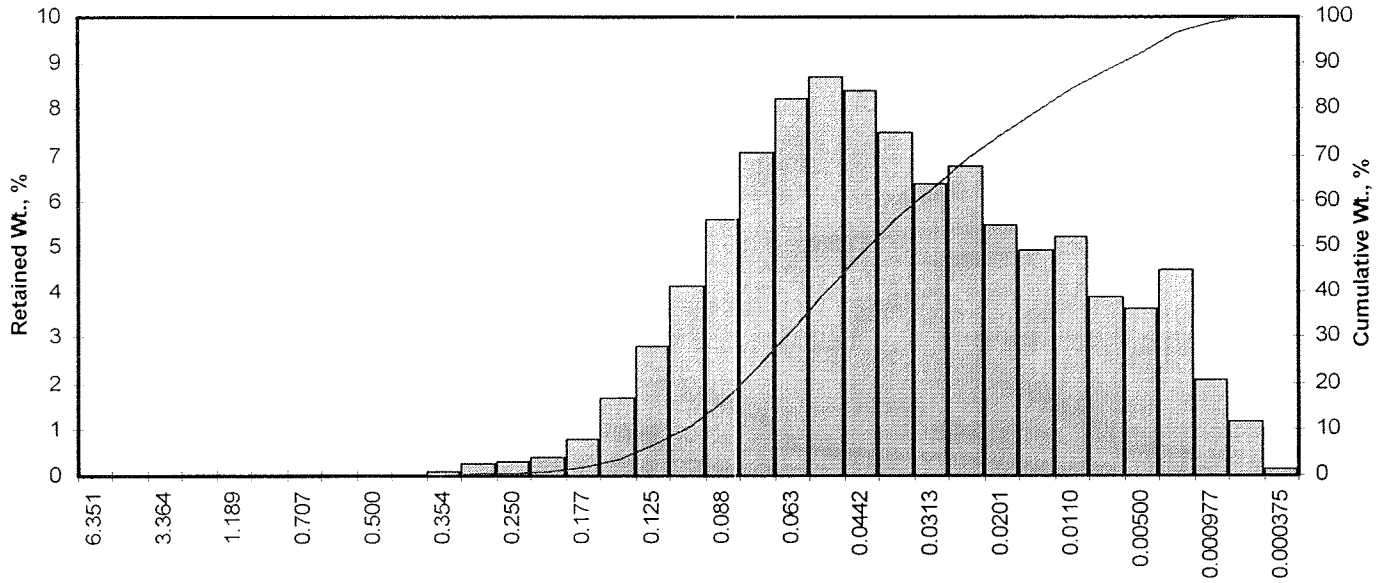
Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	70.54
Silt	>0.005 mm	20.77
Clay	<0.005 mm	8.69
	Total	**100**

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35537
Project:	N/A	**Sample ID:**	MWG004_SS108_0001
Project No:	E5H260232	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.01	0.01	0.01
0.0139	0.354	1.50	45	0.07	0.07	0.08
0.0117	0.297	1.75	50	0.25	0.25	0.33
0.0098	0.250	2.00	60	0.29	0.29	0.62
0.0083	0.210	2.25	70	0.40	0.40	1.02
0.0070	0.177	2.50	80	0.78	0.78	1.80
0.0059	0.149	2.75	100	1.66	1.66	3.46
0.0049	0.125	3.00	120	2.81	2.81	6.27
0.0041	0.105	3.25	140	4.15	4.15	10.42
0.0035	0.088	3.50	170	5.60	5.60	16.02
0.0029	0.074	3.75	200	7.08	7.08	23.10
0.0025	0.063	4.00	230	8.24	8.24	31.33
0.0021	0.053	4.25	270	8.72	8.72	40.05
0.00174	0.0442	4.50	325	8.40	8.40	48.45
0.00146	0.0372	4.75	400	7.50	7.50	55.95
0.00123	0.0313	5.00	450	6.40	6.40	62.35
0.000986	0.0250	5.32	500	6.77	6.77	69.12
0.000790	0.0201	5.64	635	5.46	5.46	74.58
0.000615	0.0156	6.00		4.90	4.90	79.48
0.000435	0.0110	6.50		5.21	5.21	84.69
0.000308	0.00781	7.00		3.87	3.87	88.56
0.000197	0.00500	7.65		3.61	3.61	92.17
0.000077	0.00195	9.00		4.48	4.48	96.65
0.000038	0.000977	10.00		2.05	2.05	98.70
0.000019	0.000488	11.00		1.18	1.18	99.88
0.000015	0.000375	11.38		0.12	0.12	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	2.89	0.0053	0.135
10	3.22	0.0042	0.107
16	3.50	0.0035	0.088
25	3.81	0.0028	0.071
40	4.25	0.0021	0.053
50	4.55	0.0017	0.043
60	4.91	0.0013	0.033
75	5.67	0.0008	0.020
84	6.43	0.0005	0.012
90	7.26	0.0003	0.007
95	8.50	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	4.55	4.55	4.55
Median, in.	0.0017	0.0017	0.0017
Median, mm	0.043	0.043	0.043
Mean, phi	4.46	4.97	4.83
Mean, in.	0.0018	0.0013	0.0014
Mean, mm	0.046	0.032	0.035
Sorting	1.907	1.467	1.584
Skewness	0.878	0.283	0.345
Kurtosis	0.258	0.913	1.235
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

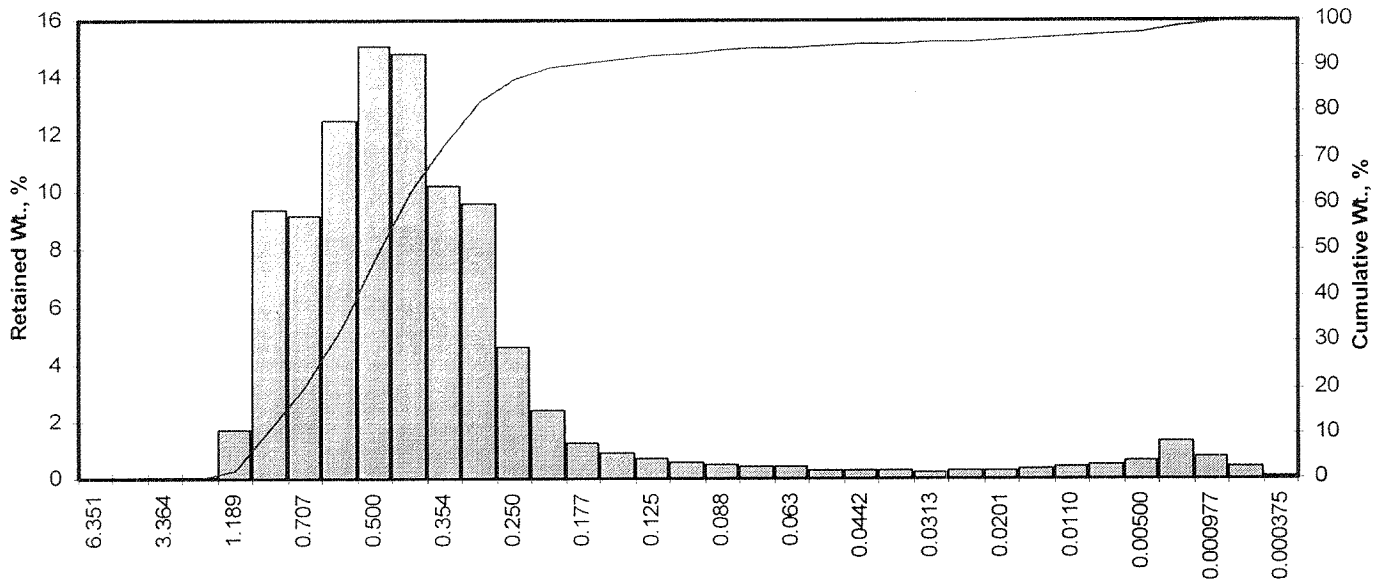
Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.01
Fine Sand	200	23.09
Silt	>0.005 mm	69.08
Clay	<0.005 mm	7.83
	Total	**100**

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35537
Project:	N/A	**Sample ID:**	MWG004_SS113_0001
Project No:	E5H260232	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	1.70	1.70	1.70
0.0331	0.841	0.25	20	9.41	9.41	11.11
0.0278	0.707	0.50	25	9.17	9.17	20.28
0.0234	0.595	0.75	30	12.50	12.50	32.78
0.0197	0.500	1.00	35	15.10	15.10	47.88
0.0166	0.420	1.25	40	14.80	14.80	62.68
0.0139	0.354	1.50	45	10.20	10.20	72.88
0.0117	0.297	1.75	50	9.58	9.58	82.46
0.0098	0.250	2.00	60	4.62	4.62	87.08
0.0083	0.210	2.25	70	2.41	2.41	89.49
0.0070	0.177	2.50	80	1.22	1.22	90.71
0.0059	0.149	2.75	100	0.87	0.87	91.58
0.0049	0.125	3.00	120	0.71	0.71	92.29
0.0041	0.105	3.25	140	0.58	0.58	92.87
0.0035	0.088	3.50	170	0.49	0.49	93.36
0.0029	0.074	3.75	200	0.41	0.41	93.77
0.0025	0.063	4.00	230	0.38	0.38	94.15
0.0021	0.053	4.25	270	0.31	0.31	94.46
0.00174	0.0442	4.50	325	0.26	0.26	94.72
0.00146	0.0372	4.75	400	0.25	0.25	94.97
0.00123	0.0313	5.00	450	0.22	0.22	95.19
0.000986	0.0250	5.32	500	0.27	0.27	95.46
0.000790	0.0201	5.64	635	0.29	0.29	95.75
0.000615	0.0156	6.00		0.33	0.33	96.08
0.000435	0.0110	6.50		0.44	0.44	96.52
0.000308	0.00781	7.00		0.45	0.45	96.97
0.000197	0.00500	7.65		0.61	0.61	97.58
0.000077	0.00195	9.00		1.28	1.28	98.86
0.000038	0.000977	10.00		0.73	0.73	99.59
0.000019	0.000488	11.00		0.38	0.38	99.97
0.000015	0.000375	11.38		0.04	0.03	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-0.07	0.0415	1.053
10	0.19	0.0345	0.876
16	0.38	0.0302	0.767
25	0.59	0.0261	0.662
40	0.87	0.0215	0.547
50	1.04	0.0192	0.488
60	1.20	0.0171	0.434
75	1.56	0.0134	0.340
84	1.83	0.0110	0.281
90	2.36	0.0077	0.195
95	4.79	0.0014	0.036

Measure	Trask	Inman	Folk-Ward
Median, phi	1.04	1.04	1.04
Median, in.	0.0192	0.0192	0.0192
Median, mm	0.488	0.488	0.488
Mean, phi	1.00	1.11	1.08
Mean, in.	0.0197	0.0183	0.0186
Mean, mm	0.501	0.464	0.472
Sorting	1.395	0.725	1.100
Skewness	0.973	0.100	0.322
Kurtosis	0.237	2.354	2.074

Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)

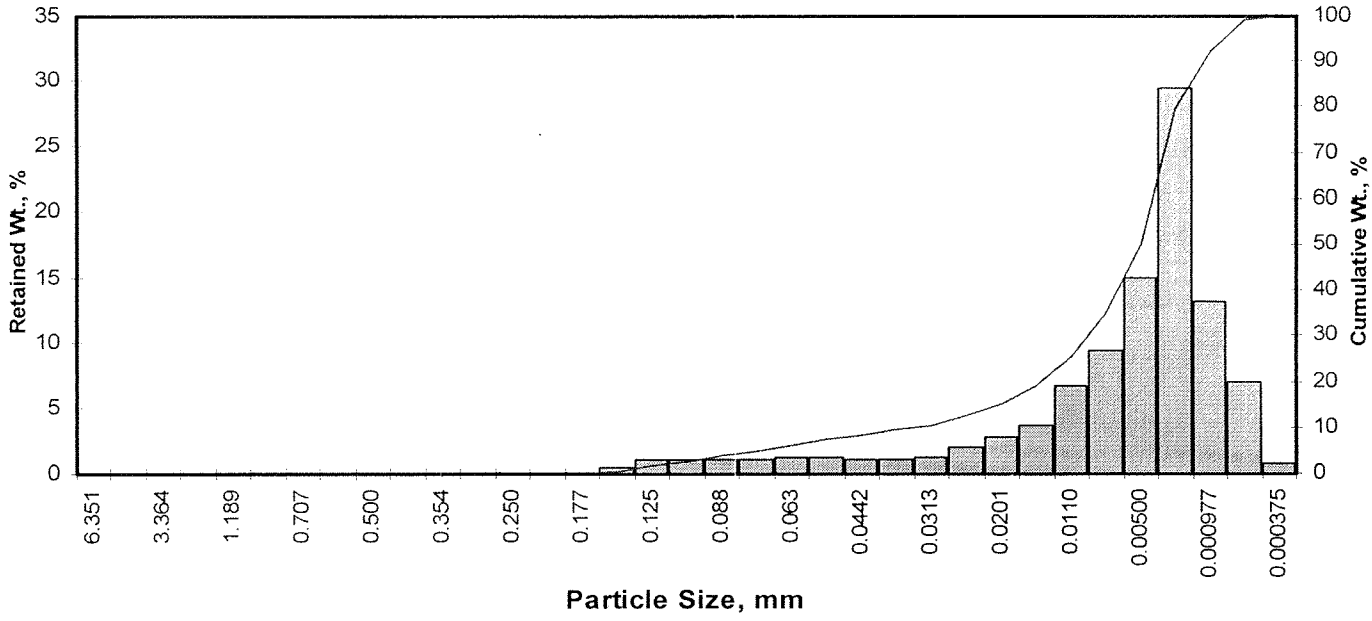
Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	62.68
Fine Sand	200	31.09
Silt	>0.005 mm	3.81
Clay	<0.005 mm	2.42
	Total	**100**

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35537
Project:	N/A	**Sample ID:**	MWG004_SS146_0001
Project No:	E5H260232	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.07	0.07	0.07
0.0059	0.149	2.75	100	0.51	0.51	0.58
0.0049	0.125	3.00	120	1.01	1.01	1.59
0.0041	0.105	3.25	140	1.09	1.09	2.68
0.0035	0.088	3.50	170	0.99	0.99	3.67
0.0029	0.074	3.75	200	1.05	1.05	4.72
0.0025	0.063	4.00	230	1.20	1.20	5.92
0.0021	0.053	4.25	270	1.23	1.23	7.15
0.00174	0.0442	4.50	325	1.11	1.11	8.26
0.00146	0.0372	4.75	400	1.03	1.03	9.29
0.00123	0.0313	5.00	450	1.16	1.16	10.45
0.000986	0.0250	5.32	500	2.01	2.01	12.46
0.000790	0.0201	5.64	635	2.76	2.76	15.22
0.000615	0.0156	6.00		3.65	3.65	18.87
0.000435	0.0110	6.50		6.65	6.65	25.52
0.000308	0.00781	7.00		9.33	9.33	34.85
0.000197	0.00500	7.65		15.00	15.00	49.85
0.000077	0.00195	9.00		29.40	29.40	79.24
0.000038	0.000977	10.00		13.10	13.10	92.34
0.000019	0.000488	11.00		6.93	6.93	99.27
0.000015	0.000375	11.38		0.73	0.73	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	3.81	0.0028	0.071
10	4.90	0.0013	0.033
16	5.72	0.0007	0.019
25	6.46	0.0004	0.011
40	7.22	0.0003	0.007
50	7.65	0.0002	0.005
60	8.11	0.0001	0.004
75	8.80	0.0001	0.002
84	9.36	0.0001	0.002
90	9.82	0.0000	0.001
95	10.38	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	7.65	7.65	7.65
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.005	0.005	0.005
Mean, phi	7.20	7.54	7.58
Mean, in.	0.0003	0.0002	0.0002
Mean, mm	0.007	0.005	0.005
Sorting	2.253	1.823	1.908
Skewness	1.014	-0.061	-0.115
Kurtosis	0.141	0.803	1.150
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

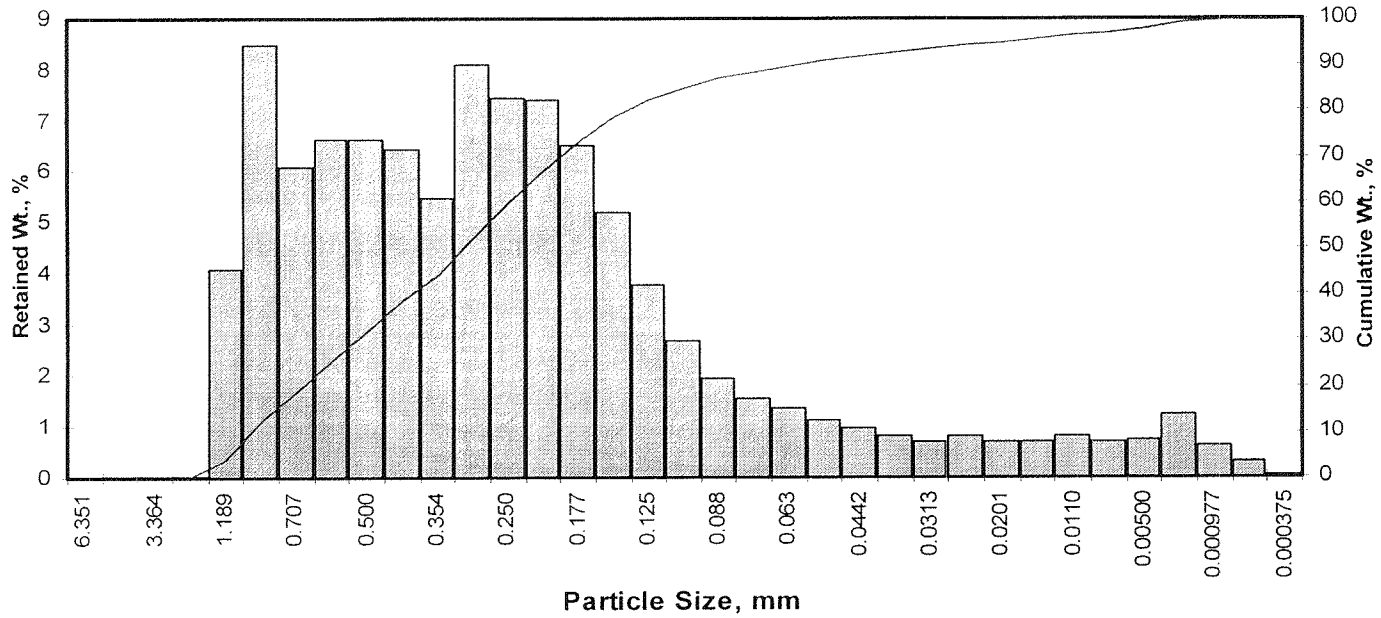
Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	4.72
Silt	>0.005 mm	45.13
Clay	<0.005 mm	50.15
	Total	**100**

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35537
Project:	N/A	**Sample ID:**	MWG004_SS165_0001
Project No:	E5H260232	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	4.07	4.07	4.07
0.0331	0.841	0.25	20	8.49	8.49	12.56
0.0278	0.707	0.50	25	6.10	6.10	18.66
0.0234	0.595	0.75	30	6.62	6.62	25.29
0.0197	0.500	1.00	35	6.62	6.62	31.91
0.0166	0.420	1.25	40	6.45	6.45	38.36
0.0139	0.354	1.50	45	5.46	5.46	43.82
0.0117	0.297	1.75	50	8.12	8.12	51.94
0.0098	0.250	2.00	60	7.44	7.44	59.38
0.0083	0.210	2.25	70	7.39	7.39	66.77
0.0070	0.177	2.50	80	6.52	6.52	73.29
0.0059	0.149	2.75	100	5.19	5.19	78.49
0.0049	0.125	3.00	120	3.76	3.76	82.25
0.0041	0.105	3.25	140	2.66	2.66	84.91
0.0035	0.088	3.50	170	1.95	1.95	86.86
0.0029	0.074	3.75	200	1.57	1.57	88.43
0.0025	0.063	4.00	230	1.34	1.34	89.77
0.0021	0.053	4.25	270	1.14	1.14	90.91
0.00174	0.0442	4.50	325	0.96	0.96	91.87
0.00146	0.0372	4.75	400	0.82	0.82	92.69
0.00123	0.0313	5.00	450	0.71	0.71	93.40
0.000986	0.0250	5.32	500	0.80	0.80	94.20
0.000790	0.0201	5.64	635	0.70	0.70	94.90
0.000615	0.0156	6.00		0.68	0.68	95.58
0.000435	0.0110	6.50		0.81	0.81	96.39
0.000308	0.00781	7.00		0.68	0.68	97.07
0.000197	0.00500	7.65		0.75	0.75	97.82
0.000077	0.00195	9.00		1.23	1.23	99.05
0.000038	0.000977	10.00		0.61	0.61	99.66
0.000019	0.000488	11.00		0.31	0.31	99.97
0.000015	0.000375	11.38		0.03	0.03	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than

Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-0.20	0.0451	1.145
10	0.10	0.0368	0.934
16	0.39	0.0300	0.763
25	0.74	0.0236	0.599
40	1.33	0.0157	0.399
50	1.69	0.0122	0.310
60	2.02	0.0097	0.246
75	2.58	0.0066	0.167
84	3.16	0.0044	0.112
90	4.05	0.0024	0.060
95	5.69	0.0008	0.019

Measure	Trask	Inman	Folk-Ward
Median, phi	1.69	1.69	1.69
Median, in.	0.0122	0.0122	0.0122
Median, mm	0.310	0.310	0.310
Mean, phi	1.38	1.78	1.75
Mean, in.	0.0151	0.0115	0.0117
Mean, mm	0.383	0.292	0.298
Sorting	1.894	1.387	1.586
Skewness	1.021	0.063	0.211
Kurtosis	0.247	1.123	1.310

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)

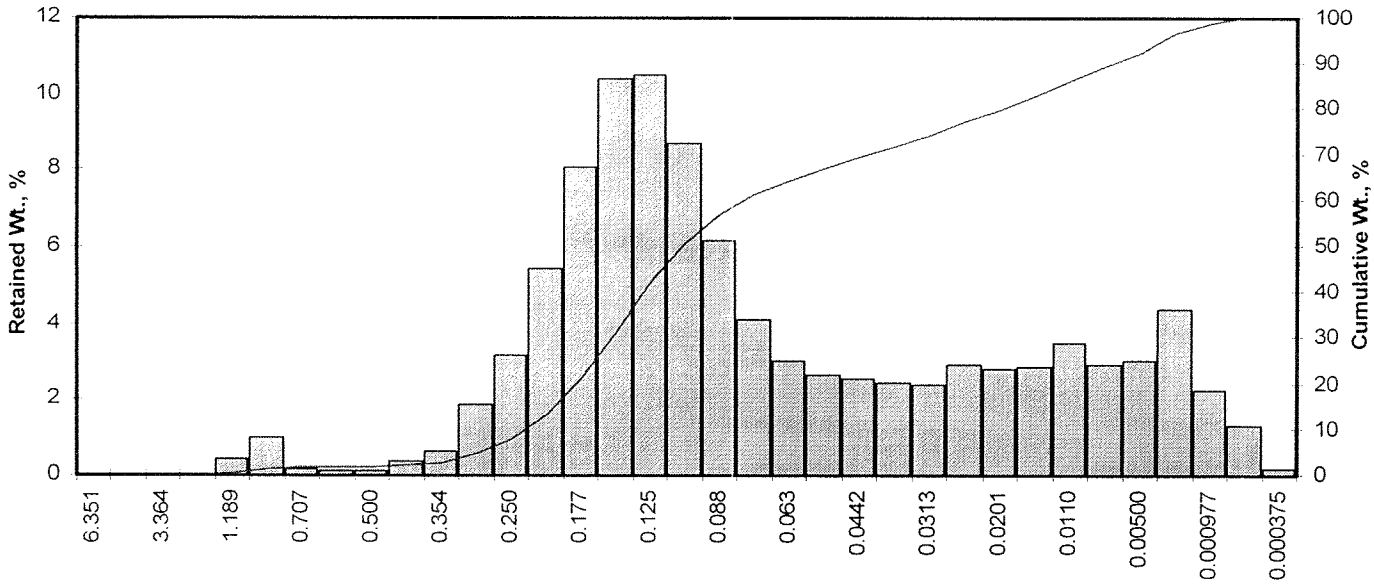
Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	38.36
Fine Sand	200	50.07
Silt	>0.005 mm	9.39
Clay	<0.005 mm	2.18
	Total	**100**

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	STL, Inc.	**PTS File No:**	35537
Project:	N/A	**Sample ID:**	MWG004_SS172_0001
Project No:	E5H260232	**Depth, ft:**	N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.41	0.41	0.41
0.0331	0.841	0.25	20	0.97	0.97	1.38
0.0278	0.707	0.50	25	0.18	0.18	1.56
0.0234	0.595	0.75	30	0.08	0.08	1.64
0.0197	0.500	1.00	35	0.12	0.12	1.76
0.0166	0.420	1.25	40	0.34	0.34	2.10
0.0139	0.354	1.50	45	0.63	0.63	2.73
0.0117	0.297	1.75	50	1.87	1.87	4.60
0.0098	0.250	2.00	60	3.16	3.16	7.76
0.0083	0.210	2.25	70	5.43	5.43	13.19
0.0070	0.177	2.50	80	8.08	8.08	21.27
0.0059	0.149	2.75	100	10.40	10.40	31.67
0.0049	0.125	3.00	120	10.50	10.50	42.17
0.0041	0.105	3.25	140	8.71	8.71	50.87
0.0035	0.088	3.50	170	6.13	6.13	57.00
0.0029	0.074	3.75	200	4.10	4.10	61.10
0.0025	0.063	4.00	230	3.01	3.01	64.11
0.0021	0.053	4.25	270	2.62	2.62	66.73
0.00174	0.0442	4.50	325	2.51	2.51	69.24
0.00146	0.0372	4.75	400	2.43	2.43	71.67
0.00123	0.0313	5.00	450	2.36	2.36	74.03
0.000986	0.0250	5.32	500	2.92	2.92	76.95
0.000790	0.0201	5.64	635	2.80	2.80	79.75
0.000615	0.0156	6.00		2.87	2.87	82.62
0.000435	0.0110	6.50		3.48	3.48	86.10
0.000308	0.00781	7.00		2.91	2.91	89.01
0.000197	0.00500	7.65		3.02	3.02	92.03
0.000077	0.00195	9.00		4.32	4.32	96.35
0.000038	0.000977	10.00		2.21	2.21	98.56
0.000019	0.000488	11.00		1.30	1.30	99.86
0.000015	0.000375	11.38		0.14	0.14	100.00
TOTALS				**100.00**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	1.78	0.0115	0.291
10	2.10	0.0092	0.233
16	2.34	0.0078	0.198
25	2.59	0.0065	0.166
40	2.95	0.0051	0.130
50	3.22	0.0042	0.107
60	3.68	0.0031	0.078
75	5.11	0.0011	0.029
84	6.20	0.0005	0.014
90	7.21	0.0003	0.007
95	8.58	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	3.22	3.22	3.22
Median, in.	0.0042	0.0042	0.0042
Median, mm	0.107	0.107	0.107
Mean, phi	3.36	4.27	3.92
Mean, in.	0.0038	0.0020	0.0026
Mean, mm	0.098	0.052	0.066
Sorting	2.392	1.931	1.995
Skewness	0.649	0.540	0.558
Kurtosis	0.303	0.760	1.107
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.10
Fine Sand	200	59.00
Silt	>0.005 mm	30.93
Clay	<0.005 mm	7.97
	Total	**100**

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Phone: (562) 907-3607 Fax: (562) 907-3610

Appendix G

BOE-C6-0104985

APPENDIX G

Data Validation Report

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

Haley & Aldrich, Inc.
9040 Friars Road, Suite 220
San Diego, CA 92108
ATTN: Ms. Beth Breitenbach

November 9, 2005

SUBJECT: Boeing C-6 Facility, Data Validation

Dear Ms. Breitenbach,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on November 1, 2005. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 14214:

SDG #	**Fraction**
E5E200399, E5I210383	Volatiles

The data validation was performed under Tier 1, Tier 2 and Tier 3 guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998

Please feel free to contact us if you have any questions.

Sincerely,

Erlinda T. Rauto
Operations Manager/Senior Chemist

14214COV.wpd

2 Week TAT (25%)

Attachment 1

Level II

LDC #14214 (Haley & Aldrich, Inc.-San Diego / Boeing Huntington Beach, Bldg C-6)

PO #28882.610

LDC	SDG#	DATE REC'D	(2) DATE DUE	VOA (8260B)																															
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	E5E200399	11/01/05	11/15/05	8	0	Tier 1																													
B	E5I210383	11/01/05	11/15/05	5	0	Tier 2																													
B	E5I210383	11/01/05	11/15/05	1	0	Tier 3																													
Total	B/LR			14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14

Shaded cells indicate Tier III validation (all other cells are Tier II validation). Sample counts do not include MS, MSD, or DUP's.

14214ST.wpd

Boeing Huntington Beach, Bldg. C-6
Data Validation Reports
LDC# 14214

Volatiles

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Boeing Former C-6 Facility

Collection Date: May 20, 2005

LDC Report Date: November 18, 2005

Matrix: Water

Parameters: Volatiles

Validation Level: Tier 1

Laboratory: Severn Trent Laboratories

Sample Delivery Group (SDG): E5E200399

Sample Identification

TB_HA052005_0001
FB_HA052005_0001
FB_HA052005_0002
EB_HA052005_0001
MWG001_WG052005_0001
MWG002_WG052005_0001
MWG002_WG052005_0002
MWC009_WG052005_0001
MWC009_WG052005_0001MS
MWC009_WG052005_0001MSD

Introduction

This data review covers 10 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical or advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance data were not reviewed for Tier 1.

III. Initial Calibration

Initial calibration data were not reviewed for Tier 1.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Tier 1.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. Since the sample concentration was greater than the spiked concentration, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
5143623LCS	Dichlorodifluoromethane	171 (40-160)	All samples in SDG E5E200399	J (all detects)	P
	Chloromethane	160 (60-140)		J (all detects)	
	Bromomethane	182 (60-140)		J (all detects)	
	Acetone	146 (60-140)		J (all detects)	
	tert-Butanol	248 (40-150)		J (all detects)	

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

Internal standard data were not reviewed for Tier 1.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples MWG002_WG052005_0001 and MWG002_WG052005_0002 were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MWG002_WG052005_0001	MWG002_WG052005_0002	
Methylene chloride	0.64	0.83	26
Chloroform	0.54	0.64	17
Trichloroethene	56	68	19

XVII. Field Blanks

Sample TB_HA052005_0001 was identified as a trip blank. No volatile contaminants were found in this blank.

Sample EB_HA052005_0001 was identified as an equipment blank. No volatile contaminants were found in this blank with the following exceptions:

Equipment Blank ID	Compound	Concentration (ug/L)
EB_HA052005_0001	Acetone 2-Butanone	15 11

Samples FB_HA052005_0001 and FB_HA052005_0002 were identified as field blanks. No volatile contaminants were found in these blanks.

Boeing Former C-6 Facility
Volatiles - Data Qualification Summary - SDG E5E200399

SDG	Sample	Compound	Flag	A or P	Reason
E5E200399	TB_HA052005_0001 FB_HA052005_0001 FB_HA052005_0002 EB_HA052005_0001 MWG001_WG052005_0001 MWG002_WG052005_0001 MWG002_WG052005_0002 MWC009_WG052005_0001	Dichlorodifluoromethane Chloromethane Bromomethane Acetone tert-Butanol	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	P	Laboratory control samples (%R)

Boeing Former C-6 Facility
Volatiles - Laboratory Blank Data Qualification Summary - SDG E5E200399

No Sample Data Qualified in this SDG

A

Haley & Aldrich Inc.

Client Sample ID: TB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...:	E5E200399-001	**Work Order #...:**	HA2PP1AA	**Matrix.....:**	WG
Date Sampled...:	05/20/05 10:30	**Date Received..:**	05/20/05 21:05	**MS Run #.....:**	5143394
Prep Date.....:	05/23/05	**Analysis Date..:**	05/23/05		
Prep Batch #...:	5143623	**Analysis Time..:**	09:49		
Dilution Factor:	1				
Analyst ID.....:	015590	**Instrument ID..:**	MSR		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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11/8/05

Haley & Aldrich Inc.

Client Sample ID: TB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-001 **Work Order #...:** HA2PP1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
Toluene-d8	95	(80 - 130)

Haley & Aldrich Inc.

Client Sample ID: FB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-002 **Work Order #...:** HA2PQ1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 10:45 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 10:13
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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11/8/05

Haley & Aldrich Inc.

Client Sample ID: FB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-002 **Work Order #...:** HA2PQ1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	99	(65 - 135)
Toluene-d8	91	(80 - 130)

11/8/05

Haley & Aldrich Inc.

Client Sample ID: FB_HA052005_0002

GC/MS Volatiles

Lot-Sample #...: E5E200399-003 **Work Order #...:** HA2PR1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 11:00 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 10:36
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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11/8/05

Haley & Aldrich Inc.

Client Sample ID: FB_HA052005_0002

GC/MS Volatiles

Lot-Sample #...: E5E200399-003 **Work Order #...:** HA2PR1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	95	(80 - 130)

11/8/05

Haley & Aldrich Inc.

Client Sample ID: EB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...:	E5E200399-004	**Work Order #...:**	HA2PT1AA	**Matrix.....:**	WG
Date Sampled...:	05/20/05 11:45	**Date Received..:**	05/20/05 21:05	**MS Run #.....:**	5143394
Prep Date.....:	05/23/05	**Analysis Date..:**	05/23/05		
Prep Batch #...:	5143623	**Analysis Time..:**	11:04		
Dilution Factor:	1				
Analyst ID.....:	015590	**Instrument ID..:**	MSR		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	**15** J	**10**	**ug/L**	**3.0**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	**11**	**5.0**	**ug/L**	**3.0**
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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Haley & Aldrich Inc.

Client Sample ID: EB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-004 **Work Order #...:** HA2PT1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 130)
1,2-Dichloroethane-d4	107	(65 - 135)
Toluene-d8	90	(80 - 130)

e 11/8/05

Haley & Aldrich Inc.

Client Sample ID: MWG001_WG052005_0001

GC/MS Volatiles

Lot-Sample #...:	E5E200399-005	**Work Order #...:**	HA2PV1AA	**Matrix.....:**	WG
Date Sampled...:	05/20/05 14:05	**Date Received..:**	05/20/05 21:05	**MS Run #.....:**	5143394
Prep Date.....:	05/23/05	**Analysis Date..:**	05/23/05		
Prep Batch #...:	5143623	**Analysis Time..:**	11:28		
Dilution Factor:	1				
Analyst ID.....:	015590	**Instrument ID..:**	MSR		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	**3.7**	**1.0**	**ug/L**	**0.30**
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	**2.5**	**1.0**	**ug/L**	**0.30**
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**9.3**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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6/18/05

Haley & Aldrich Inc.

Client Sample ID: MWG001_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-005 **Work Order #...:** HA2PV1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

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

11/8/05

Haley & Aldrich Inc.

Client Sample ID: MWG002_WG052005_0001

GC/MS Volatiles

Lot-Sample #...:	E5E200399-006	**Work Order #...:**	HA2PW1AA	**Matrix.....:**	WG
Date Sampled...:	05/20/05 16:25	**Date Received..:**	05/20/05 21:05	**MS Run #.....:**	5143394
Prep Date.....:	05/23/05	**Analysis Date..:**	05/23/05		
Prep Batch #...:	5143623	**Analysis Time..:**	11:51		
Dilution Factor:	1				
Analyst ID.....:	015590	**Instrument ID..:**	MSR		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	**0.64 J**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	**0.54 J**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**56**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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11/8/05

Haley & Aldrich Inc.

Client Sample ID: MWG002_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-006 **Work Order #...:** HA2PW1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(75 - 130)
1,2-Dichloroethane-d4	101	(65 - 135)
Toluene-d8	90	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

6/18/05

Haley & Aldrich Inc.

Client Sample ID: MWG002_WG052005_0002

GC/MS Volatiles

Lot-Sample #...:	E5E200399-007	**Work Order #...:**	HA2PX1AA	**Matrix.....:**	WG
Date Sampled...:	05/20/05 16:30	**Date Received..:**	05/20/05 21:05	**MS Run #.....:**	5143394
Prep Date.....:	05/23/05	**Analysis Date..:**	05/23/05		
Prep Batch #...:	5143623	**Analysis Time..:**	12:15		
Dilution Factor:	1				
Analyst ID.....:	015590	**Instrument ID..:**	MSR		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	**0.83 J**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	**0.64 J**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**68**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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11/8/05

Haley & Aldrich Inc.

Client Sample ID: MWG002_WG052005_0002

GC/MS Volatiles

Lot-Sample #...: E5E200399-007 **Work Order #...:** HA2PX1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
1,2-Dichloroethane-d4	112	(65 - 135)
Toluene-d8	90	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

6/18/05

Haley & Aldrich Inc.

Client Sample ID: MWC009_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-008 Work Order #...: HA2P01AA Matrix.....: WG
Date Sampled...: 05/20/05 18:15 Date Received..: 05/20/05 21:05 MS Run #.....: 5143394
Prep Date.....: 05/23/05 Analysis Date..: 05/23/05
Prep Batch #...: 5143623 Analysis Time..: 12:38
Dilution Factor: 25
Analyst ID.....: 015590 Instrument ID..: MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	25	ug/L	10
Chloromethane	ND	50	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Bromomethane	ND	50	ug/L	25
Trichlorofluoromethane	ND	50	ug/L	7.5
1,1-Dichloroethene	**1200**	**25**	**ug/L**	**7.5**
Methylene chloride	ND	25	ug/L	7.5
Methyl tert-butyl ether	ND	25	ug/L	12
Carbon disulfide	ND	25	ug/L	7.5
Acetone	ND	250	ug/L	75
trans-1,2-Dichloroethene	**22 J**	**25**	**ug/L**	**7.5**
1,1-Dichloroethane	**8.9 J**	**25**	**ug/L**	**5.0**
2,2-Dichloropropane	ND	25	ug/L	7.5
cis-1,2-Dichloroethene	**28**	**25**	**ug/L**	**7.5**
Chloroform	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
2-Butanone	ND	120	ug/L	75
1,1-Dichloropropene	ND	25	ug/L	7.5
Carbon tetrachloride	ND	12	ug/L	7.5
1,2-Dibromoethane	ND	25	ug/L	7.5
Benzene	ND	25	ug/L	7.5
Trichloroethene	**300**	**25**	**ug/L**	**7.5**
Bromodichloromethane	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Toluene	ND	25	ug/L	7.5
1,1,2-Trichloroethane	**8.8 J**	**25**	**ug/L**	**7.5**
1,2-Dichloroethane	**10 J**	**12**	**ug/L**	**10**
Tetrachloroethene	ND	25	ug/L	7.5
2-Hexanone	ND	120	ug/L	75
Dibromochloromethane	ND	25	ug/L	10
Chlorobenzene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
Ethylbenzene	ND	25	ug/L	5.0
Vinyl chloride	ND	12	ug/L	7.5
Xylenes (total)	ND	25	ug/L	20
Styrene	ND	25	ug/L	7.5

(Continued on next page)

6/8/05

Haley & Aldrich Inc.

Client Sample ID: MWC009_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-008 **Work Order #...:** HA2P01AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	25	ug/L	7.5
Isopropylbenzene	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
1,2,3-Trichloropropane	ND	25	ug/L	10
n-Propylbenzene	ND	25	ug/L	10
Bromobenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
n-Butylbenzene	ND	25	ug/L	7.5
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
Hexachlorobutadiene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
Acrolein	ND	500	ug/L	300
Tert-amyl methyl ether	ND	50	ug/L	12
Acrylonitrile	ND	500	ug/L	250
Tert-butyl ethyl ether	ND	50	ug/L	12
t-Butanol	ND	620	ug/L	150
Iodomethane	ND	50	ug/L	25
Isopropyl ether	ND	50	ug/L	12
2-Chloroethyl vinyl ether	ND	120	ug/L	50
Tetrahydrofuran	ND	250	ug/L	50
Vinyl acetate	ND	120	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	105	(65 - 135)
Toluene-d8	92	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Entered

LDC #: 14214A1a

VALIDATION COMPLETENESS WORKSHEET

Date: 11/07/05

SDG #: E5E200399

Level II Tier 1

Page: 1 of 1

Laboratory: Severn Trent Laboratories, Inc.

Reviewer: JVG

2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	~~N~~ A	Sampling dates: 5/20/05
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration	N	
V.	Blanks	~~N~~ A	
VI.	Surrogate spikes	~~N~~ A	
VII.	Matrix spike/Matrix spike duplicates	~~N~~ SW	
VIII.	Laboratory control samples	~~N~~ SW	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentitatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	~~N~~ A	
XVI.	Field duplicates	SW	D = 6, 7
XVII.	Field blanks	SW	*TB = 1 *FB = 2, 3 EB = 4

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
*ND = No compounds detected
D = Duplicate
R = Rinsate
FB = Field blank
TB = Trip blank
EB = Equipment blank

Validated Samples:

Water

1	TB_HA052005_0001	11	5143623 MB	21		31	
2	FB_HA052005_0001	12		22		32	
3	FB_HA052005_0002	13		23		33	
4	EB_HA052005_0001	14		24		34	
5	MWG001_WG052005_0001	15		25		35	
6	MWG002_WG052005_0001	16		26		36	
7	MWG002_WG052005_0002	17		27		37	
8	MWC009_WG052005_0001	18		28		38	
9	MWC009_WG052005_0001MS	19		29		39	
10	MWC009_WG052005_0001MSD	20		30		40	

TARGET COMPOUND WORKSHEET

ETHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	S. Trichloroethene	KK. Trichlorofluoromethane	CCC. tert-Butylbenzene	UUU. 1,2-Dichlorotetrafluoroethane
B. Bromomethane	T. Dibromochloromethane	LL. Methyl-tert-butyl ether	DDD. 1,2,4-Trimethylbenzene	VVV. 4-Ethyltoluene
C. Vinyl choride**	U. 1,1,2-Trichloroethane	MM. 1,2-Dibromo-3-chloropropane	EEE. sec-Butylbenzene	WWW. Ethanol
D. Chloroethane	V. Benzene	NN. Methyl ethyl ketone	FFF. 1,3-Dichlorobenzene	XXX. Di-isopropyl ether
E. Methylene chloride	W. trans-1,3-Dichloropropene	OO. 2,2-Dichloropropane	GGG. p-Isopropyltoluene	YYY. tert-Butanol
F. Acetone	X. Bromoform*	PP. Bromochloromethane	HHH. 1,4-Dichlorobenzene	ZZZ. tert-Butyl alcohol
G. Carbon disulfide	Y. 4-Methyl-2-pentanone	QQ. 1,1-Dichloropropene	III. n-Butylbenzene	AAAA. Ethyl tert-butyl ether
H. 1,1-Dichloroethene**	Z. 2-Hexanone	RR. Dibromomethane	JJJ. 1,2-Dichlorobenzene	BBBB. tert-Amyl methyl ether
I. 1,1-Dichloroethane*	AA. Tetrachloroethene	SS. 1,3-Dichloropropane	KKK. 1,2,4-Trichlorobenzene	CCCC.1-Chlorohexane
J. 1,2-Dichloroethene, total	BB. 1,1,2,2-Tetrachloroethane*	TT. 1,2-Dibromoethane	LLL. Hexachlorobutadiene	DDDD. Isopropyl alcohol
K. Chloroform**	CC. Toluene**	UU. 1,1,1,2-Tetrachloroethane	MMM. Naphthalene	EEEE. Acetonitrile
L. 1,2-Dichloroethane	DD. Chlorobenzene*	VV. Isopropylbenzene	NNN. 1,2,3-Trichlorobenzene	FFFF. Acrolein
M. 2-Butanone	EE. Ethylbenzene**	WW. Bromobenzene	OOO. 1,3,5-Trichlorobenzene	GGGG. Acrylonitrile
N. 1,1,1-Trichloroethane	FF. Styrene	XX. 1,2,3-Trichloropropane	PPP. trans-1,2-Dichloroethene	HHHH. 1,4-Dioxane
O. Carbon tetrachloride	GG. Xylenes, total	YY. n-Propylbenzene	QQQ. cis-1,2-Dichloroethene	IIII. Isobutyl alcohol
P. Bromodichloromethane	HH. Vinyl acetate	ZZ. 2-Chlorotoluene	RRR. m,p-Xylenes	JJJJ. Methacrylonitrile
Q. 1,2-Dichloropropane**	II. 2-Chloroethylvinyl ether	AAA. 1,3,5-Trimethylbenzene	SSS. o-Xylene	KKKK. Propionitrile
R. cis-1,3-Dichloropropene	JJ. Dichlorodifluoromethane	BBB. 4-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	LLLL.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 14214 A1a
SDG #: E5E200399

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?
Y N N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		5143623 LCS	JJ	171 (40-160)	( )	( )	All + Blk	J/ets /P
			A	160 (60-140)	( )	( )		
			B	182 (60-140)	( )	( )		
			F	146 (↓)	( )	( )		
			YYY	248 (40-150)	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

BOE-C6-0105014

LDC #: 14214 A1a
SDG #: E5E200399

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: JVG
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD
	6	7	
E	0.64	0.83	26
K	0.54	0.64	17
S	56	68	19

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

FLDUP4.1S

LDC #: 14214 A1a
SDG #: E5E200399

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: JVG
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?

Sample: 4 EB Field Blank / Trip Blank / Rinsate / Other _____ (circle one)

Compound	Concentration Units (ug/L)
F	15
M	11

Sample: _____ Field Blank / Trip Blank / Rinsate / Other_____ (circle one)

Compound	Concentration Units ( )

Sample: _____ Field Blank / Trip Blank / Rinsate / Other_____ (circle one)

Compound	Concentration Units ( )

FLDBLK.1SB

#: 2/4

SDG #: E5E200399

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1

Reviewer: JVG

2nd Reviewer: [illegible]

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		9/10	H	55 (65-135)	34 (65-135)	( )	8	~~J/UJ/A~~ No qual
				( )	( )	( )		(parent conc. > 2x
				( )	( )	( )		spike amt.)
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	≤ 22%	61-145%	≤ 14%
S.	Trichloroethene	62-137%	≤ 24%	71-120%	≤ 14%
V.	Benzene	66-142%	≤ 21%	76-127%	≤ 11%
CC.	Toluene	59-139%	≤ 21%	76-125%	≤ 13%
DD.	Chlorobenzene	60-133%	≤ 21%	75-130%	≤ 13%

MSD.1SB

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Boeing Former C-6 Facility

Collection Date: September 21, 2005

LDC Report Date: November 18, 2005

Matrix: Water

Parameters: Volatiles

Validation Level: Tier 2 & Tier 3

Laboratory: Severn Trent Laboratories

Sample Delivery Group (SDG): E5I210383

Sample Identification

FB_HA092105_0001
TB_HA092105_0001
MWG003_WG092105_0001
MWG003_WG092105_0002**
MWG004_WG092105_0001
EB_HA092105_0001

**Indicates sample underwent a Tier 3 review

Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical or advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Samples indicated by a double asterisk on the front cover underwent a Tier 3 review. A Tier 2 review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Tier 2 or Tier 1 criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%RSD	Associated Samples	Flag	A or P
9/21/05	Tetrahydrofuran	36.470	All samples in SDG E5I210383	J (all detects) UJ (all non-detects)	A

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
9/21/05	Acrolein Acetone tert-Butanol Acrylonitrile 2-Butanone Tetrahydrofuran 2-Chloroethylvinyl ether	0.02111 (≥0.05) 0.02250 (≥0.05) 0.00543 (≥0.05) 0.03397 (≥0.05) 0.04393 (≥0.05) 0.03144 (≥0.05) 0.03826 (≥0.05)	All samples in SDG E5I210383	J (all detects) UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
9/23/05	Chloroethane Acetone tert-Butanol	25.46328 25.87999 35.19012	All samples in SDG E5I210383	J (all detects) UJ (all non-detects)	A

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
9/23/05	Acrolein Acetone tert-Butanol Acrylonitrile 2-Butanone Tetrahydrofuran 2-Chloroethylvinyl ether	0.02486 (≥0.05) 0.02833 (≥0.05) 0.00734 (≥0.05) 0.03883 (≥0.05) 0.04786 (≥0.05) 0.02714 (≥0.05) 0.03906 (≥0.05)	All samples in SDG E5I210383	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
9/21/05	Bromomethane Vinyl acetate	33.08328 39.286	All samples in SDG E5I210383	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
5266561LCS	Bromomethane	157 (60-140)	All samples in SDG E5I210383	J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria for samples on which a Tier 3 review was performed. Raw data were not evaluated for the samples reviewed by Tier 2 criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a Tier 3 review was performed. Raw data were not evaluated for the samples reviewed by Tier 2 criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria for samples on which a Tier 3 review was performed. Raw data were not evaluated for the samples reviewed by Tier 2 criteria.

Haley & Aldrich Inc.

Client Sample ID: MWG003_WG092105_0002

GC/MS Volatiles

Lot-Sample #...: E5I210383-004 **Work Order #...:** HK4AF1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.40
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND UJ	20	ug/L	10
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND UJ	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND UJ	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND UJ	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	87	(75 - 130)
1,2-Dichloroethane-d4	98	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

11/8/05

Haley & Aldrich Inc.

Client Sample ID: MWG003_WG092105_0002

GC/MS Volatiles

Lot-Sample #...:	E5I210383-004	**Work Order #...:**	HK4AF1AA	**Matrix.....:**	WG
Date Sampled...:	09/21/05 12:10	**Date Received..:**	09/21/05 17:10	**MS Run #.....:**	5266348
Prep Date.....:	09/23/05	**Analysis Date..:**	09/23/05		
Prep Batch #...:	5266561	**Analysis Time..:**	14:35		
Dilution Factor:	1				
Analyst ID.....:	015590	**Instrument ID..:**	MSQ		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND UJ	2.0	ug/L	0.40
Bromomethane	ND UJ	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.40
Acetone	ND UJ	10	ug/L	2.0
trans-1,2-Dichloroethene	**0.42 J**	**1.0**	**ug/L**	**0.30**
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.40
cis-1,2-Dichloroethene	**14**	**1.0**	**ug/L**	**0.30**
Chloroform	**0.60 J**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND UJ	5.0	ug/L	2.5
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**72**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	2.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.50
Styrene	ND	1.0	ug/L	0.30

(Continued on next page)

11/8/05

Haley & Aldrich Inc.

Client Sample ID: MWG003_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-003 **Work Order #...:** HK4AC1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.40
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND UJ	20	ug/L	10
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND UJ	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND UJ	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND UJ	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

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

NOTE(S):

J Estimated result. Result is less than RL.

11/8/05

Haley & Aldrich Inc.

Client Sample ID: MWG003_WG092105_0001

GC/MS Volatiles

Lot-Sample #...:	E5I210383-003	**Work Order #...:**	HK4AC1AA	**Matrix.....:**	WG
Date Sampled...:	09/21/05 12:05	**Date Received..:**	09/21/05 17:10	**MS Run #.....:**	5266348
Prep Date.....:	09/23/05	**Analysis Date..:**	09/23/05		
Prep Batch #...:	5266561	**Analysis Time..:**	14:12		
Dilution Factor:	1				
Analyst ID.....:	015590	**Instrument ID..:**	MSQ		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND UJ	2.0	ug/L	0.40
Bromomethane	ND UJ	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.40
Acetone	ND J	10	ug/L	2.0
trans-1,2-Dichloroethene	**0.45 J**	**1.0**	**ug/L**	**0.30**
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.40
cis-1,2-Dichloroethene	**15**	**1.0**	**ug/L**	**0.30**
Chloroform	**0.59 J**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND UJ	5.0	ug/L	2.5
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**74**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	2.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.50
Styrene	ND	1.0	ug/L	0.30

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11/8/01

Haley & Aldrich Inc.

Client Sample ID: TB_HA092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-002 **Work Order #...:** HK3981AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.40
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND UJ	20	ug/L	10
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND UJ	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND UJ	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND UJ	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	97	(65 - 135)
Toluene-d8	96	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

11/8/01

Haley & Aldrich Inc.

Client Sample ID: TB_HA092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-002 **Work Order #...:** HK3981AA **Matrix.....:** WG
Date Sampled...: 09/21/05 12:00 **Date Received..:** 09/21/05 17:10 **MS Run #.....:** 5266348
Prep Date.....: 09/23/05 **Analysis Date..:** 09/23/05
Prep Batch #...: 5266561 **Analysis Time..:** 13:49
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND UJ	2.0	ug/L	0.40
Bromomethane	ND UJ	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.40
Acetone	**5.2 J** J	**10**	**ug/L**	**2.0**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.40
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND UJ	5.0	ug/L	2.5
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	2.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.50
Styrene	ND	1.0	ug/L	0.30

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Haley & Aldrich Inc.

Client Sample ID: FB_HA092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-001 **Work Order #...:** HK3931AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.40
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND UJ	20	ug/L	10
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND UJ	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND UJ	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND UJ	5.0	ug/L	2.0
Tetrahydrofuran	ND UJ	10	ug/L	2.0
Vinyl acetate	ND UJ	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	97	(65 - 135)
Toluene-d8	97	(80 - 130)

11/8/05

Haley & Aldrich Inc.

Client Sample ID: FB_HA092105_0001

GC/MS Volatiles

Lot-Sample #...:	E5I210383-001	**Work Order #...:**	HK3931AA	**Matrix.....:**	WG
Date Sampled...:	09/21/05 11:55	**Date Received..:**	09/21/05 17:10	**MS Run #.....:**	5266348
Prep Date.....:	09/23/05	**Analysis Date..:**	09/23/05		
Prep Batch #...:	5266561	**Analysis Time..:**	13:26		
Dilution Factor:	1				
Analyst ID.....:	015590	**Instrument ID..:**	MSQ		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND UJ	2.0	ug/L	0.40
Bromomethane	ND UJ	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.40
Acetone	ND UJ	10	ug/L	2.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.40
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND UJ	5.0	ug/L	2.5
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	2.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.50
Styrene	ND	1.0	ug/L	0.30

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Boeing Former C-6 Facility
Volatiles - Data Qualification Summary - SDG E5I210383

SDG	Sample	Compound	Flag	A or P	Reason
E5I210383	FB_HA092105_0001 TB_HA092105_0001 MWG003_WG092105_0001 MWG003_WG092105_0002** MWG004_WG092105_0001 EB_HA092105_0001	Tetrahydrofuran	J (all detects) UJ (all non-detects)	A	Initial calibration (%RSD)
E5I210383	FB_HA092105_0001 TB_HA092105_0001 MWG003_WG092105_0001 MWG003_WG092105_0002** MWG004_WG092105_0001 EB_HA092105_0001	Acrolein Acetone tert-Butanol Acrylonitrile 2-Butanone Tetrahydrofuran 2-Chloroethylvinyl ether	J (all detects) UJ (all non-detects)	A	Initial calibration (RRF)
E5I210383	FB_HA092105_0001 TB_HA092105_0001 MWG003_WG092105_0001 MWG003_WG092105_0002** MWG004_WG092105_0001 EB_HA092105_0001	Chloroethane Acetone tert-Butanol	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
E5I210383	FB_HA092105_0001 TB_HA092105_0001 MWG003_WG092105_0001 MWG003_WG092105_0002** MWG004_WG092105_0001 EB_HA092105_0001	Acrolein Acetone tert-Butanol Acrylonitrile 2-Butanone Tetrahydrofuran 2-Chloroethylvinyl ether	J (all detects) UJ (all non-detects)	A	Continuing calibration (RRF)
E5I210383	FB_HA092105_0001 TB_HA092105_0001 MWG003_WG092105_0001 MWG003_WG092105_0002** MWG004_WG092105_0001 EB_HA092105_0001	Bromomethane Vinyl acetate	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D)
E5I210383	FB_HA092105_0001 TB_HA092105_0001 MWG003_WG092105_0001 MWG003_WG092105_0002** MWG004_WG092105_0001 EB_HA092105_0001	Bromomethane	J (all detects)	P	Laboratory control samples (%R)

Boeing Former C-6 Facility
Volatiles - Laboratory Blank Data Qualification Summary - SDG E5I210383

No Sample Data Qualified in this SDG

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples MWG003_WG092105_0001 and MWG003_WG092105_0002** were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MWG003_WG092105_0001	MWG003_WG092105_0002**	
trans-1,2-Dichloroethene	0.45	0.42	7
cis-1,2-Dichloroethene	15	14	7
Chloroform	0.59	0.60	2
Trichloroethene	74	72	3

XVII. Field Blanks

Sample TB_HA092105_0001 was identified as a trip blank. No volatile contaminants were found in this blank with the following exceptions:

Trip Blank ID	Compound	Concentration (ug/L)
TB_HA092105_0001	Acetone	5.2

Sample EB_HA092105_0001 was identified as an equipment blank. No volatile contaminants were found in this blank.

Sample FB_HA092105_0001 was identified as a field blank. No volatile contaminants were found in this blank.

Haley & Aldrich Inc.

Client Sample ID: MWG004_WG092105_0001

GC/MS Volatiles

Lot-Sample #...:	E5I210383-005	**Work Order #...:**	HK4AG1AA	**Matrix.....:**	WG
Date Sampled...:	09/21/05 14:35	**Date Received..:**	09/21/05 17:10	**MS Run #.....:**	5266348
Prep Date.....:	09/23/05	**Analysis Date..:**	09/23/05		
Prep Batch #...:	5266561	**Analysis Time..:**	14:57		
Dilution Factor:	1				
Analyst ID.....:	015590	**Instrument ID..:**	MSQ		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND UJ	2.0	ug/L	0.40
Bromomethane	ND UJ	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.40
Acetone	ND UJ	10	ug/L	2.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.40
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND UJ	5.0	ug/L	2.5
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**13**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	2.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.50
Styrene	ND	1.0	ug/L	0.30

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Haley & Aldrich Inc.

Client Sample ID: MWG004_WG092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-005 Work Order #...: HK4AG1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.40
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND UJ	20	ug/L	10
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND UJ	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND UJ	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND UJ	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	96	(80 - 130)

11/8/05

Haley & Aldrich Inc.

Client Sample ID: EB_HA092105_0001

GC/MS Volatiles

Lot-Sample #...:	E5I210383-006	**Work Order #...:**	HK4AJ1AA	**Matrix.....:**	WG
Date Sampled...:	09/21/05 13:00	**Date Received..:**	09/21/05 17:10	**MS Run #.....:**	5266348
Prep Date.....:	09/23/05	**Analysis Date..:**	09/23/05		
Prep Batch #...:	5266561	**Analysis Time..:**	15:20		
Dilution Factor:	1				
Analyst ID.....:	015590	**Instrument ID..:**	MSQ		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND UJ	2.0	ug/L	0.40
Bromomethane	ND UJ	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.40
Acetone	ND UJ	10	ug/L	2.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.40
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND UJ	5.0	ug/L	2.5
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	2.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.50
Styrene	ND	1.0	ug/L	0.30

(Continued on next page)

11/8/05

Haley & Aldrich Inc.

Client Sample ID: EB_HA092105_0001

GC/MS Volatiles

Lot-Sample #...: E5I210383-006 **Work Order #...:** HK4AJ1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.40
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	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
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	1.0
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND UJ	20	ug/L	10
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND UJ	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND UJ	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND UJ	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND J	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	95	(65 - 135)
Toluene-d8	95	(80 - 130)

11/18/05

LDC #: 14214B1a

VALIDATION COMPLETENESS WORKSHEET

Date: 11/07/05

SDG #: E5I210383

Level III / IV Tier 2/3

Page: 1 of 1

Laboratory: Severn Trent Laboratories, Inc.

Reviewer: JK

2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	~~N~~ A	Sampling dates: 9/21/05
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	
IV.	Continuing calibration	SW	CCV/ICV
V.	Blanks	~~N~~ A	
VI.	Surrogate spikes	~~N~~ A	
VII.	Matrix spike/Matrix spike duplicates	~~N~~ A	None / P (non-client sample)
VIII.	Laboratory control samples	~~N~~ SW	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	~~N~~ A	
XI.	Target compound identification	~~N~~ A	Not reviewed for ~~level~~ Tier 2 validation
XII.	Compound quantitation/CRQLs	~~N~~ A	
XIII.	Tentitatively identified compounds (TICs)	N	
XIV.	System performance	~~N~~ A	
XV.	Overall assessment of data	~~N~~ A	
XVI.	Field duplicates	SW	D = 3, 4
XVII.	Field blanks	SW	FB = 1 TB = 2 EB = 6

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ** Level IV

Water

1	FB_HA092105_0001	11		21		31	
2	TB_HA092105_0001	12		22		32	
3	MWG003_WG092105_0001	13		23		33	
4	MWG003_WG092105_0002 **	14		24		34	
5	MWG004_WG092105_0001	15		25		35	
6	EB_HA092105_0001	16		26		36	
7	MB	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 14214 B19
SDG #: E5I210383

VALIDATION FINDINGS CHECKLIST

Reviewer: JW
2nd Reviewer: R

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) ≥ 0.05?	N/A	✓		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?		✓		
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.		✓		
Was a MS/MSD analyzed every 20 samples of each matrix?		✓		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?		✓		

LDC #: 14214 B1a
SDG #: E5I210383

VALIDATION FINDINGS CHECKLIST

Reviewer: NG
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XI. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?		✓		
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?		✓		
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XVII. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl choride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Tetrahydrofuran
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM.
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

BOE-C6-0105040

LDC #: 14214 B1A
SDG #: ~~E5~~ I210383

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
(Y) N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
Y (N) N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation?_____
Y (N) N/A Did the initial calibration meet the acceptance criteria?
Y (N) N/A Were all %RSDs and RRFs within the validation criteria of ≤30 %RSD and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: ≤30.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	9/21/05	ICAL	FFFF		0.02111	All + Blk	J/UJ/A
			F		0.02250		
			YYY		0.00543		
			GGGG		0.~~08~~ 03397		
			M		0.04393		
			LLLL	36.470	0.03144		
			II		0.03826		
			~~HHH~~				

INICAL1SB

BOE-C6-0105041

LDC #: 14214 B1a
SDG #: ESI210383

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: DC

METHOD: GC/MS VOA (EPA SW 846 Method 8260)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
(Y) N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y (N) N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤25.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	9/21/05	Q 12721	B	33.08328		All + Blk	J/UJ/A
		(ICV)	HH	39.286		↓	↓
	9/23/05	QS 2769	D	25.46328		All + Blk	J/UJ/A
			F	25.87999			
			YYY	35.19012			
			FFFF		0.02486		
			F		0.02833		
			YYY		0.00734		
			GGGG		0.03883		
			M		0.04786		
			LLLL		0.02714		
			II		0.03906		

BOE-C6-0105042

LDC #: 14214 B19
SDG #: E5I210383

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: JNC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?
Y N N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		5266561 LCS	B	157 (60-140)	( )	( )	All + Blk.	J dets /P
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

BOE-C6-0105043

LDC #: 14214 B1a
SDG #: E5121 0383

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: JC
2nd reviewer: JL

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD
	3	4	
PPP	0.45	0.42	7
QQQ	15	14	7
K	0.59	0.60	2
S	74	72	3

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

FLDUP4.1S

LDC #: 14214 B1a
SDG #: E51210383

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: NC
2nd reviewer: M

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?

Sample: 2 Field Blank / Trip Blank / Rinsate / Other _____ (circle one)

Compound	Concentration Units (ug/L)
F	5.2

Sample: _____ Field Blank / Trip Blank / Rinsate / Other_____ (circle one)

Compound	Concentration Units ( )

Sample: _____ Field Blank / Trip Blank / Rinsate / Other_____ (circle one)

Compound	Concentration Units ( )

FLDBLK.1SB

LDC #: 14214 B1a
SDG #: ESI 210383

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: JC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (10 std)	Recalculated RRF (10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	9/21/05	Methylene chloride (1st internal standard)	0.24039	0.24039	0.24407	0.24407	6.712	6.711
			~~Trichlorethene~~ EE (2nd internal standard)	2.0779	2.07790	2.08333	2.08333	2.225	2.225
			~~Toluene~~ 1,1,2,2-TCA (3rd internal standard)	0.38394	0.38394	0.44800	0.44800	11.885	11.886
2			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
3			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
4			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

INICLC.1SB

LDC #: 14214 B1a
SDG #: ~~E~~5I21083

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = $(A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	QS2769	9/23/05	Methylene chloride (1st internal standard)	0.24407	0.28036	0.28036	14.87020	14.8679
			~~Trichlorethene~~ EE (2nd internal standard)	2.08333	2.08543	2.08543	0.10103	0.10088
			~~Toluene~~ BB (3rd internal standard)	0.44800	0.47052	0.47052	5.02847	5.0275
2			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					
3			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					
4			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

BOE-C6-0105047

LDC #: 14214 B1a
SDG #: ESI 210383

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: JC
2nd reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #4

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	10	9.48069	95	95	0
Bromofluorobenzene		~~8.73929.4869~~	87	87	
1,2-Dichloroethane-d4		9.82118	98	98	
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

LDC #: 14214 B10
SDG #: ESI 210383

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: DVG
2nd Reviewer: AC

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
SA = Spike added

RPD = I LCS - LCSD I * 2/(LCS + LCSD)

LCS = Laboraotry control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS ID: 5266561 LCS

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	10	NA	12.0	NA	120	120				
Trichloroethene			8.88		89	89				
Benzene			9.57		96	96				
Toluene			9.39		94	94				
Chlorobenzene			8.86		89	89				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LCSCLC.1SB

BOE-C6-0105049

LDC #: 14214 B1a
SDG #: ESI210383

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: JM
2nd reviewer: K

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 4, QQQ:

Conc. = (132974)(10)( )
(309627)(0.3008)( )( )
= 14.2770
≈ 14.0 ug/L

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

RECALC 1SB