Adapt Engineering, Inc.
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November 9, 2007

Adapt Project No. WA07-15008-PH2

The Echelbarger Company
22833 Bothell Everett Highway, Suite 207
Bothell, WA 98021

Attention: Nicholas Echelbarger

Subject: Limited Phase II Environmental Site Assessment
Marketplace Retail Center
18001 Bothell Everett Highway SE
Bothell, WA 98012

Dear Mr. Echelbarger,

Adapt Engineering, Inc. (Adapt) is pleased to provide you with the results of our Limited Phase II Environmental Site Assessment for the above-referenced site. This report is provided for The Echelbarger Company and their agents. If this report is to be reproduced and/or transmitted to a third party, it must be reproduced and/or transmitted in its entirety. Any exceptions will be made only with the written permission of Adapt. Authorization to perform this project was given by Adapt proposal number P-3057, dated October 5, 2007, signed by Mr. Nicholas Echelbarger on October 12, 2007.

Adapt appreciates the opportunity to be of service to you on this project. Should you have any questions concerning this report, or if we can assist you in any way, please feel free to contact us at (206) 654-7045.

Respectfully Submitted,

Adapt Engineering, Inc.

John T. Bhend, L.G.
Senior Project Manager

JTB/jtb

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Attachments:

Appendix A – Figures and Tables
Appendix B – Subsurface Exploration Procedures and Boring Logs
Appendix C – Laboratory Certification

1.0 INTRODUCTION

1.1 Site Description

The subject site is located at 18001 Bothell Everett Highway SE in Bothell, Washington (Section 18, Township 27 North, Range 5 East, W.M.). The subject site is located at the intersection of Bothell Everett Highway SE and 180th Street SE (Figure 1).

The western tax parcel of the subject site is referred to as the Marketplace Retail Center and currently supports The Plaid Pantry/Shell Station, Key Bank, and two 1983/1984-vintage retail/commercial buildings with a combined thirteen tenant spaces, one of which includes the Prime Cleaners dry cleaners business. The non-building areas of the western tax parcel are asphalt-paved. The eastern tax parcel of the subject site is currently vacant and was previously used as a recreational vehicle (RV) and boat storage lot and consists of an unpaved gravel lot with no buildings.

North Creek is located approximately ½ mile west of the site.

1.2 Project Background

It is our understanding that a gasoline station and dry cleaning facility have been operated at the subject site and that previous soil sampling completed by others indicated elevated concentrations of benzene and tetrachloroethene is soil samples collected at depths up to about 22 feet below ground surface (bgs) at locations in the vicinity of the gasoline station and dry cleaning facility. Based upon this information, a limited Phase II ESA was recommended.

1.3 Purpose

The purpose of this assessment is to evaluate the potential for a large-scale release at the subject site. This preliminary study is not sufficient to delineate the vertical and lateral extent of possible on-site or off-site contamination.

1.4 Scope of Work and Authorization

The scope of work for this project consisted of the collection of soil (and groundwater, if present) and analytical testing of recovered samples for dry cleaning solvents and petroleum hydrocarbons. Authorization to perform this project was given by Adapt proposal number P-3057, dated October 5, 2007, signed by Mr. Nicholas Echelbarger on October 12, 2007.

2.0 ACTIVITIES

2.1 Sample Collection and Observations

The originally proposed scope of work consisted of the advancement of five hollow stem auger (HSA) borings on the subject property, with three of the borings to be completed as 2-inch diameter PVC groundwater monitoring wells. However, only three borings were completed because of increased drilling depths at one location and time delays caused by damage to an unmarked underground irrigation water line. All three borings were completed as groundwater monitoring wells.

Boring B-5 (completed as MW-1) was advanced to a depth of 42 feet bgs, boring B-6

(completed as MW-2) was advanced to a depth of 30 feet bgs, and boring B-7 (completed as MW-3) was advanced to a depth of 35 feet bgs. Monitoring well MW-1 was constructed of 15 feet of 0.010-inch slotted PVC screen and monitoring wells MW-2 and MW-3 were constructed of 10 feet of 0.010-inch slotted PVC screen. Each well was completed flush to grade with a traffic rated monument and each well head was secured with a locking airtight cap.

The borings were advanced using a track-mounted drill rig owned and operated by Cascade Drilling, Inc., under subcontract to our firm. The borings were supervised, sampled, and logged by an Adapt Licensed Geologist.

Soil samples were collected at 5-foot intervals from the site exploration. Discrete soil samples for volatile compounds were collected in compliance with EPA Method 5035A. Samples were collected using a Power Stop Handle and Easy Draw Syringe. The syringe was pushed into the core or the bottom of the borehole to obtain an approximately 5-gram soil sample. The soil core was then placed in an empty 40 ml glass vial with a Teflon lined lid with septum. Discrete soil samples from non-volatile compounds were collected using a gloved hand and transferred to a clean 4-ounce glass jar with a Teflon lined lid. After collection, the samples were immediately transported to a subcontracted analytical laboratory under Adapt's chain-of-custody procedures. All soil samples were field screened using a MiniRae 10.6ev Photoionization Detector (PID).

A submersible pump was used to purge water from the monitoring wells until the water became relatively clear and free of significant sediment prior to sampling. Samples were then collected in laboratory prepared glass containers with teflon-lined lids using polyethylene tubing and extracting the sample using a peristaltic pump. Then, as with the soil samples, the groundwater samples were stored at 4 degrees C, and transported as soon as possible to a subcontracted analytical laboratory under Adapt's chain-of-custody procedures.

A differential leveling survey was conducted to determine the relative elevation of each wellhead.

Figure 2 shows the approximate locations of the borings, site boundaries, and pertinent site features. Subsurface exploration logs and soil sampling procedures are described in Appendix B.

3.0 RESULTS

3.1 Subsurface Conditions - Soil

The site borings located near the gasoline station and dry cleaning facility generally disclosed dense to very dense, moist, brown, sand with varying amounts of silt and gravel that extended to a depth of approximately 30 to 35 feet bgs. Wet soils were generally encountered around approximately 25 feet bgs. The site boring located in the eastern portion of the asphalt-paved parking lot generally disclosed dense to very dense, moist, brown, gravelly sand with silt that extended to a depth of approximately 18 feet bgs. The underlying soils were interpreted to be hard, moist, gray, silt that extended to approximately 40 feet bgs. The underlying soils were interpreted to be very dense, wet, gray silty fine sand to a depth of approximately 42 feet bgs. All recovered soil samples were field screened using a MiniRae Photoionization Detector (PID).

Samples collected from B-6 exhibited gasoline petroleum odors and measurable PID readings ranged from 18 to 234 parts-per-million (ppm). Samples collected from B-5 and B-7 did not exhibit obvious signs of contaminant impacts such as stains, or odors, and measurable PID

readings ranged from 0.0 to 0.3 ppm.

3.2 Subsurface Conditions - Groundwater

Groundwater levels were observed across the subject site at depths ranging from approximately 20.7 to 25.5 feet bgs in the monitoring wells prior to sampling activities (see Table 1). Based on the observed groundwater level measurements, the inferred groundwater flow direction appears to be toward the west-southwest.

Groundwater samples were collected from monitoring wells MW-1, MW-2, and MW-3 on October 25, 2007. We did not observe a sheen or light, non-aqueous phase liquid (LNAPL) at the time of our sampling.

4.0 QUANTITATIVE ANALYSES

The analytical testing was performed by Friedman & Bruya's laboratory in Seattle, Washington, which is a Washington state certified laboratory.

Selected soil and groundwater samples were analyzed for gasoline-range Total Petroleum Hydrocarbons (TPH) by Ecology Method NWTPH-Gx; benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8021B; and volatile organic compounds (VOCs) by EPA method 8260B.

Soil

Soil samples B-6:2' and B-6-25' exhibited detectable concentrations of gasoline-range TPH and BTEX. Gasoline-range TPH (43 parts-per-million (ppm)) was detected at a concentration above the Model Toxics Control Act (MTCA) Method A Soil Cleanup Level for Unrestricted Land Uses value of 30 ppm in sample B-6:2'. Benzene (1.4 ppm and 0.65 ppm) was detected at concentrations above the MTCA Method A Soil Cleanup Level for Unrestricted Land Uses value of 0.03 ppm in samples B-6:2' and B-6:25', respectively.

Analytical test results are summarized in Table 2, and analytical test certificates are included in Appendix C.

Groundwater

The groundwater sample collected from MW-1 did not exhibit detectable concentrations of gasoline-range TPH and VOCs.

The groundwater sample collected from MW-2 exhibited detectable concentrations of gasoline-range TPH and BTEX. Benzene (42 parts-per-billion (ppb)) was detected at a concentration above the MTCA Method A Cleanup Level for Groundwater value of 5 ppb.

The groundwater sample collected from MW-3 exhibited detectable concentrations of tetrachloroethene and chloroform. Tetrachloroethene (45 ppb) was detected at a concentration above the MTCA Method A Cleanup Level for Groundwater value of 5 ppb.

Analytical results are summarized on Table 3, and analytical test certificates are included in Appendix C.

5.0 CONCLUSIONS AND RECOMMENDATIONS

It is our understanding that a gasoline station and dry cleaning facility have been operated at the subject site and that previous soil sampling completed by others indicated elevated concentrations of benzene and tetrachloroethene is soil samples collected at depths up to about 22 feet bgs at locations in the vicinity of the gasoline station and dry cleaning facility. Based upon this information, a limited Phase II ESA was recommended. The results of the Limited Phase II ESA appear to indicate obvious indications that possible significant impacts to soil and groundwater have resulted from the operations associated with the on-site gasoline station and dry cleaning facility.

In Adapt's opinion, the presence of contaminated soil and groundwater at the subject property represents a potential "Recognized Environmental Condition" to the site. The MTCA Cleanup Regulation Chapter 173-340-300(2) describes the requirements for reporting hazardous substance releases to Ecology. It is Adapt's professional opinion that it would be prudent for the property owner/operator to consult with an environmental attorney to discuss issues relating to the reporting requirements, and how they may apply to the conditions at the subject site.

Given that our assessment was limited and peripheral to the potential source areas, it is possible that a release may have occurred that was not discovered during our assessment. If future subsurface work encounters, stained, odorous, or otherwise contaminated soils, such soils should be managed as contaminated soils, which may include additional analytical testing an off-site treatment or disposal.

6.0 LIMITATIONS

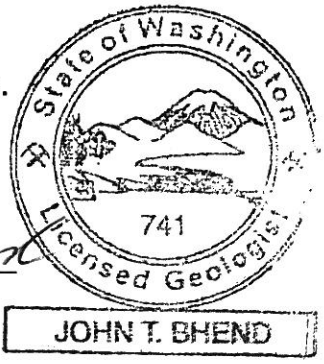
Information contained in this report is based upon site characterization, field observations, and the laboratory analyses completed for this study. Conclusions presented are professional opinions based upon our interpretation of the analytical laboratory test results, as well as our experience and observations during the field activities. The location and depth of the exploration, as well as the analytical scope were completed within the site and proposal constraints. Adapt's observations and the analytical data are limited to the vicinity of each test probe and do not necessarily reflect conditions across the site. No other warranty, express or implied is made. In the event that additional information regarding either the site or surrounding properties becomes known, or changes to existing conditions occurs, the conclusions in this report should be reviewed, and if necessary, revised to reflect the updated information. Project specific limitations are presented in the appropriate sections of this report.

This report has been prepared for the exclusive use of The Echelbarger Company and their agents for specific application to the project site. Use or reliance upon this report by a third is at their own risk. Adapt does not make any representation or warranty, express or implied, to such other parties as to the accuracy or completeness of this report or the suitability of its use by such other parties for any purpose whatever, known or unknown, to Adapt.

Adapt appreciates the opportunity to be of service to you on this project. Should you have any questions concerning this report, or if we can assist you in any way, please contact us at (206) 654-7045.

Respectfully Submitted,

Adapt Engineering, Inc.



John T. Bhend, L. G.
Senior Project Manager

Daryl S. Petrarca, L.H.G.
Principal

JTB/jtb

APPENDIX A

FIGURES AND TABLES

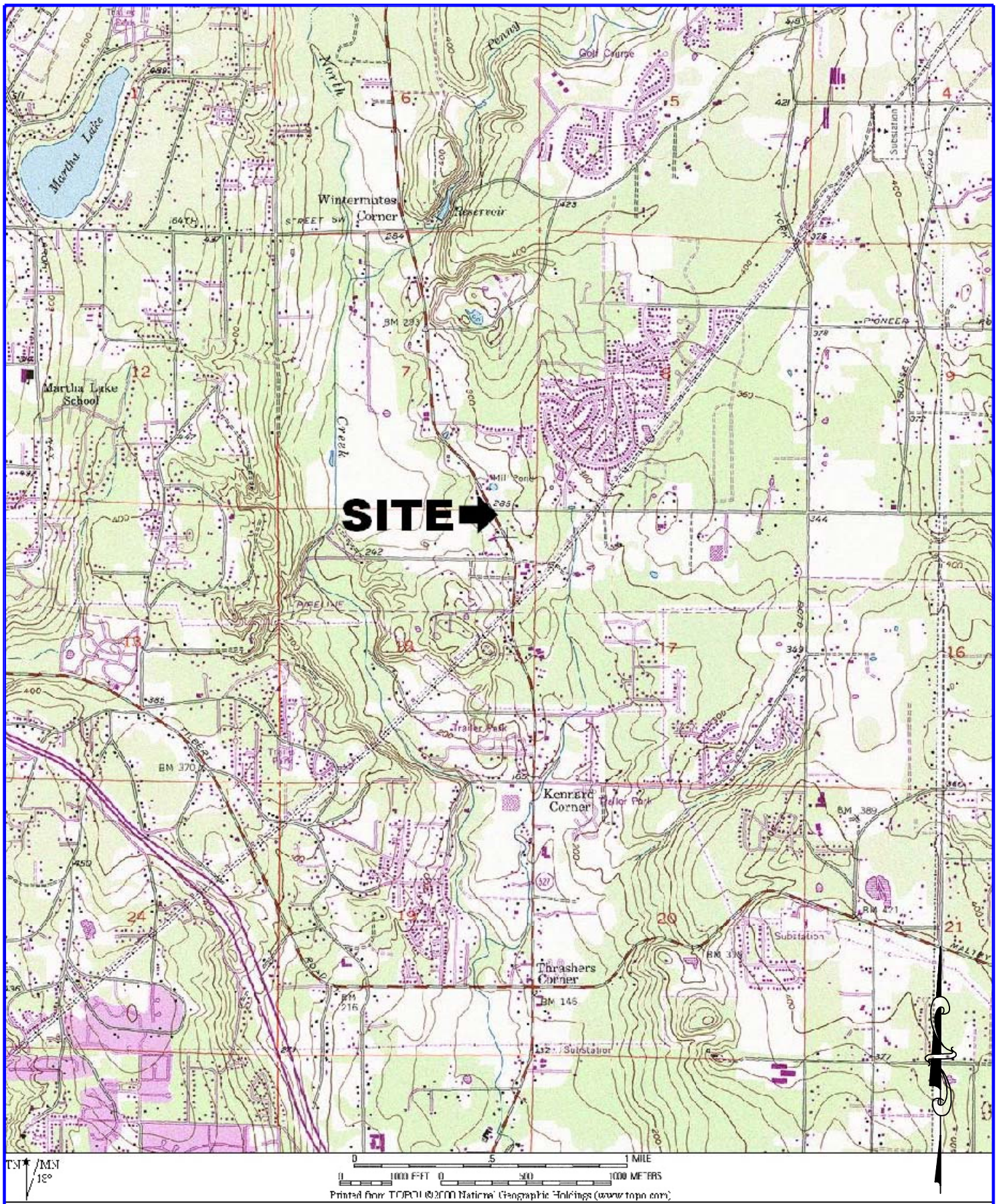


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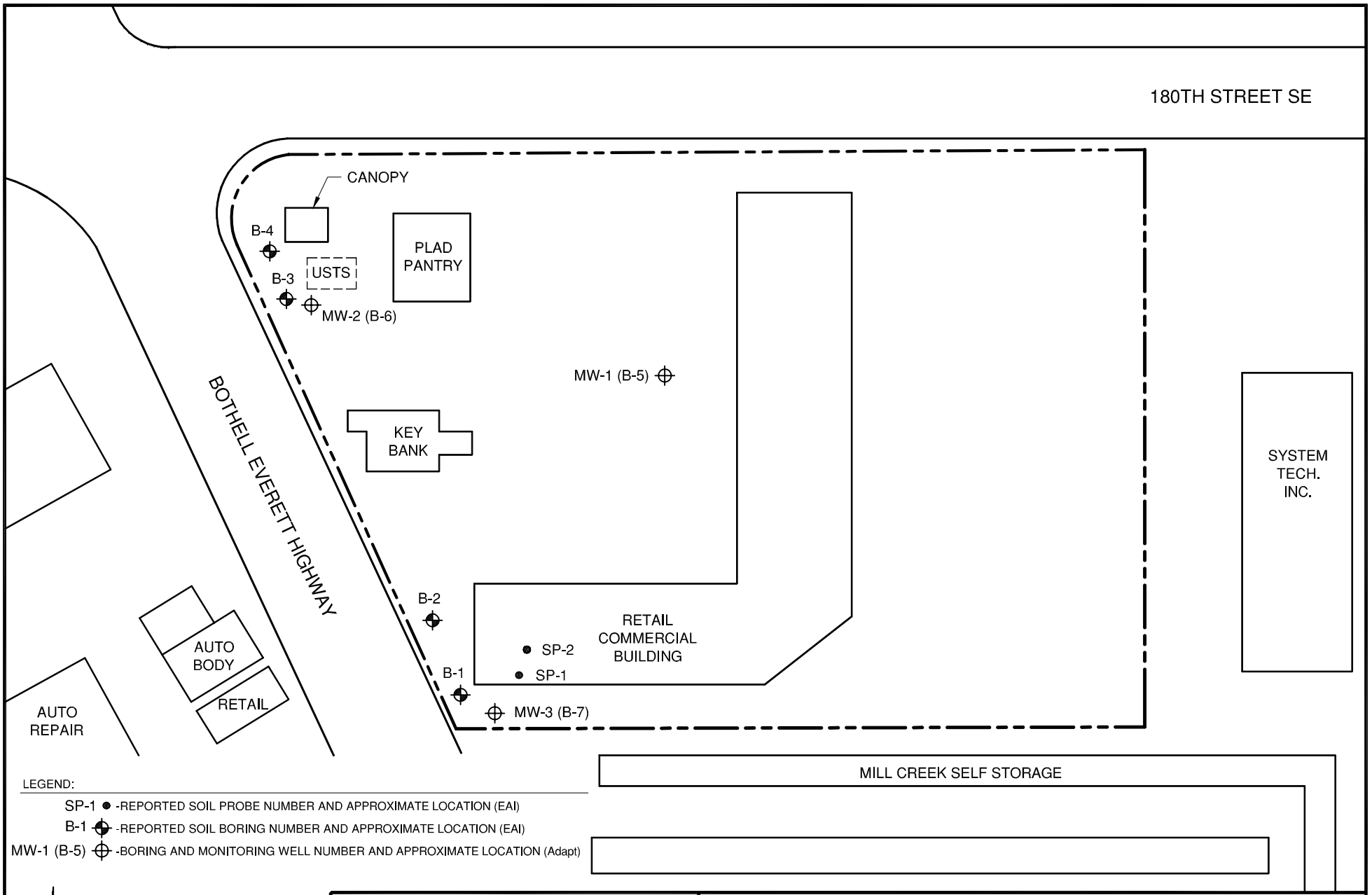
FIGURE 1 - Location/Topographic Map

Project : Marketplace Retail Center
Location : 18001 Bothell Everett Highway SE
Bothell, WA 98012
Client : The Echelbarger Company
Project No : WA07-15008-PH1 **Date** : 11/05/07



NOT TO SCALE

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FIGURE 2 - Site and Exploration Plan

Project : Marketplace Retail Center
Location : 18001 Bothell Everett Highway SE
Bothell, WA 98012
Client : The Echelbarger Company
Project No : WA07-15008-PH1 **Date** : 11/05/07

Table 1: Well Elevations and Water Levels

Well ID	MW-1	MW-2	MW-3
	Top of Casing Elevation (feet)		
	99.38	93.01	99.82
Date	**Depth to Water (feet)**		
10/25/2007	21.83	20.67	25.50
10/31/2007	21.99	20.62	25.68
	Water Level Elevation (feet)		
10/25/2007	77.55	72.34	74.32
10/31/2007	77.39	72.39	74.14

Notes:
Site datum assigned elevation of 100.00 feet

Table 2: Summary of Analytical Results - Soil

	3/9/1999 (EAI)						10/24/2007 (Adapt)			MTCA
Sample ID	B-1-5	B-2-4/5	SP-1	SP-2	B-3-4/5	B-4-4/5	B-6		B-7	Method A
Depth	22.5'	17.5'/22.5'	4-6'	0-2'	17.5'/22.5'	17.5'/22.5'	2'	25'	30'	Cleanup
TPH-Gx	NT	NT	NT	NT	<5.6	<5.6	**43**	18	NT	30/100*
Benzene	NT	NT	NT	NT	**0.065**	<0.056	**1.4**	**0.65**	<0.03	0.03
Toluene	NT	NT	NT	NT	<0.056	<0.056	0.56	1.8	<0.05	7
Ethylbenzene	NT	NT	NT	NT	<0.056	<0.056	0.34	0.25	<0.05	6
Total xylenes	NT	NT	NT	NT	<0.056	<0.056	2.6	2.1	<0.1	9
Tetrachloroethene	**0.2**	<0.057	**0.24**	**0.56**	NT	NT	NT	NT	**0.063**	0.05
Trichloroethene	<0.057	<0.057	<0.054	<0.053	NT	NT	NT	NT	<0.03	0.03
cis-1,2-dichloroethene	0.33	<0.057	<0.054	<0.053	NT	NT	NT	NT	<0.05	NV
Chloroform	<0.057	<0.057	<0.054	<0.053	NT	NT	NT	NT	<0.05	NV

Bolded values indicates exceedance of the MTCA Method A cleanup level

All concentrations given in parts per million (ppm), which is equivalent to milligrams per kilogram

* = Value is 30 ppm if benzene is detected, 100 ppm if benzene is not detected

NT = Not tested

NA = Not available

NV = No value has been established for this compound

TPH-Gx = Total petroleum hydrocarbons – gasoline

MTCA = Model Toxics Control Act (MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses shown)

Table 3: Summary of Analytical Results - Groundwater

	10/31/2007 (Adapt)			MTCA
	MW-1	MW-2	MW-3	Method A
TPH-Gx	<100	320	NT	800/1,000*
Benzene	<1	**42**	<1	5
Toluene	<1	10	<1	1,000
Ethylbenzene	<1	1	<1	700
Total xylenes	<3	7	<2	1,000
Tetrachloroethene	<1	NT	**45**	5
Trichloroethene	<1	NT	<1	5
cis-1,2-dichloroethene	<1	NT	<1	NV
Chloroform	<1	NT	1.3	NV

Bolded values indicates exceedance of the MTCA Method A cleanup level

All concentrations given in parts per billion (ppb), which is equivalent to micrograms per liter

* = Value is 800 ppb if benzene is detected, 1000 ppb if benzene is not detected

NT = Not tested

NA = Not available

NV = No value has been established for this compound

TPH-Gx = Total petroleum hydrocarbons – gasoline

MTCA = Model Toxics Control Act (MTCA Method A Groundwater Cleanup Levels shown)

APPENDIX B

SUBSURFACE EXPLORATION PROCEDURES AND BORING LOGS

APPENDIX B

SUBSURFACE EXPLORATION PROCEDURES AND BORING LOGS

Hollow-Stem Auger Borings

The field exploration program conducted for this study consisted of advancing a series of three (3) hollow-stem auger borings. The approximate locations are illustrated on Figure 2. These locations were obtained in the field by taping and pacing from existing site features.

The hollow-stem auger borings were advanced on October 22-24, 2007 by Cascade Drilling, Inc., a local exploration drilling company under subcontract to our firm. Each boring consisted of advancing a 4-inch inside diameter hollow-stem auger with a track-mounted drill rig. During the drilling process, soil samples were generally obtained at 5-foot depth intervals. The borings were continuously observed and logged in the field by a geologist from our firm.

Prior to each boring, the hollow-stem augers were pressure-washed with hot water and sampling tools were scrubbed with a stiff brush and a solution of Liquinox (a phosphate free detergent) and water, and then rinsed with potable water and deionized water.

Characterization of Soil

Disturbed soil samples were collected at 5-foot intervals by using the Standard Penetration Test Procedure, as described in ASTM: D-1586. This test and sampling method consists of driving a standard 3-inch outside diameter split-barrel sampler a distance of 18 inches into the soil with a 140-pound hammer free falling a distance of 30 Inches. The number of blows for each 6-inch interval is recorded. The number of blows required to drive the sampler the final 12 inches is considered the Standard Penetration Resistance "N" or blow count. The blow counts are presented in the boring logs in this appendix. If a total of 50 blows are recorded within one 6-inch interval, the blow count is recorded as 50 blows for the actual number of inches of penetration. The blow count or N" value, provides a measure of the relative density of granular soils or the relative consistency of cohesive soils.

All soil samples were field screened using a MiniRae 10.6ev Photoionization Detector (PID). Field screen samples were collected from the remaining soil in the sampled interval. A representative soil sample was placed in a Ziplock® type plastic bag and sealed. The sample was allowed to volatilize for at least 10 minutes prior to obtaining a reading. The PID tip was inserted in small hole poked in the bag just prior to reading. The highest PID reading observed was recorded on the boring log sheet, as were any subjective olfactory impressions of the sample by the on-site geologist.

Monitoring Well Construction

The monitoring well was constructed of ten (10) to fifteen (15) feet of 2-inch diameter schedule 40 PVC well screen (0.010 slot size) with the remainder of the wells constructed of 2-inch diameter schedule 40 PVC casing. The screened interval for MW-1 was set at 27 feet to 42 feet bgs, MW-2 was set at 20 feet to 30 feet bgs, and MW-3 was set at 25 feet to 35 feet bgs. Filter pack sand (2/12 sand) was placed around the well screen up to a level approximately two (2) feet above the top of the well screen. Bentonite chips were placed above the filter pack sand to a level approximately two (2) feet bgs. A surface seal consisting of concrete was placed around the well casing and flush-mount well monument from a depth of approximately two (2) feet bgs up to the ground surface.

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BORING/MONITORING WELL LOG

Project : Marketplace Retail Center
Location : 18001 Bothell Everett Highway SE
Bothell, WA 98012
Client : The Echelbarger Company
Project No : WA07-15008-PH1

Boring No. : **B-5**

Monitoring Well No.: **MW-1**

Ground Surface Elevation : N/A **Casing Elevation :** N/A
Elevation Reference : N/A

Page : 01 of 02

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNT	PID READING	GROUND WATER	WELL	LABORATORY TESTING
0	2" asphalt over very dense, moist, brown, gravelly, medium SAND with trace silt						Flush-mounted well monument with concrete seal	
5			5'	23 50/5"	0.0		Bentonite chips	
10			10'	50/3"	0.0		2" I.D. schedule 40 PVC with Bentonite backfill	
15			15'	50/3"	0.0			
20	Hard, moist, gray, SILT with clay		20'	38 27 42	0.0	▽ 10/31 2007		
25			25'	50/5"	0.0		Select #2/12 sand backfill	
30							2" I.D. schedule 40 PVC with 0.010" slots	

LEGEND

- 2-inch O. D. Split-Spoon Sample (SPT Blowcount)
- 3 ¼ - Inch O.D. Dames & Moore Sample (Equivalent SPT Blowcount Shown)
- Shelby Tube Sample
- Grab Sample (Soil Cuttings)
- Sample not Recovered
- ATD — Static Water Level at Time of Drilling
- DATE — Static Water Level Reading
- Perched Groundwater
- D.O.T. Approved Flush-Mounted Well Monument with Concrete Seal
- 2" I.D. Schedule 40 PVC with Bentonite Backfill
- 2" Schedule 40 PVC with 0.20-inch slots and Select 10-20 Sand Backfill
- Bentonite Backfill
- WTPH-D Ext. / 8010 — Type of Analytical Testing Performed
- XX — Grain Size Analysis (% fines shown)
- XX — 200 Wash (% fines shown)
- TV - Torvane Reading (tsf)
- PP - Pocket Pentetrometer Reading (tsf)
- PID - Photo Ionization Detector (PPM)
- SPT - Standard Penetration Test

MOISTURE CONTENT
0 10 20 30 40 50
Plastic Limit — Natural — Liquid Limit

File Name : Boring & Monitoring Well Log.dwg

Start Date : 10/22/07 Completion Date : 10/22/07 Logged By : J.T.B.

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BORING/MONITORING WELL LOG

Project : Marketplace Retail Center
Location : 18001 Bothell Everett Highway SE
Bothell, WA 98012
Client : The Echelbarger Company
Project No : WA07-15008-PH1

Boring No. : **B-5**

Monitoring Well No.: **MW-1**

Ground Surface Elevation : N/A **Casing Elevation :** N/A
Elevation Reference : N/A

Page : 02 of 02

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNT	PID READING	GROUND WATER	WELL	LABORATORY TESTING
30	Hard, moist, brown, gray, SILT with clay		30'	26 50/6"	0.0			
35			35'	30 50/6"	0.0		Select #2/12 sand backfill 2" I.D. schedule 40 PVC with 0.010" slots	
40	Trace gravel		40'	50/5"	0.0	ATD		
	Very dense, wet, gray, silty fine SAND							
	Boring terminated @ ~42.0' bgs Groundwater encountered @ 41.0' bgs							
45								
50								
55								
60								

LEGEND

- 2-inch O. D. Split-Spoon Sample (SPT Blowcount)
- 3 ¼ - Inch O.D. Dames & Moore Sample (Equivalent SPT Blowcount Shown)
- Shelby Tube Sample
- Grab Sample (Soil Cuttings)
- Sample not Recovered
- ATD — Static Water Level at Time of Drilling
- DATE — Static Water Level Reading
- Perched Groundwater
- D.O.T. Approved Flush-Mounted Well Monument with Concrete Seal
- 2" I.D. Schedule 40 PVC with Bentonite Backfill
- 2" Schedule 40 PVC with 0.20-inch slots and Select 10-20 Sand Backfill
- Bentonite Backfill
- WTPH-D Ext. 8010 — Type of Analytical Testing Performed
- XX — Grain Size Analysis (% fines shown)
- XX — 200 Wash (% fines shown)
- TV - Torvane Reading (tsf)
- PP - Pocket Pentetrometer Reading (tsf)
- PID - Photo Ionization Detector (PPM)
- SPT - Standard Penetration Test

MOISTURE CONTENT
0 10 20 30 40 50
Plastic Limit — Natural — Liquid Limit

File Name : Boring & Monitoring Well Log (G&W2).dwg

Start Date : 10/22/07 Completion Date : 10/22/07 Logged By : J.T.B.

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BORING/MONITORING WELL LOG

Project : Marketplace Retail Center
Location : 18001 Bothell Everett Highway SE
Bothell, WA 98012
Client : The Echelbarger Company
Project No : WA07-15008-PH1

Boring No. : **B-6**

Monitoring Well No.: **MW-2**

Ground Surface Elevation : N/A **Casing Elevation :** N/A
Elevation Reference : N/A

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNT	PID READING	GROUND WATER	WELL	LABORATORY TESTING
0	2" asphalt over very dense, moist, brown, fine to medium SAND with little gravel		2'		105		Flush-mounted well monument with concrete seal	TPH-GX BTEX
5	Becomes gray		5'	50/6"	67		Bentonite chips	
10	No recovery in sampler		10'	50/6"			2" I.D. schedule 40 PVC with Bentonite backfill	
15	Becomes fine SAND with little silt		15'	50/5"	78.9			
20	Becomes fine SAND with little gravel		20'	50/4"	18.1	10/31 2007		
25	Becomes wet		25'	50/6"	234	ATD	Select #2/12 sand backfill	TPH-GX BTEX
30							2" I.D. schedule 40 PVC with 0.010" slots	

LEGEND

- 2-inch O. D. Split-Spoon Sample (SPT Blowcount)
- 3 ¼ - Inch O.D. Dames & Moore Sample (Equivalent SPT Blowcount Shown)
- Shelby Tube Sample
- Grab Sample (Soil Cuttings)
- Sample not Recovered
- ATD — Static Water Level at Time of Drilling
- DATE — Static Water Level Reading
- Perched Groundwater
- D.O.T. Approved Flush-Mounted Well Monument with Concrete Seal
- 2" I.D. Schedule 40 PVC with Bentonite Backfill
- 2" Schedule 40 PVC with 0.20-inch slots and Select 10-20 Sand Backfill
- Bentonite Backfill
- WTPH-D Ext. 8010 — Type of Analytical Testing Performed
- XX — Grain Size Analysis (% fines shown)
- 200 Wash (% fines shown)
- TV - Torvane Reading (tsf)
- PP - Pocket Pentetrometer Reading (tsf)
- PID - Photo Ionization Detector (PPM)
- SPT - Standard Penetration Test

MOISTURE CONTENT
0 10 20 30 40 50
Plastic Limit — Natural — Liquid Limit

File Name : Boring & Monitoring Well Log.dwg

Start Date : 10/24/07 **Completion Date :** 10/24/07 **Logged By :** J.T.B.

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BORING/MONITORING WELL LOG

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Location : 18001 Bothell Everett Highway SE
Bothell, WA 98012
Client : The Echelbarger Company
Project No : WA07-15008-PH1

Boring No. : **B-6**

Monitoring Well No.: **MW-2**

Ground Surface Elevation : N/A **Casing Elevation :** N/A
Elevation Reference : N/A

Page : 02 of 02

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNT	PID READING	GROUND WATER	WELL	LABORATORY TESTING
30	Very dense, wet, gray, fine SAND with little gravel		30'	50/6"	64.8			
	Boring terminated @ ~30.5' bgs							
	Groundwater encountered @ 25.0' bgs							
35								
40								
45								
50								
55								
60								

LEGEND

- 2-inch O. D. Split-Spoon Sample (SPT Blowcount)
- 3 ¼ - Inch O.D. Dames & Moore Sample (Equivalent SPT Blowcount Shown)
- Shelby Tube Sample
- Grab Sample (Soil Cuttings)
- Sample not Recovered
- ATD — Static Water Level at Time of Drilling
- DATE — Static Water Level Reading
- Perched Groundwater
- D.O.T. Approved Flush-Mounted Well Monument with Concrete Seal
- 2" I.D. Schedule 40 PVC with Bentonite Backfill
- 2" Schedule 40 PVC with 0.20-inch slots and Select 10-20 Sand Backfill
- Bentonite Backfill
- NWTPH-D Ext. 8010 — Type of Analytical Testing Performed
- XX — Grain Size Analysis (% fines shown)
- XX — 200 Wash (% fines shown)
- TV - Torvane Reading (tsf)
- PP - Pocket Pentetrometer Reading (tsf)
- PID - Photo Ionization Detector (PPM)
- SPT - Standard Penetration Test

MOISTURE CONTENT
0 10 20 30 40 50
Plastic Limit — Natural — Liquid Limit

File Name : Boring & Monitoring Well Log (G&W2).dwg

Start Date : 10/24/07 Completion Date : 10/24/07 Logged By : J.T.B.

Adapt Engineering, Inc.
615 - 8th Avenue South
Seattle, Washington 98104

Tel (206) 654-7045
Fax (206) 654-7048

BORING/MONITORING WELL LOG

Project : Marketplace Retail Center
Location : 18001 Bothell Everett Highway SE
Bothell, WA 98012
Client : The Echelbarger Company
Project No : WA07-15008-PH1

Boring No. : **B-7**

Monitoring Well No.: **MW-3**

Ground Surface Elevation : N/A **Casing Elevation :** N/A
Elevation Reference : N/A

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNT	PID READING	GROUND WATER	WELL	LABORATORY TESTING
0	2" asphalt over very dense, moist, brown, gravelly, medium SAND							Flush-mounted well monument with concrete seal
5			5'	50/5"	0.0			Bentonite chips
10			10'	50/3"	0.0			2" I.D. schedule 40 PVC with Bentonite backfill
15	Becomes silty fine SAND		15'	50/4"	0.2			
20	No recovery in sampler		20'	50/4"				
25	No recovery in sampler		25'	50/2"	0.0	10/31 2007		Select #2/12 sand backfill
30						ATD		2" I.D. schedule 40 PVC with 0.010" slots

LEGEND

- 2-inch O. D. Split-Spoon Sample (SPT Blowcount)
- 3 ¼ - Inch O.D. Dames & Moore Sample (Equivalent SPT Blowcount Shown)
- Shelby Tube Sample
- Grab Sample (Soil Cuttings)
- Sample not Recovered
- ATD — Static Water Level at Time of Drilling
- DATE — Static Water Level Reading
- Perched Groundwater
- D.O.T. Approved Flush-Mounted Well Monument with Concrete Seal
- 2" I.D. Schedule 40 PVC with Bentonite Backfill
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- PID - Photo Ionization Detector (PPM)
- SPT - Standard Penetration Test

MOISTURE CONTENT
0 10 20 30 40 50
Plastic Limit — Natural — Liquid Limit

File Name : Boring & Monitoring Well Log.dwg

Start Date : 10/23/07 Completion Date : 10/23/07 Logged By : J.T.B.

Adapt Engineering, Inc.
615 - 8th Avenue South
Seattle, Washington 98104

Tel (206) 654-7045
Fax (206) 654-7048

BORING/MONITORING WELL LOG

Project : Marketplace Retail Center
Location : 18001 Bothell Everett Highway SE
Bothell, WA 98012
Client : The Echelbarger Company
Project No : WA07-15008-PH1

Boring No. : **B-7**

Monitoring Well No.: **MW-3**

Ground Surface Elevation : N/A **Casing Elevation :** N/A
Elevation Reference : N/A

Page : 02 of 02

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNT	PID READING	GROUND WATER	WELL	LABORATORY TESTING
30	Very dense, wet, brown, silty fine SAND		30'	37 50/5"	0.0		Select #2/12 sand backfill 2" I.D. schedule 40 PVC with 0.010" slots	
35	Becomes gravelly coarse SAND		35'	4 7 50/6"	0.0			
	Boring terminated @ ~36.5' bgs Groundwater encountered @ 29.75' bgs							
40								
45								
50								
55								
60								

MOISTURE CONTENT
0 10 20 30 40 50
Plastic Limit — Natural — Liquid Limit

LEGEND

- 2-inch O. D. Split-Spoon Sample (SPT Blowcount)
- 3 ¼ - Inch O.D. Dames & Moore Sample (Equivalent SPT Blowcount Shown)
- Shelby Tube Sample
- Grab Sample (Soil Cuttings)
- Sample not Recovered
- ATD — Static Water Level at Time of Drilling
- DATE — Static Water Level Reading
- Perched Groundwater
- D.O.T. Approved Flush-Mounted Well Monument with Concrete Seal
- 2" I.D. Schedule 40 PVC with Bentonite Backfill
- 2" Schedule 40 PVC with 0.20-inch slots and Select 10-20 Sand Backfill
- Bentonite Backfill
- NWTPH-D Ext. 8010 — Type of Analytical Testing Performed
- XX — Grain Size Analysis (% fines shown)
- XX — 200 Wash (% fines shown)
- TV - Torvane Reading (tsf)
- PP - Pocket Pentetrometer Reading (tsf)
- PID - Photo Ionization Detector (PPM)
- SPT - Standard Penetration Test

File Name : Boring & Monitoring Well Log (G&W2).dwg

Start Date : 10/23/07 Completion Date : 10/23/07 Logged By : J.T.B.

APPENDIX C

LABORATORY CERTIFICATION

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

November 1, 2007

John Bhend, Project Manager
Adapt Engineering
615 8th Avenue South
Seattle, WA 98104

Dear Mr. Bhend:

Included are the results from the testing of material submitted on October 24, 2007 from the WA07-15008-PH2, F&BI 710321 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
ADP1101R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 24, 2007 by Friedman & Bruya, Inc. from the Adapt Engineering WA07-15008-PH2, F&BI 710321 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Adapt Engineering
710321-01	B-6:2'
710321-02	B-6:25'
710321-03	B-7:30'

All quality control requirements were acceptable.

Date of Report: 11/01/07
Date Received: 10/24/07
Project: WA07-15008-PH2, F&BI 710321
Date Extracted: 10/25/07
Date Analyzed: 10/25/07

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
B-6:2' 710321-01	1.4	0.56	0.34	2.6	43	103
B-6:25' 710321-02	0.65	1.8	0.25	2.1	18	101
Method Blank	<0.02	<0.02	<0.02	<0.06	<2	93

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID:	B-7:30'	Client:	Adapt Engineering
Date Received:	10/24/07	Project:	WA07-15008-PH2, F&BI 710321
Date Extracted:	10/25/07	Lab ID:	710321-03
Date Analyzed:	10/26/07	Data File:	102527.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	86	32	147
1,2-Dichloroethane-d4	98	35	150
Toluene-d8	87	35	149
4-Bromofluorobenzene	92	42	164

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	Tetrachloroethene	0.063
Chloromethane	<0.05	Dibromochloromethane	<0.05
Vinyl chloride	<0.05	1,2-Dibromoethane (EDB)	<0.05
Bromomethane	<0.5	Chlorobenzene	<0.05
Chloroethane	<0.5	Ethylbenzene	<0.05
Trichlorofluoromethane	<0.5	1,1,1,2-Tetrachloroethane	<0.05
Acetone	<0.5	m,p-Xylene	<0.1
1,1-Dichloroethene	<0.05	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon Tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.05
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.1
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.1
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.1
1,3-Dichloropropane	<0.05		

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID:	Method Blank	Client:	Adapt Engineering
Date Received:	Not Applicable	Project:	WA07-15008-PH2, F&BI 710321
Date Extracted:	10/25/07	Lab ID:	071656 mb
Date Analyzed:	10/25/07	Data File:	102505.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	83	32	147
1,2-Dichloroethane-d4	86	35	150
Toluene-d8	86	35	149
4-Bromofluorobenzene	110	42	164

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	Tetrachloroethene	<0.025
Chloromethane	<0.05	Dibromochloromethane	<0.05
Vinyl chloride	<0.05	1,2-Dibromoethane (EDB)	<0.05
Bromomethane	<0.5	Chlorobenzene	<0.05
Chloroethane	<0.5	Ethylbenzene	<0.05
Trichlorofluoromethane	<0.5	1,1,1,2-Tetrachloroethane	<0.05
Acetone	<0.5	m,p-Xylene	<0.1
1,1-Dichloroethene	<0.05	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon Tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.05
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.1
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.1
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.1
1,3-Dichloropropane	<0.05		

Date of Report: 11/01/07
Date Received: 10/24/07
Project: WA07-15008-PH2, F&BI 710321

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code:710321-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	0.65	0.60	8
Toluene	mg/kg (ppm)	1.8	1.7	6
Ethylbenzene	mg/kg (ppm)	0.25	0.25	0
Xylenes	mg/kg (ppm)	2.1	2.1	0
Gasoline	mg/kg (ppm)	18	19	5

Laboratory Code:Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	86	70-130
Toluene	mg/kg (ppm)	0.5	90	70-130
Ethylbenzene	mg/kg (ppm)	0.5	92	70-130
Xylenes	mg/kg (ppm)	1.5	90	70-130
Gasoline	mg/kg (ppm)	20	86	70-130

Date of Report: 11/01/07
Date Received: 10/24/07
Project: WA07-15008-PH2, F&BI 710321

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code:710331-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	<0.05	<0.05	nm
Chloromethane	mg/kg (ppm)	<0.05	<0.05	nm
Vinyl chloride	mg/kg (ppm)	<0.05	<0.05	nm
Bromomethane	mg/kg (ppm)	<0.5	<0.5	nm
Chloroethane	mg/kg (ppm)	<0.5	<0.5	nm
Trichlorofluoromethane	mg/kg (ppm)	<0.5	<0.5	nm
Acetone	mg/kg (ppm)	<0.5	<0.5	nm
1,1-Dichloroethene	mg/kg (ppm)	<0.05	<0.05	nm
Methylene chloride	mg/kg (ppm)	<0.5	<0.5	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	<0.05	<0.05	nm
1,1-Dichloroethane	mg/kg (ppm)	<0.05	<0.05	nm
2,2-Dichloropropane	mg/kg (ppm)	<0.05	<0.05	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	<0.05	<0.05	nm
Chloroform	mg/kg (ppm)	<0.05	<0.05	nm
2-Butanone (MEK)	mg/kg (ppm)	<0.5	<0.5	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	<0.05	<0.05	nm
1,1,1-Trichloroethane	mg/kg (ppm)	<0.05	<0.05	nm
1,1-Dichloropropene	mg/kg (ppm)	<0.05	<0.05	nm
Carbon Tetrachloride	mg/kg (ppm)	<0.05	<0.05	nm
Benzene	mg/kg (ppm)	<0.03	<0.03	nm
Trichloroethene	mg/kg (ppm)	<0.03	<0.03	nm
1,2-Dichloropropane	mg/kg (ppm)	<0.05	<0.05	nm
Bromodichloromethane	mg/kg (ppm)	<0.05	<0.05	nm
Dibromomethane	mg/kg (ppm)	<0.05	<0.05	nm
4-Methyl-2-pentanone	mg/kg (ppm)	<0.5	<0.5	nm
cis-1,3-Dichloropropene	mg/kg (ppm)	<0.05	<0.05	nm
Toluene	mg/kg (ppm)	<0.05	<0.05	nm
trans-1,3-Dichloropropene	mg/kg (ppm)	<0.05	<0.05	nm
1,1,2-Trichloroethane	mg/kg (ppm)	<0.05	<0.05	nm
2-Hexanone	mg/kg (ppm)	<0.5	<0.5	nm
1,3-Dichloropropane	mg/kg (ppm)	<0.05	<0.05	nm
Tetrachloroethene	mg/kg (ppm)	<0.025	<0.025	nm
Dibromochloromethane	mg/kg (ppm)	<0.05	<0.05	nm
1,2-Dibromoethane (EDB)	mg/kg (ppm)	<0.05	<0.05	nm
Chlorobenzene	mg/kg (ppm)	<0.05	<0.05	nm
Ethylbenzene	mg/kg (ppm)	<0.05	<0.05	nm
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	<0.05	<0.05	nm
m,p-Xylene	mg/kg (ppm)	<0.1	<0.1	nm
o-Xylene	mg/kg (ppm)	<0.05	<0.05	nm
Styrene	mg/kg (ppm)	<0.05	<0.05	nm
Isopropylbenzene	mg/kg (ppm)	<0.05	<0.05	nm
Bromoform	mg/kg (ppm)	<0.05	<0.05	nm
n-Propylbenzene	mg/kg (ppm)	<0.05	<0.05	nm
Bromobenzene	mg/kg (ppm)	<0.05	<0.05	nm
1,3,5-Trimethylbenzene	mg/kg (ppm)	<0.05	<0.05	nm
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	<0.05	<0.05	nm
1,2,3-Trichloropropane	mg/kg (ppm)	<0.05	<0.05	nm
2-Chlorotoluene	mg/kg (ppm)	<0.05	<0.05	nm
4-Chlorotoluene	mg/kg (ppm)	<0.05	<0.05	nm
tert-Butylbenzene	mg/kg (ppm)	<0.05	<0.05	nm
1,2,4-Trimethylbenzene	mg/kg (ppm)	<0.05	<0.05	nm
sec-Butylbenzene	mg/kg (ppm)	<0.05	<0.05	nm
p-Isopropyltoluene	mg/kg (ppm)	<0.05	<0.05	nm
1,3-Dichlorobenzene	mg/kg (ppm)	<0.05	<0.05	nm
1,4-Dichlorobenzene	mg/kg (ppm)	<0.05	<0.05	nm
1,2-Dichlorobenzene	mg/kg (ppm)	<0.05	<0.05	nm
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	<0.05	<0.05	nm
1,2,4-Trichlorobenzene	mg/kg (ppm)	<0.1	<0.1	nm
Hexachlorobutadiene	mg/kg (ppm)	<0.1	<0.1	nm
Naphthalene	mg/kg (ppm)	<0.05	<0.05	nm
1,2,3-Trichlorobenzene	mg/kg (ppm)	<0.1	<0.1	nm

Date of Report: 11/01/07
Date Received: 10/24/07
Project: WA07-15008-PH2, F&BI 710321

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code:710329-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.05	55	24-139
Chloromethane	mg/kg (ppm)	2.5	<0.05	75	30-153
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	84	41-150
Bromomethane	mg/kg (ppm)	2.5	<0.5	122	54-150
Chloroethane	mg/kg (ppm)	2.5	<0.5	101	36-161
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.5	109	46-164
Acetone	mg/kg (ppm)	2.5	<0.5	103	47-157
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	94	22-144
Methylene chloride	mg/kg (ppm)	2.5	<0.5	80	38-149
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	98	53-138
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	103	65-125
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.05	98	26-153
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	100	59-140
Chloroform	mg/kg (ppm)	2.5	<0.05	104	67-126
2-Butanone (MEK)	mg/kg (ppm)	2.5	<0.5	114	40-160
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	106	68-127
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	104	61-134
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.05	94	59-128
Carbon Tetrachloride	mg/kg (ppm)	2.5	<0.05	101	54-138
Benzene	mg/kg (ppm)	2.5	<0.03	98	61-129
Trichloroethene	mg/kg (ppm)	2.5	<0.03	99	61-132
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.05	104	69-129
Bromodichloromethane	mg/kg (ppm)	2.5	<0.05	107	56-138
Dibromomethane	mg/kg (ppm)	2.5	<0.05	106	65-135
4-Methyl-2-pentanone	mg/kg (ppm)	2.5	<0.5	112	62-145
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.05	106	63-134
Toluene	mg/kg (ppm)	2.5	<0.05	102	59-137
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.05	111	67-133
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.05	102	71-130
2-Hexanone	mg/kg (ppm)	2.5	<0.5	113	56-157
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.05	106	71-128
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	98	63-131
Dibromochloromethane	mg/kg (ppm)	2.5	<0.05	109	58-132
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.05	106	71-132
Chlorobenzene	mg/kg (ppm)	2.5	<0.05	99	65-125
Ethylbenzene	mg/kg (ppm)	2.5	<0.05	102	69-130
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.05	105	69-129
m,p-Xylene	mg/kg (ppm)	5	<0.1	103	67-134
o-Xylene	mg/kg (ppm)	2.5	<0.05	103	73-130
Styrene	mg/kg (ppm)	2.5	<0.05	106	68-127
Isopropylbenzene	mg/kg (ppm)	2.5	<0.05	105	50-147
Bromoform	mg/kg (ppm)	2.5	<0.05	97	50-142
n-Propylbenzene	mg/kg (ppm)	2.5	<0.05	103	70-129
Bromobenzene	mg/kg (ppm)	2.5	<0.05	100	69-132
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.05	103	71-129
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.05	99	64-138
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.05	103	66-133
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.05	101	69-125
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.05	100	68-126
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.05	105	70-128
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.05	102	71-130
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.05	103	58-136
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.05	105	70-131
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	99	70-125
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	96	69-121
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	101	68-128
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.05	111	55-151
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.1	103	64-135
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.1	100	55-145
Naphthalene	mg/kg (ppm)	2.5	<0.05	105	53-155
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.1	108	55-152

Date of Report: 11/01/07
Date Received: 10/24/07
Project: WA07-15008-PH2, F&BI 710321

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code:Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	63	29-163
Chloromethane	mg/kg (ppm)	2.5	78	28-147
Vinyl chloride	mg/kg (ppm)	2.5	89	38-143
Bromomethane	mg/kg (ppm)	2.5	124	32-163
Chloroethane	mg/kg (ppm)	2.5	103	10-165
Trichlorofluoromethane	mg/kg (ppm)	2.5	133	22-167
Acetone	mg/kg (ppm)	2.5	109	20-172
1,1-Dichloroethene	mg/kg (ppm)	2.5	103	42-140
Methylene chloride	mg/kg (ppm)	2.5	88	53-137
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	96	70-122
1,1-Dichloroethane	mg/kg (ppm)	2.5	97	77-114
2,2-Dichloropropane	mg/kg (ppm)	2.5	95	65-135
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	93	77-120
Chloroform	mg/kg (ppm)	2.5	95	76-117
2-Butanone (MEK)	mg/kg (ppm)	2.5	112	52-153
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	100	76-116
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	95	79-120
1,1-Dichloropropene	mg/kg (ppm)	2.5	90	76-123
Carbon Tetrachloride	mg/kg (ppm)	2.5	95	75-126
Benzene	mg/kg (ppm)	2.5	93	76-118
Trichloroethene	mg/kg (ppm)	2.5	93	75-121
1,2-Dichloropropane	mg/kg (ppm)	2.5	96	78-123
Bromodichloromethane	mg/kg (ppm)	2.5	100	79-126
Dibromomethane	mg/kg (ppm)	2.5	98	79-121
4-Methyl-2-pentanone	mg/kg (ppm)	2.5	103	52-151
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	98	80-127
Toluene	mg/kg (ppm)	2.5	96	76-122
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	106	80-126
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	96	77-121
2-Hexanone	mg/kg (ppm)	2.5	106	67-126
1,3-Dichloropropane	mg/kg (ppm)	2.5	97	76-122
Tetrachloroethene	mg/kg (ppm)	2.5	92	77-124
Dibromochloromethane	mg/kg (ppm)	2.5	105	73-127
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	98	78-126
Chlorobenzene	mg/kg (ppm)	2.5	95	79-113
Ethylbenzene	mg/kg (ppm)	2.5	97	77-120
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	100	79-125
m,p-Xylene	mg/kg (ppm)	5	99	79-121
o-Xylene	mg/kg (ppm)	2.5	98	80-123
Styrene	mg/kg (ppm)	2.5	102	81-124
Isopropylbenzene	mg/kg (ppm)	2.5	100	79-123
Bromoform	mg/kg (ppm)	2.5	95	65-124
n-Propylbenzene	mg/kg (ppm)	2.5	95	77-123
Bromobenzene	mg/kg (ppm)	2.5	92	78-122
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	96	79-123
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	92	73-121
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	94	69-123
2-Chlorotoluene	mg/kg (ppm)	2.5	92	77-120
4-Chlorotoluene	mg/kg (ppm)	2.5	93	77-121
tert-Butylbenzene	mg/kg (ppm)	2.5	97	77-124
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	94	78-123
sec-Butylbenzene	mg/kg (ppm)	2.5	96	77-122
p-Isopropyltoluene	mg/kg (ppm)	2.5	97	79-126
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	93	78-119
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	90	77-114
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	93	78-120
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	102	66-133
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	96	71-129
Hexachlorobutadiene	mg/kg (ppm)	2.5	97	65-134
Naphthalene	mg/kg (ppm)	2.5	96	51-158
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	99	37-182

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probablility.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

fp – Compounds in the sample matrix interfered with quantitation of the analyte. The reported concentration may be a false positive.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

710321

SAMPLE CHAIN OF CUSTODY ME 10/24/07

USI

Page # 1 of 1

Send Report To John Bhend
Company Adapt Engineering, Inc.
Address 615 8th Avenue South
City, State, ZIP Seattle, WA 98104
Phone # 206-654-7645 Fax # 206-654-7648

SAMPLERS (signature) John Bhend
PROJECT NAME/NO. WA07-15008-Ph2
PO #
REMARKS

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☒ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS							Notes
B-6: 2'	01 A-D	10-24-07	0915	Soil	4		X	X	X									
B-6: 25'	02 A-C	↓	1025	↓	↓		X	X	X									
B-7: 30'	03 A-D	10-23-07	1310	↓	↓				X									
												Samples received at					2 °C	

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	John Bhend	John Bhend	Adapt	10-24-07	1325
Received by:	Nhan Pham	Nhan Pham	FEBI	10/24/07	13:25
Relinquished by:					
Received by:					

FORMS\COC\COC.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
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Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

November 6, 2007

John Bhend, Project Manager
Adapt Engineering
615 8th Avenue South
Seattle, WA 98104

Dear Mr. Bhend:

Included are the results from the testing of material submitted on October 31, 2007 from the WA07-15008-PH2, F&BI 710419 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
ADP1106R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 31, 2007 by Friedman & Bruya, Inc. from the Adapt Engineering WA07-15008-PH2, F&BI 710419 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Adapt Engineering
710419-01	MW-1
710419-02	MW-2
710419-03	MW-3

All quality control requirements were acceptable.

Date of Report: 11/06/07
Date Received: 10/31/07
Project: WA07-15008-PH2, F&BI 710419
Date Extracted: 11/01/07
Date Analyzed: 11/01/07

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 52-124)
MW-1 710419-01	<1	<1	<1	<3	<100	100
MW-2 710419-02	42	10	1	7	320	101
Method Blank	<1	<1	<1	<3	<100	101

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID:	MW-1	Client:	Adapt Engineering
Date Received:	10/31/07	Project:	WA07-15008-PH2, F&BI 710419
Date Extracted:	11/01/07	Lab ID:	710419-01
Date Analyzed:	11/02/07	Data File:	110138.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	78	75	125
1,2-Dichloroethane-d4	77	67	133
Toluene-d8	86	79	129
4-Bromofluorobenzene	121	76	145

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	Tetrachloroethene	<1
Chloromethane	<1	Dibromochloromethane	<1
Vinyl chloride	<0.2	1,2-Dibromoethane (EDB)	<1
Bromomethane	<1	Chlorobenzene	<1
Chloroethane	<1	Ethylbenzene	<1
Trichlorofluoromethane	<1	1,1,1,2-Tetrachloroethane	<1
Acetone	<10	m,p-Xylene	<2
1,1-Dichloroethene	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon Tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<1	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<1
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1
1,3-Dichloropropane	<1		

Note: The reporting limit for vinyl chloride is equal to the MDL.

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID:	MW-3	Client:	Adapt Engineering
Date Received:	10/31/07	Project:	WA07-15008-PH2, F&BI 710419
Date Extracted:	11/01/07	Lab ID:	710419-03
Date Analyzed:	11/02/07	Data File:	110139.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	77	75	125
1,2-Dichloroethane-d4	75	67	133
Toluene-d8	86	79	129
4-Bromofluorobenzene	121	76	145

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	Tetrachloroethene	45
Chloromethane	<1	Dibromochloromethane	<1
Vinyl chloride	<0.2	1,2-Dibromoethane (EDB)	<1
Bromomethane	<1	Chlorobenzene	<1
Chloroethane	<1	Ethylbenzene	<1
Trichlorofluoromethane	<1	1,1,1,2-Tetrachloroethane	<1
Acetone	<10	m,p-Xylene	<2
1,1-Dichloroethene	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	1.3	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon Tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<1	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<1
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1
1,3-Dichloropropane	<1		

Note: The reporting limit for vinyl chloride is equal to the MDL.

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID:	Method Blank	Client:	Adapt Engineering
Date Received:	Not Applicable	Project:	WA07-15008-PH2, F&BI 710419
Date Extracted:	11/01/07	Lab ID:	071700 mb
Date Analyzed:	11/01/07	Data File:	110114.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	79	75	125
1,2-Dichloroethane-d4	77	67	133
Toluene-d8	87	79	129
4-Bromofluorobenzene	122	76	145

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	Tetrachloroethene	<1
Chloromethane	<1	Dibromochloromethane	<1
Vinyl chloride	<0.2	1,2-Dibromoethane (EDB)	<1
Bromomethane	<1	Chlorobenzene	<1
Chloroethane	<1	Ethylbenzene	<1
Trichlorofluoromethane	<1	1,1,1,2-Tetrachloroethane	<1
Acetone	<10	m,p-Xylene	<2
1,1-Dichloroethene	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon Tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<1	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<1
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1
1,3-Dichloropropane	<1		

Note: The reporting limit for vinyl chloride is equal to the MDL.

Date of Report: 11/06/07
Date Received: 10/31/07
Project: WA07-15008-PH2, F&BI 710419

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 710419-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	42	44	5
Toluene	ug/L (ppb)	10	11	10
Ethylbenzene	ug/L (ppb)	1	1	0
Xylenes	ug/L (ppb)	7	7	0
Gasoline	ug/L (ppb)	320	330	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	108	65-118
Toluene	ug/L (ppb)	50	111	72-122
Ethylbenzene	ug/L (ppb)	50	113	73-126
Xylenes	ug/L (ppb)	150	112	74-118
Gasoline	ug/L (ppb)	1,000	97	69-134

Date of Report: 11/06/07
Date Received: 10/31/07
Project: WA07-15008-PH2, F&BI 710419

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code: 710419-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	<1	<1	nm
Chloromethane	ug/L (ppb)	<1	<1	nm
Vinyl chloride	ug/L (ppb)	<0.2	<0.2	nm
Bromomethane	ug/L (ppb)	<1	<1	nm
Chloroethane	ug/L (ppb)	<1	<1	nm
Trichlorofluoromethane	ug/L (ppb)	<1	<1	nm
Acetone	ug/L (ppb)	<10	<10	nm
1,1-Dichloroethene	ug/L (ppb)	<1	<1	nm
Methylene chloride	ug/L (ppb)	<5	<5	nm
trans-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethane	ug/L (ppb)	<1	<1	nm
2,2-Dichloropropane	ug/L (ppb)	<1	<1	nm
cis-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
Chloroform	ug/L (ppb)	1.3	1.3	0
2-Butanone (MEK)	ug/L (ppb)	<10	<10	nm
1,2-Dichloroethane (EDC)	ug/L (ppb)	<1	<1	nm
1,1,1-Trichloroethane	ug/L (ppb)	<1	<1	nm
1,1-Dichloropropene	ug/L (ppb)	<1	<1	nm
Carbon Tetrachloride	ug/L (ppb)	<1	<1	nm
Benzene	ug/L (ppb)	<1	<1	nm
Trichloroethene	ug/L (ppb)	<1	<1	nm
1,2-Dichloropropane	ug/L (ppb)	<1	<1	nm
Bromodichloromethane	ug/L (ppb)	<1	<1	nm
Dibromomethane	ug/L (ppb)	<1	<1	nm
4-Methyl-2-pentanone	ug/L (ppb)	<10	<10	nm
cis-1,3-Dichloropropene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
trans-1,3-Dichloropropene	ug/L (ppb)	<1	<1	nm
1,1,2-Trichloroethane	ug/L (ppb)	<1	<1	nm
2-Hexanone	ug/L (ppb)	<10	<10	nm
1,3-Dichloropropane	ug/L (ppb)	<1	<1	nm
Tetrachloroethene	ug/L (ppb)	45	46	2
Dibromochloromethane	ug/L (ppb)	<1	<1	nm
1,2-Dibromoethane (EDB)	ug/L (ppb)	<1	<1	nm
Chlorobenzene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
1,1,1,2-Tetrachloroethane	ug/L (ppb)	<1	<1	nm
m,p-Xylene	ug/L (ppb)	<2	<2	nm
o-Xylene	ug/L (ppb)	<1	<1	nm
Styrene	ug/L (ppb)	<1	<1	nm
Isopropylbenzene	ug/L (ppb)	<1	<1	nm
Bromoform	ug/L (ppb)	<1	<1	nm
n-Propylbenzene	ug/L (ppb)	<1	<1	nm
Bromobenzene	ug/L (ppb)	<1	<1	nm
1,3,5-Trimethylbenzene	ug/L (ppb)	<1	<1	nm
1,1,2,2-Tetrachloroethane	ug/L (ppb)	<1	<1	nm
1,2,3-Trichloropropane	ug/L (ppb)	<1	<1	nm
2-Chlorotoluene	ug/L (ppb)	<1	<1	nm
4-Chlorotoluene	ug/L (ppb)	<1	<1	nm
tert-Butylbenzene	ug/L (ppb)	<1	<1	nm
1,2,4-Trimethylbenzene	ug/L (ppb)	<1	<1	nm
sec-Butylbenzene	ug/L (ppb)	<1	<1	nm
p-Isopropyltoluene	ug/L (ppb)	<1	<1	nm
1,3-Dichlorobenzene	ug/L (ppb)	<1	<1	nm
1,4-Dichlorobenzene	ug/L (ppb)	<1	<1	nm
1,2-Dichlorobenzene	ug/L (ppb)	<1	<1	nm
1,2-Dibromo-3-chloropropane	ug/L (ppb)	<1	<1	nm
1,2,4-Trichlorobenzene	ug/L (ppb)	<1	<1	nm
Hexachlorobutadiene	ug/L (ppb)	<1	<1	nm
Naphthalene	ug/L (ppb)	<1	<1	nm
1,2,3-Trichlorobenzene	ug/L (ppb)	<1	<1	nm

Date of Report: 11/06/07
Date Received: 10/31/07
Project: WA07-15008-PH2, F&BI 710419

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code: 710390-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<1	99	50-150
Chloromethane	ug/L (ppb)	50	<1	120	21-170
Vinyl chloride	ug/L (ppb)	50	<0.2	121	30-160
Bromomethane	ug/L (ppb)	50	<1	149	24-165
Chloroethane	ug/L (ppb)	50	<1	117	19-172
Trichlorofluoromethane	ug/L (ppb)	50	<1	133	38-149
Acetone	ug/L (ppb)	50	<10	117	19-169
1,1-Dichloroethene	ug/L (ppb)	50	<1	139	35-146
Methylene chloride	ug/L (ppb)	50	<5	124	68-124
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	122	69-124
1,1-Dichloroethane	ug/L (ppb)	50	<1	114	71-124
2,2-Dichloropropane	ug/L (ppb)	50	<1	117	25-155
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	120	77-124
Chloroform	ug/L (ppb)	50	<1	114	75-123
2-Butanone (MEK)	ug/L (ppb)	50	<10	103	50-162
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	109	71-128
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	120	67-131
1,1-Dichloropropene	ug/L (ppb)	50	<1	109	67-124
Carbon Tetrachloride	ug/L (ppb)	50	<1	124	60-135
Benzene	ug/L (ppb)	50	<1	107	73-119
Trichloroethene	ug/L (ppb)	50	<1	103	73-118
1,2-Dichloropropane	ug/L (ppb)	50	<1	106	77-123
Bromodichloromethane	ug/L (ppb)	50	<1	115	71-128
Dibromomethane	ug/L (ppb)	50	<1	113	61-138
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	120	70-133
cis-1,3-Dichloropropene	ug/L (ppb)	50	<1	93	56-144
Toluene	ug/L (ppb)	50	<1	100	69-130
trans-1,3-Dichloropropene	ug/L (ppb)	50	<1	92	64-139
1,1,2-Trichloroethane	ug/L (ppb)	50	<1	99	65-141
2-Hexanone	ug/L (ppb)	50	<10	106	57-155
1,3-Dichloropropane	ug/L (ppb)	50	<1	100	81-121
Tetrachloroethene	ug/L (ppb)	50	<1	97	74-126
Dibromochloromethane	ug/L (ppb)	50	<1	96	70-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	105	80-124
Chlorobenzene	ug/L (ppb)	50	<1	100	75-116
Ethylbenzene	ug/L (ppb)	50	<1	105	77-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<1	117	78-124
m,p-Xylene	ug/L (ppb)	100	<2	109	75-126
o-Xylene	ug/L (ppb)	50	<1	107	78-126
Styrene	ug/L (ppb)	50	<1	108	76-124
Isopropylbenzene	ug/L (ppb)	50	<1	123	80-125
Bromoform	ug/L (ppb)	50	<1	111	56-138
n-Propylbenzene	ug/L (ppb)	50	<1	104	79-126
Bromobenzene	ug/L (ppb)	50	<1	98	78-119
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<1	110	77-124
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<1	101	70-135
1,2,3-Trichloropropane	ug/L (ppb)	50	<1	96	69-133
2-Chlorotoluene	ug/L (ppb)	50	<1	100	74-124
4-Chlorotoluene	ug/L (ppb)	50	<1	102	74-124
tert-Butylbenzene	ug/L (ppb)	50	<1	109	78-127
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<1	111	78-124
sec-Butylbenzene	ug/L (ppb)	50	<1	110	77-126
p-Isopropyltoluene	ug/L (ppb)	50	<1	104	76-128
1,3-Dichlorobenzene	ug/L (ppb)	50	<1	103	74-121
1,4-Dichlorobenzene	ug/L (ppb)	50	<1	101	73-116
1,2-Dichlorobenzene	ug/L (ppb)	50	<1	109	74-123
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<1	99	56-148
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<1	102	65-132
Hexachlorobutadiene	ug/L (ppb)	50	<1	93	54-139
Naphthalene	ug/L (ppb)	50	<1	98	41-166
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<1	100	59-152

Date of Report: 11/06/07
Date Received: 10/31/07
Project: WA07-15008-PH2, F&BI 710419

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	96	22-164
Chloromethane	ug/L (ppb)	50	93	43-147
Vinyl chloride	ug/L (ppb)	50	91	48-142
Bromomethane	ug/L (ppb)	50	104	37-160
Chloroethane	ug/L (ppb)	50	87	28-161
Trichlorofluoromethane	ug/L (ppb)	50	96	52-143
Acetone	ug/L (ppb)	50	110	21-187
1,1-Dichloroethene	ug/L (ppb)	50	97	61-127
Methylene chloride	ug/L (ppb)	50	96	59-131
trans-1,2-Dichloroethene	ug/L (ppb)	50	101	75-122
1,1-Dichloroethane	ug/L (ppb)	50	99	79-114
2,2-Dichloropropane	ug/L (ppb)	50	100	68-137
cis-1,2-Dichloroethene	ug/L (ppb)	50	106	78-122
Chloroform	ug/L (ppb)	50	100	75-116
2-Butanone (MEK)	ug/L (ppb)	50	108	50-165
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	77-118
1,1,1-Trichloroethane	ug/L (ppb)	50	99	72-129
1,1-Dichloropropene	ug/L (ppb)	50	104	80-124
Carbon Tetrachloride	ug/L (ppb)	50	101	69-132
Benzene	ug/L (ppb)	50	99	80-116
Trichloroethene	ug/L (ppb)	50	98	78-115
1,2-Dichloropropane	ug/L (ppb)	50	102	83-118
Bromodichloromethane	ug/L (ppb)	50	105	81-123
Dibromomethane	ug/L (ppb)	50	104	80-119
4-Methyl-2-pentanone	ug/L (ppb)	50	112	34-177
cis-1,3-Dichloropropene	ug/L (ppb)	50	93	85-124
Toluene	ug/L (ppb)	50	102	77-121
trans-1,3-Dichloropropene	ug/L (ppb)	50	96	81-125
1,1,2-Trichloroethane	ug/L (ppb)	50	102	76-120
2-Hexanone	ug/L (ppb)	50	108	31-187
1,3-Dichloropropane	ug/L (ppb)	50	103	76-121
Tetrachloroethene	ug/L (ppb)	50	100	81-117
Dibromochloromethane	ug/L (ppb)	50	94	78-125
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	105	71-129
Chlorobenzene	ug/L (ppb)	50	95	79-110
Ethylbenzene	ug/L (ppb)	50	100	76-118
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	105	73-125
m,p-Xylene	ug/L (ppb)	100	104	65-128
o-Xylene	ug/L (ppb)	50	97	53-152
Styrene	ug/L (ppb)	50	98	83-121
Isopropylbenzene	ug/L (ppb)	50	108	75-130
Bromoform	ug/L (ppb)	50	95	68-132
n-Propylbenzene	ug/L (ppb)	50	108	83-117
Bromobenzene	ug/L (ppb)	50	102	74-120
1,3,5-Trimethylbenzene	ug/L (ppb)	50	109	81-120
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	100	64-126
1,2,3-Trichloropropane	ug/L (ppb)	50	98	61-128
2-Chlorotoluene	ug/L (ppb)	50	102	82-120
4-Chlorotoluene	ug/L (ppb)	50	104	82-120
tert-Butylbenzene	ug/L (ppb)	50	109	81-125
1,2,4-Trimethylbenzene	ug/L (ppb)	50	109	78-125
sec-Butylbenzene	ug/L (ppb)	50	109	76-124
p-Isopropyltoluene	ug/L (ppb)	50	103	77-130
1,3-Dichlorobenzene	ug/L (ppb)	50	101	79-114
1,4-Dichlorobenzene	ug/L (ppb)	50	98	77-109
1,2-Dichlorobenzene	ug/L (ppb)	50	104	77-113
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	95	43-156
1,2,4-Trichlorobenzene	ug/L (ppb)	50	101	71-125
Hexachlorobutadiene	ug/L (ppb)	50	93	68-125
Naphthalene	ug/L (ppb)	50	97	41-151
1,2,3-Trichlorobenzene	ug/L (ppb)	50	102	51-159

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probablility.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

fp – Compounds in the sample matrix interfered with quantitation of the analyte. The reported concentration may be a false positive.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

710419

SAMPLE CHAIN OF CUSTODY

ME 10-31-07

V3

Page # 1 of 1

Send Report To: John Bhend
Company: Adapt Engineering, Inc.
Address: 615 8th Avenue South
City, State, ZIP: Seattle, WA 98104
Phone #: 206-654-7045 Fax #: 206-654-7048

SAMPLERS (signature): John Bhend
PROJECT NAME/NO.: WA07-15008-PH2
PO #:
REMARKS:

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☒ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS							Notes
						ANALYSES REQUESTED												
MW-1	01A-D	10-31-07	1200	GW	4		X	X	X									
MW-2	02A-D	↓	1250	↓	↓		X	X										
MW-3	03A-D	↓	1230	↓	↓				X									
																		Samples received at 5 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: John Bhend	John Bhend	Adapt	10-31-07	1530
Received by: Dave	Dave	FBI	11	11
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

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