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Consultants in Geotechnical Engineering, Geology and Environmental Earth Sciences

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SEP 07 2012

September 6, 2012 Project No. T-6552

HALCO PROPERTIES, LLC

Mr. Brett Cowman c/o Mr. Livingston Wernecke Betts, Patterson & Mines, P.S. 701 Pike Street, Suite 1400 Seattle, Washington 98101-3927

Subject:

Technical Memo - Interim Action Project Progress

5221 Ballard Avenue NW Seattle, Washington VCP NW 2496

References:

- 1. Phase II Environmental Site Assessment, prepared by Terra Associates, Inc., dated July 29, 2011
- 2. Technical Memo, Fall Quarter Sampling, prepared by Terra Associates, Inc., dated October 12, 2011
- 3. Technical Memo, prepared by Terra Associates, Inc., dated December 1, 2011
- 4. Technical Memo, prepared by Terra Associates, Inc., dated May 3, 2012

Dear Mr. Cowman:

This memo updates the progress at the 5221 Ballard Avenue NW project. The attached memo presents the results of analytical testing subsequent to the memo dated May 3, 2012 and our current conclusions in more detail.

We trust the information presented is sufficient for your current needs. If you have any questions or require additional information, please call.

Respectfully submitted,

TERRA ASSOCIATES, INC.

Charles R. Lie, L.H.G. Project Manager

cc:

Ms. Heather Vick, NWRO WDOE

CHAPLES R. LIE

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Technical Memo – Interim Action Project Progress Summer 2012 5221 Ballard Avenue NW Seattle, Washington VCP NW 2496

1.0 EXECUTIVE SUMMARY

This memo summarizes the current status of the interim action at the parcel at 5221 Ballard Avenue NW in Seattle, Washington. We previously prepared memos dated December 1, 2012 and May 3, 2012. This memo also addresses concerns raised in a February 12, 2012 letter from Ecology. As discussed in our prior memos, construction of a multi-story building across the street from the site has dewatered the site. The bottom of the monitoring wells constructed for this project are all now well above the static water level. The initial remedial plan to use enhanced bio remediation using a slow release oxygen compound in the groundwater has been replaced with a vapor extraction system that is both physically removing the residual paint thinner and has increased air flow to enhance natural bio degradation of the hydrocarbons.

The current status summarized in more detail in the following sections of this memo.

2.0 SCOPE OF WORK

Our scope of work for this supplemental report consisted of the following:

- Measuring groundwater in all of the accessible monitoring wells on this site and the adjacent site along Shilshole Avenue NW.
- Subcontracting analytical testing of vapor samples.
- Appropriate analysis of the data.
- Monitoring the VES system.
- Preparation of this memo.

3.0 SITE CONDITIONS

3.1 Surface

The site is located at 5221 Ballard Avenue NW in Seattle, Washington. The site location is shown on Figures 1 and 2. The site layout and exploration locations are shown on Figure 3.

Adjacent New Construction Project

The construction project at 5214 Ballard Avenue NW involves the construction of a 4-story mixed-use building with 3 levels of underground parking. With a surface elevation of about Elev. 36, this places the lower parking level at about Elev. 6. We have reviewed geotechnical information for the site and have incorporated the additional subsurface information into a generalized Geologic Cross Section on Figure 4. The boring logs and site plan from the geotechnical report are attached in Appendix A.

On-site UST Distribution System

Prior to proceeding with the VES pilot test, the existing distribution system was evaluated to reduce impacts such as short circuiting through pipes or pipe bedding. Each of the USTs had a turbine pump. The USTs were vented to the west elevation of the building on-site. The distribution pipes extended from the turbine pump vaults at each UST towards the south. The distribution pipes penetrated the northern basement wall of the building at 5242 Shilshole Avenue NW and extend above grade to former paint formulation stations. No underground distribution system is believed to exist on the property at 5242 Shilshole Avenue NW.

Since the USTs were not used for the storage of vehicle fuel, there were no pump islands associated with the USTs.

3.2 Groundwater

Table 1 summarizes the current and previous groundwater measurements. Historic groundwater contours that predate the dewatering are shown on Figure 3. The current projected static water levels are shown on Figure 4. The current groundwater gradient is currently towards the north-east, inconsistent with the previous measurements. The gradient has reversed due to active dewatering at a new construction project northeast of the site as discussed in Section 3.1. As can be seen in the summary below, the static water levels in the wells on and adjacent to the site are all below the bottom of the existing monitoring well network.

Table 1
Groundwater Measurements

Monitoring	Surface	MP	5/6	/11	5/10/2	2011	6/29/	2011	9/29) /11
Well	Elev.	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.
MW-101	36.77	36.37	10.3	26.07	10.45	25.92	10.78	25.59	11.63	24.74
MW-102	36.35	35.93	10.25	25.68	9.81	26.12	10.08	25.85	11	24.93
MW-103	36.13	35.79	10.25	25.54	9.38	26.41	9.74	26.05	10.86	24.93
MW-104	28.23	27.98					2.76	25.22	3.55	24.43

Table 1 (continued)
Groundwater Measurements

Monitoring	Surface	MP	10-1	7-11	11-18	3-11	11-2	9-11	5-2	2-12
Well	Elev.	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.
MW-101	36.77	36.37	11.50	24.87	15.68	20.69	17.19	19.18	>20	<16.37
MW-102	36.35	35.93	10.86	25.07	15.78	20.15	17.32	18.61	>20	<15.93
MW-103	36.13	35.79	10.54	25.25	16.83	18.96	18.54	17.25	>20	<15.79
MW-104	28.23	27.98			6.83	21.15			>15	<12.98
MW-8	27.97	27.51			5.22	22.29			>8	<18.60
MW-9	30.24	29.99			7.39	22.60			>8	<19.51

Table 1 (continued)
Groundwater Measurements

Monitoring	Surface	MP	8-22-12						
Well	Elev.	Elev.	Depth	Elev.					
MW-101	36.77	36.37	NM	N/A					
MW-102	36.35	35.93	NM	N/A					
MW-103	36.13	35.79	NM	N/A					
MW-104	28.23	27.98	>15	<12.98					
MW-8	27.97	27.51	>8	<18.60					
MW-9	30.24	29.99	>8	<19.51					

Notes: MP is the north side of the top of the PVC casing within the surface monument.

Ground surface elevations are from a survey by Jim Hart and Associates.

NM indicates the well was not measured due to the use of the well in the VES system on-site.

4.0 VACUUM EXTRACTION SYSTEM

The production VES system started operation on May 7, 2012. The production system consists of a trench that provides an individual pipe to each of the three monitoring wells on-site. The individual pipes are routed to allow the system to operate with any one well, two wells, or all three wells in vacuum. Each pipe has a sample port to allow measurement of induced vacuum and to allow sampling of the active vacuum flow. Based on the analytical testing during the pilot test and subsequent production samples, no permit from the Clean Air Agency is required. This is based on Section 603, Notice of Construction (C) Exemptions (94). The only Toxic Air Contaminant is m,p xylene. With the levels of xylene measured as being present, an assumed maximum air flow of 100 CFM and one year of operation, less than 20 pounds of xylene would be discharged. This is well below the threshold of 1,000 pounds per year. The discharge of generic gasoline range hydrocarbons is not regulated.

The system has been monitored since initial construction. The air flow has been about 40 cfm. The vacuum is about 44 inches of water. The system operated until June 18, 2012 on MW-2. The system was then changed to pull vacuum from all three wells. The system operated 24 hours each day until June 28, 2012 when it was changed to operate 12 hours a day to reduce conflicts with nearby apartments. A graphical summary of the estimated mass removal due to the VES is shown on Figure 5. This mass removal does not include the amount of hydrocarbons that have been degraded through enhanced bio degradation with the enhanced air flow from the VES operations.

The results of the vapor sampling are attached in Appendix B. As can be seen, no benzene is present above the practical quantitation limit in any of the samples.

5.0 CONFIRMATION SAMPLING

To evaluate the performance of the VES operation, Terra Associates proposes that confirmation sampling consist of two elements. The first element is confirmation of the soil conditions through the use of Direct Push Technology sampling. The existing soil data is summarized on the generalized geologic section, Figure 4. The schematic locations of the proposed sample points are shown on Figure 6. The DPT explorations would be sampled at the depths where prior testing had found contamination, 10 feet and at 15 feet. If field screening suggests that contamination extends deeper than 15 feet, the DPTs will be driven to a depth of 20 feet or refusal whichever occurs first. The sampling will include a DPT southeast of the UST cluster as suggested by Ecology in their review letter last spring.

The samples will be analyzed for total petroleum hydrocarbons in the gasoline through oil range and BETX. In addition, at least two samples with the highest TPH values will be analyzed using the EPH/VPH test methods to allow an evaluation of a site specific Method B TPH cleanup value. The initial values based on prior sampling was 2,100 ppm.

We propose using the Method B benzene soil cleanup value of 18 ppm for direct contact of the benzene. The Method A cleanup value of 0.03 ppm is based on the protection of drinking water. The prior groundwater sampling on-site had a maximum value of benzene of 1.5 parts per billion benzene. This value was within the MCL for benzene of 5 ppb in the drinking water regulations. Thus, prior to the change in the groundwater level and the current remedial measures, the soils were not creating elevated levels of benzene relative to the Method A groundwater value for benzene.

The only anticipated beneficial use of the groundwater beneath the site is recharge to the adjacent freshwater body of Salmon Bay. The surface water Method B cleanup value for benzene is 23 parts per billion. While no additional groundwater sampling is possible due to the permanent decrease in the groundwater beneath the site, the prior samples of groundwater met the Method B cleanup value for benzene. No further groundwater sampling for benzene is planned at this time. Finally, the vapor samples taken from the VES system have all been non-detect for benzene.

Table 2
Proposed Remediation Levels
Soil and Groundwater

Media	Proposed Remediation	Maximum Documented
·	Level	Level from Prior Study
Soil-TPH G	2,000 ppm	3,900 ppm
Soil Benzene	18 ppm	<0.058 ppm
Groundwater TPH G	800 ppb	940 ppb
Groundwater-TPH D	500 ppb	<700
Groundwater Benzene	23 ppb	2.8 ppb

Notes: TPH G to be determined using EPH VPH and MTCATPH methodology.

Groundwater levels of TPH D and G in MW-103 appear to be drilling relicts and would only present in the initial samples from the wells prior to site dewatering.

TPH D and G groundwater are from WAC 173-340-730 (3) (iii) (C).

The second element is the levels of benzene and hydrocarbons in indoor air in the basement at 5221 Ballard Avenue NW. The prior samples had indicated that the levels of hydrocarbons and benzene were above the cleanup values. With the decrease in the static water elevation and the increased flow of air due to the operation of the VES system, we anticipate significant reductions. Performance sampling will be done following a week with the VES system turned off to allow the sub slab vapor conditions to stabilize. Oxygen readings done during the month of august showed atmospheric levels of oxygen in the sub slab vapor points. Confirmation sampling will be done using the same techniques used for the initial sampling. Follow up indoor air sampling may be done if the sub slab samples continue to be elevated to the current screening levels for benzene and hydrocarbons presented in Ecology Publication 09-09-047.

6.0 DISCUSSION

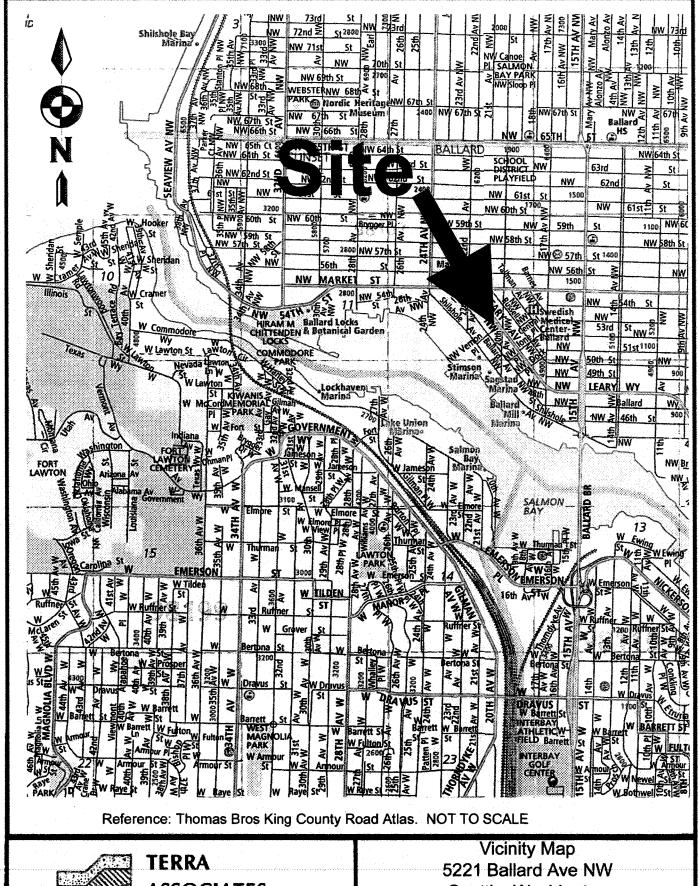
We are in the process of completing a Remedial Investigation/Feasibility Study to document the project and evaluate the cleanup procedures that have been incorporated into the interim action. In the event the confirmation sampling discussed above shows that the site is still not in compliance with the final cleanup levels, it is our opinion that the VES system may continue to operate to further reduce the levels of hydrocarbons through both vacuum extraction and enhanced biodegradation. The timing of the sampling discussed in this memo should be at least six months following the startup of the vacuum system. The system started on May 2, 2012. Thus, we recommend considering resampling the site during the first part of November 2012.

7.0 LIMITATIONS

This memo is the copyrighted property of Terra Associates, Inc. and was prepared in accordance with generally accepted local geo-environmental engineering practices and within the limitations of time and budget. Analytical testing of samples was based on our understanding of past land uses documented in reports by others and the tax records. In the event additional information regarding site history or current site uses is found, the information should be brought to our attention, as it may affect our conclusions.

This memo is intended for specific application to the 5221 Ballard Avenue NW project, and is for the exclusive use of Halco Properties, LLC and their authorized representatives. No other warranty, expressed or implied, is made.

The analyses and recommendations presented in this memo are based on information prepared by others together with data obtained from explorations advanced on the site, and selected analyses of environmental samples for this study. The conclusions reached in this report are our opinions based on the previous and current explorations and analytical test data summarized and discussed in this report. Subsurface conditions may vary and seasonal variations in groundwater may occur.





ASSOCIATES

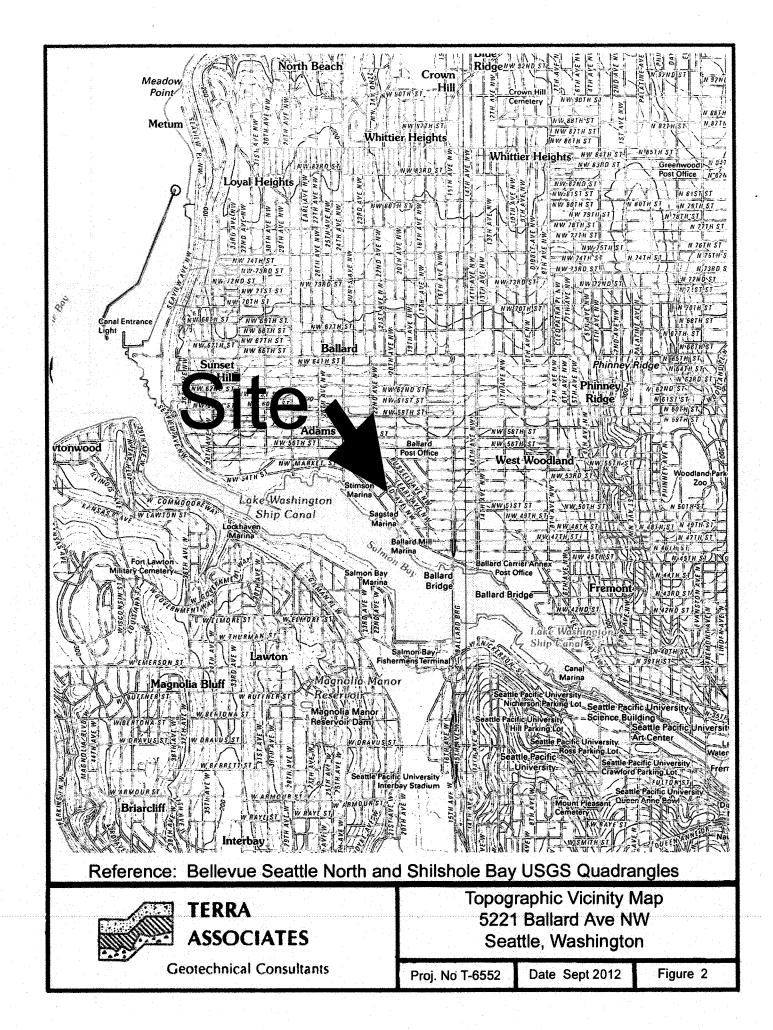
Geotechnical Consultants

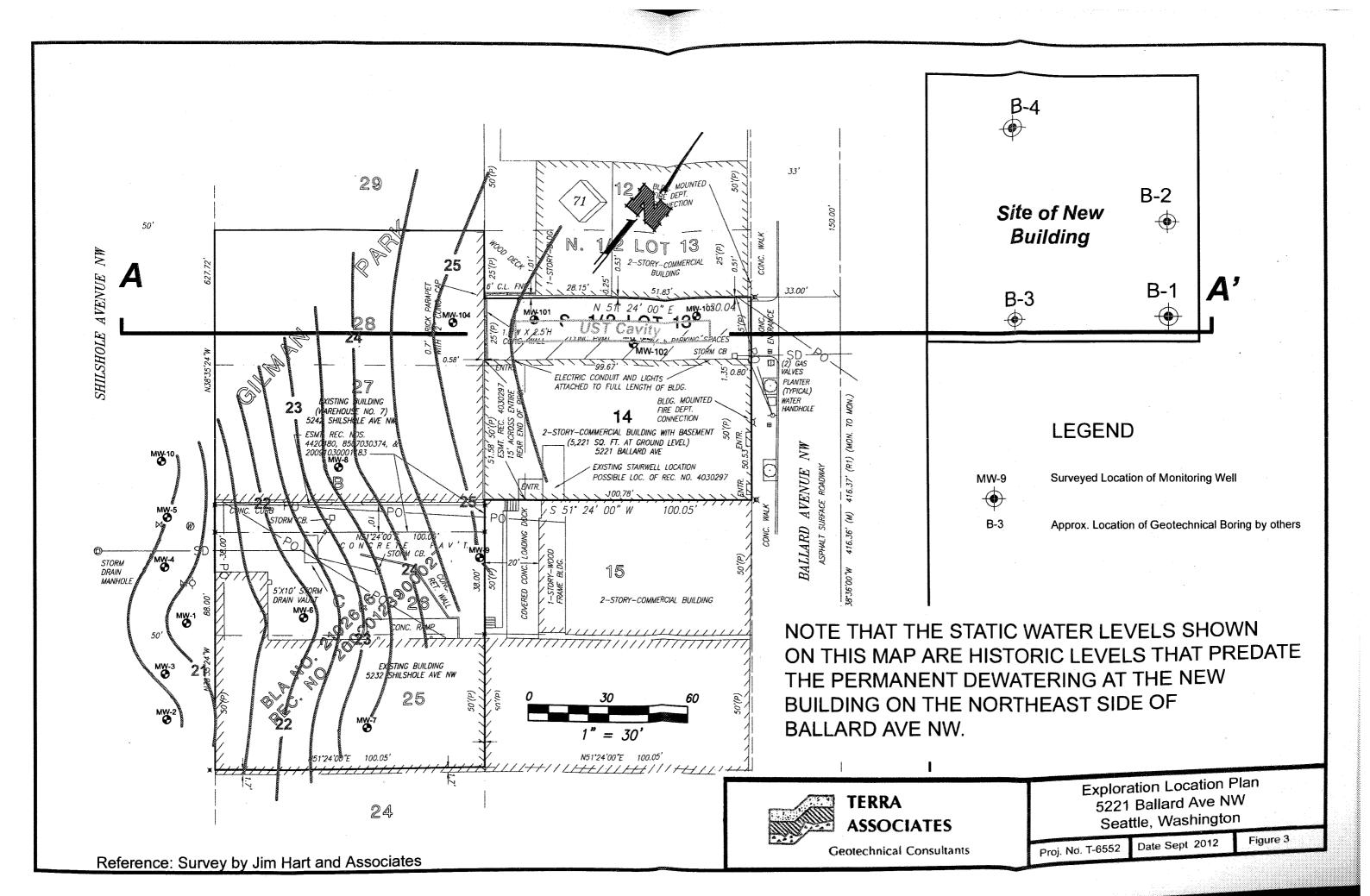
Seattle, Washington

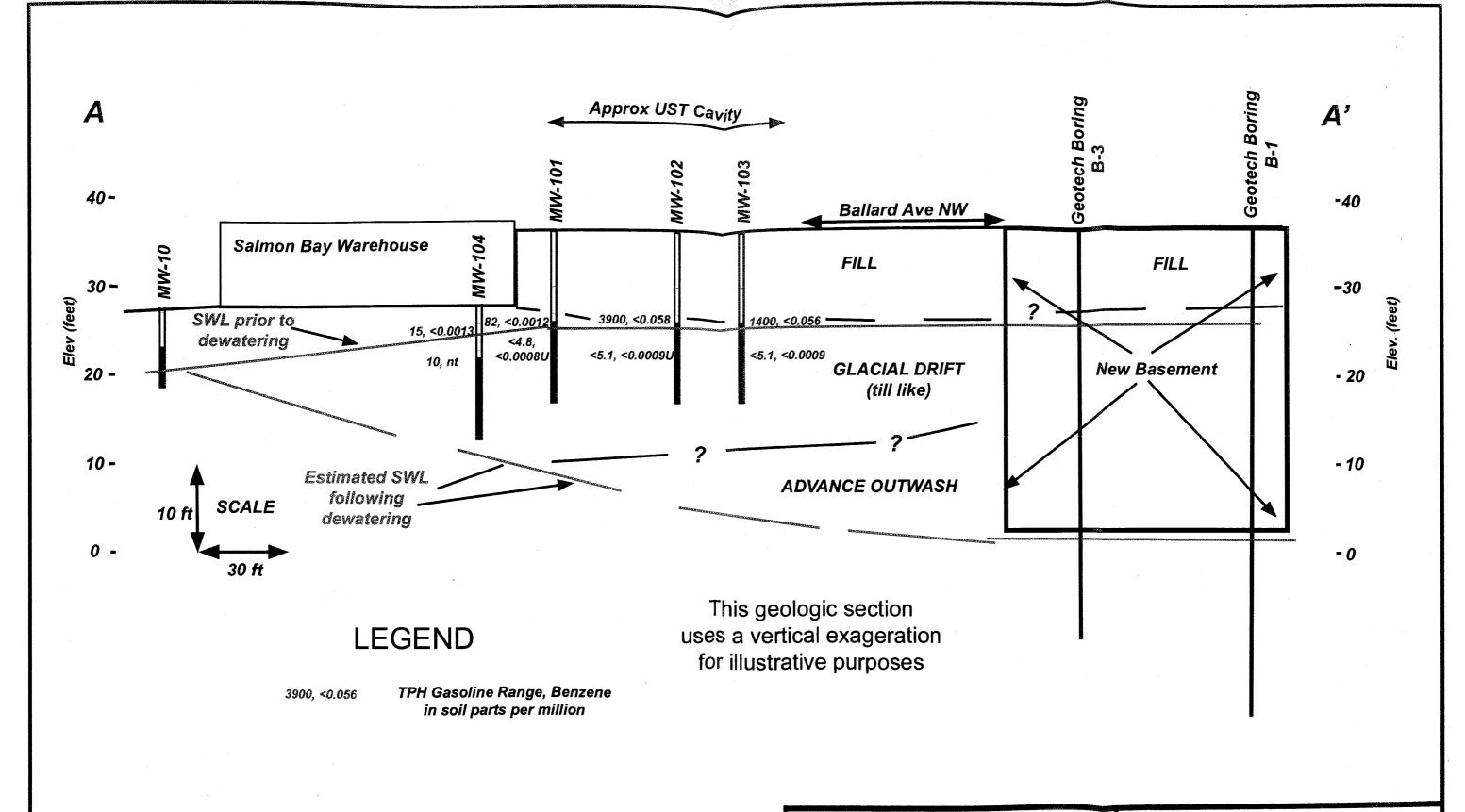
Proj. No T-6552

Date Sept 2012

Figure 1









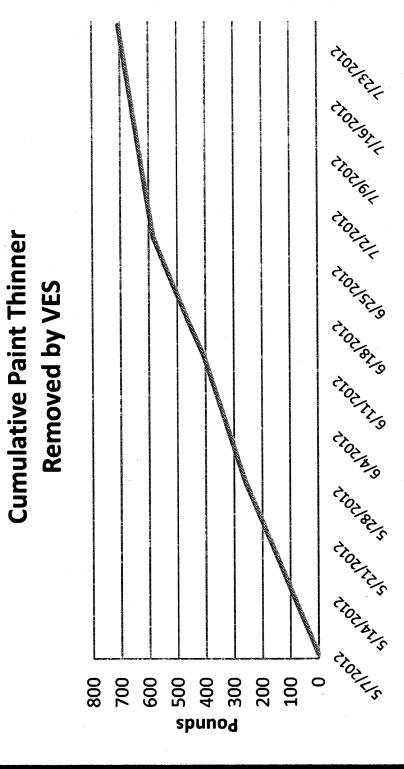
Schematic Geologic Section 5221 Ballard Ave NW Seattle, Washington

5

Proj. No. T-6552

Date Sept 2012

Figure 4





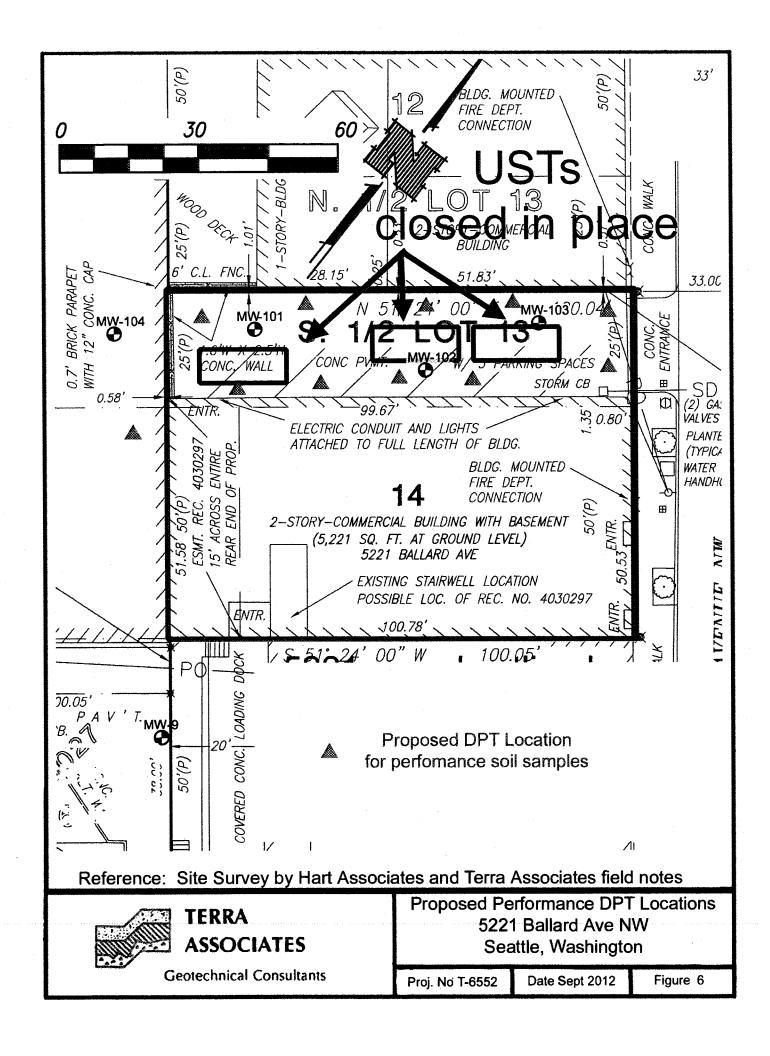
Geotechnical Consultants

VES Mass Removal Estimate 5221 Ballard Ave NW Seattle, Washington

Proj. No T-6552

Date Sept 2012

Figure 5



APPENDIX A

BORING LOGS

Geotechnical Report Ballard Mixed Use Facility 5214 Ballard Avenue NW Seattle, Washington

Project 1466-01 July 17, 2007

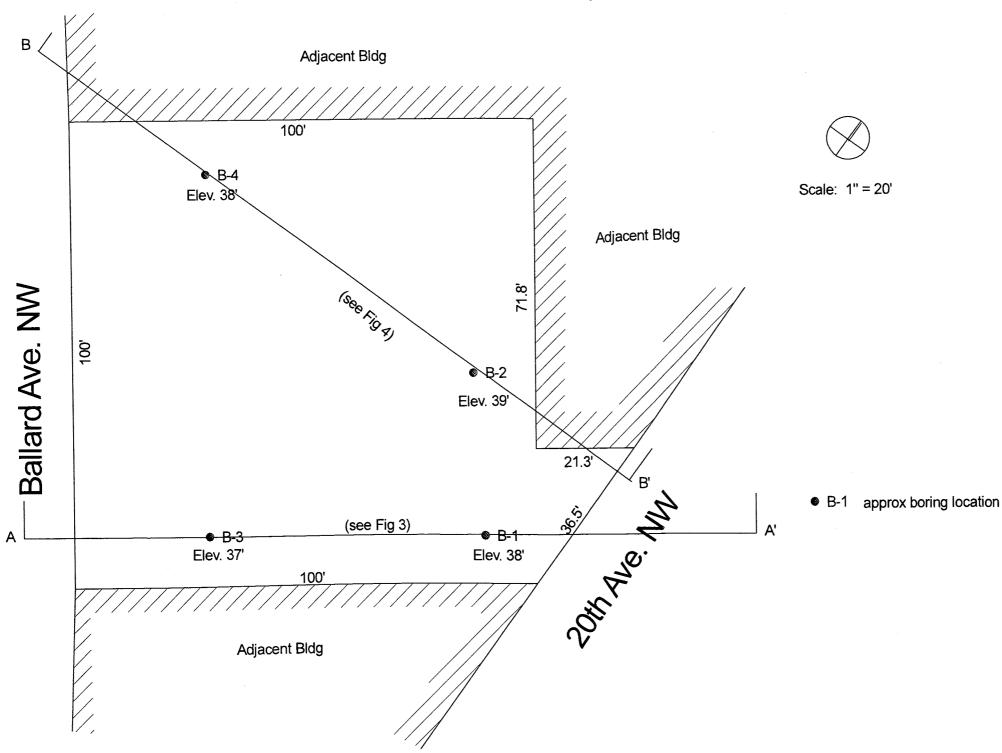
Prepared for:
Ballard LLC
Jim Riggle
5301 Ballard Avenue NW
Seattle, WA 98107

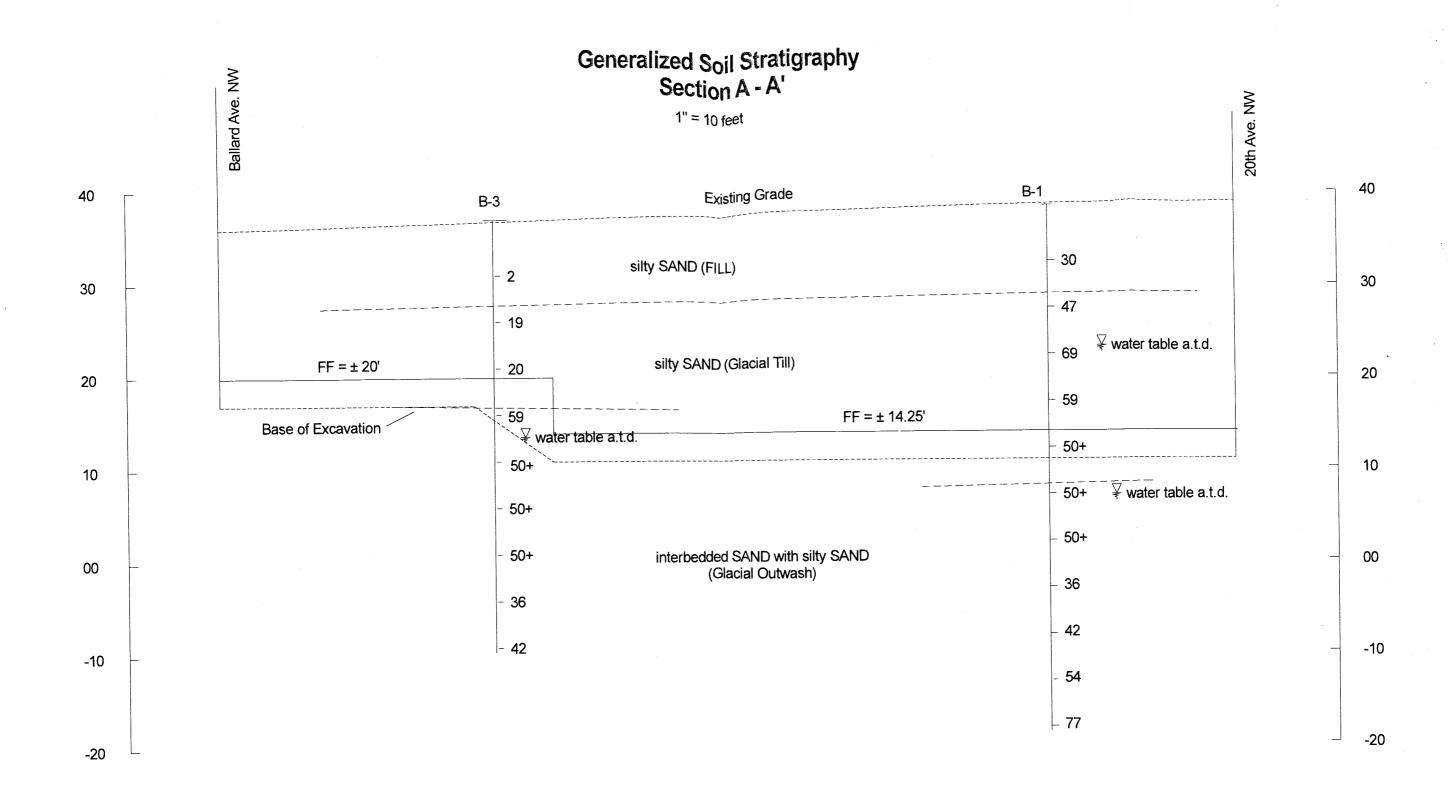
Prepared by:
The Galli Group
5034 18th Avenue NE
Seattle, Washington 98105
206-525-5097

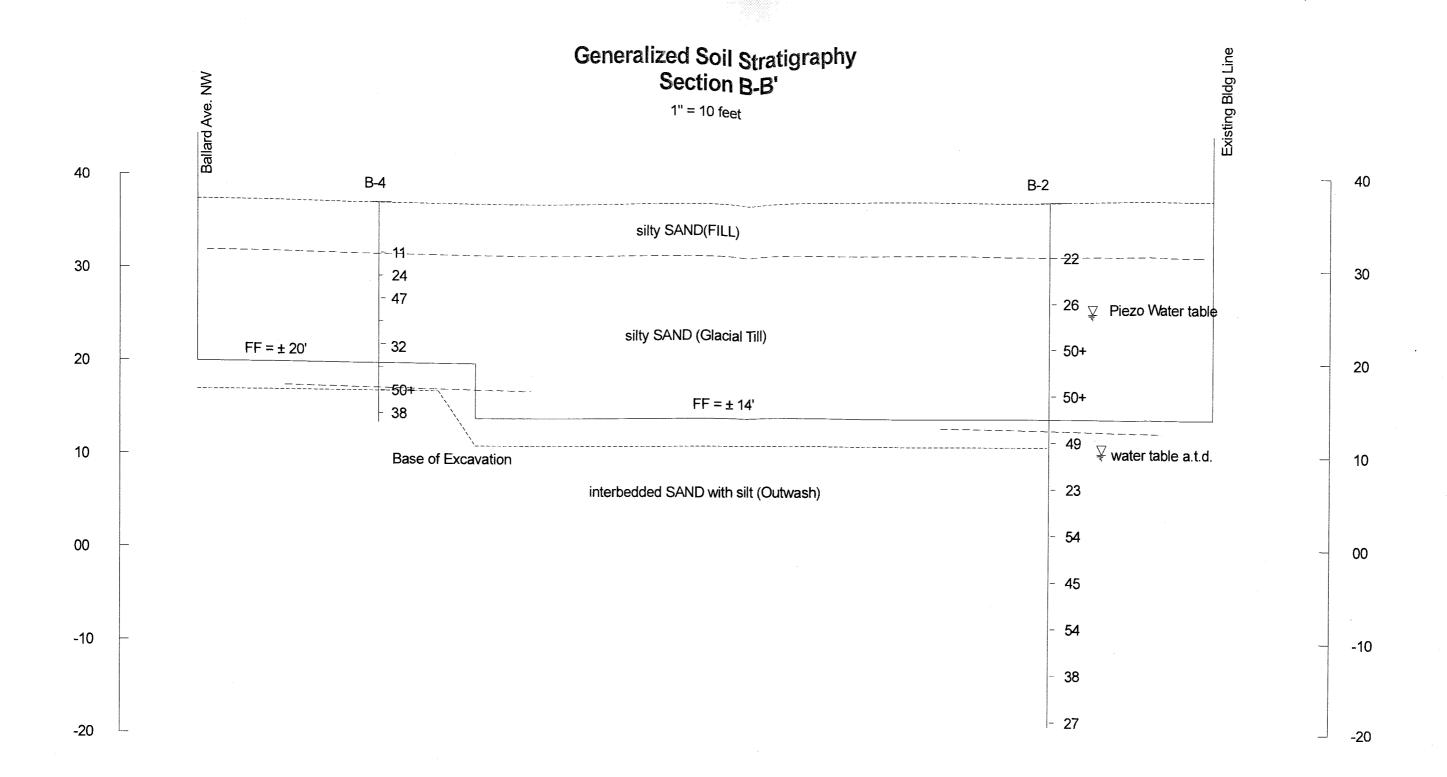
Appendix

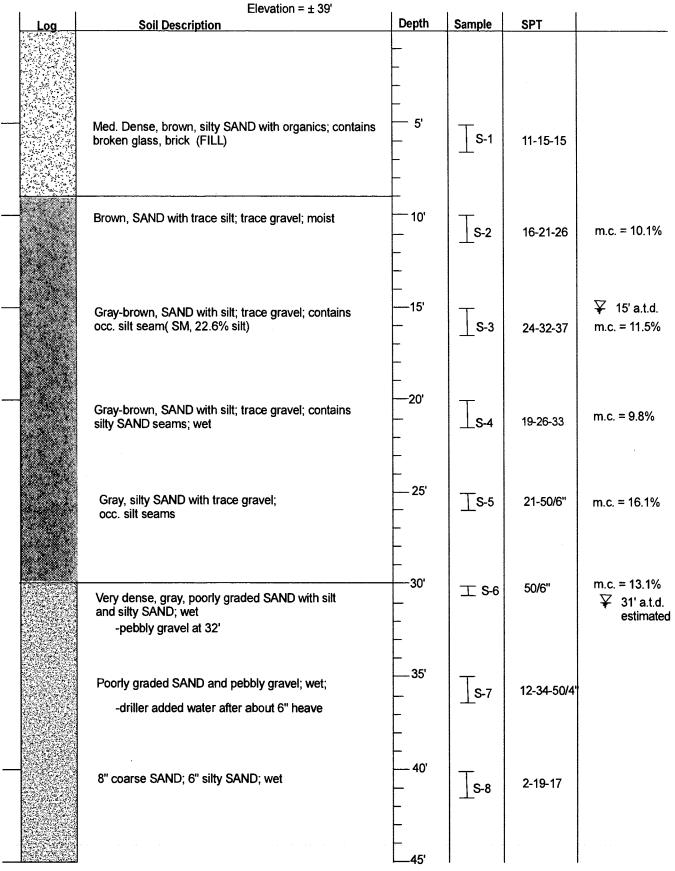
Logs of Exploratory Borings Laboratory Testing

Site Sketch



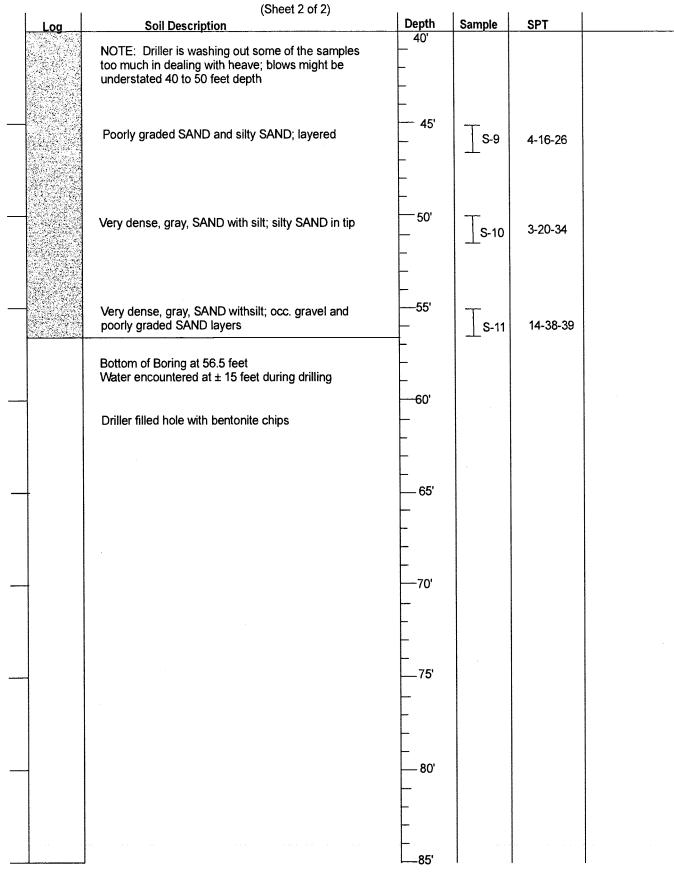






The Galli Group Geotechnical Consulting 5034 - 18th Avenue NE Seattle, WA 98105

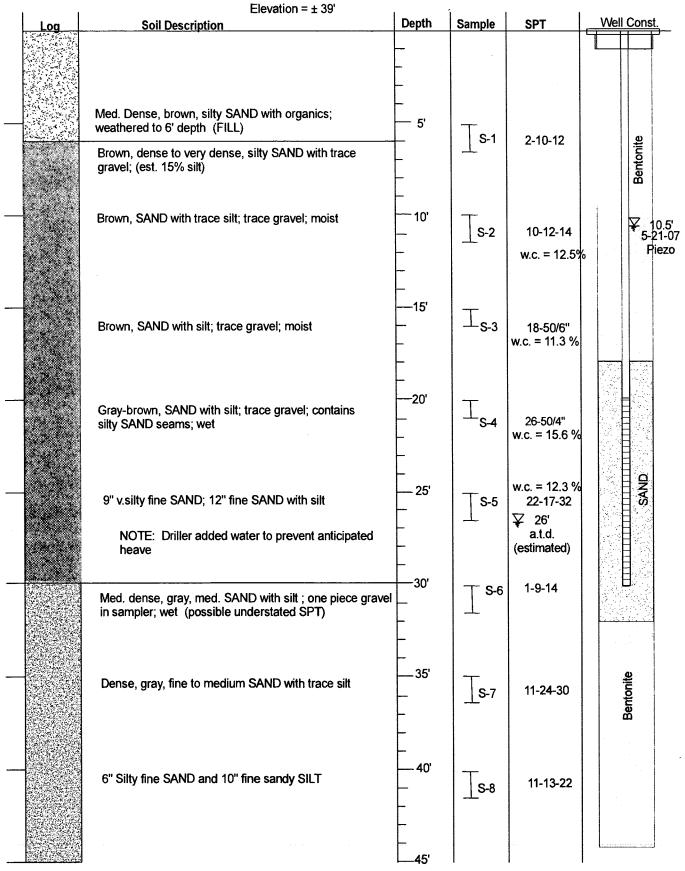
5214 Ballard Ave. NW Seattle, Washington



The Galli Group Geotechnical Consulting 5034 - 18th Avenue NE Seattle, WA 98105

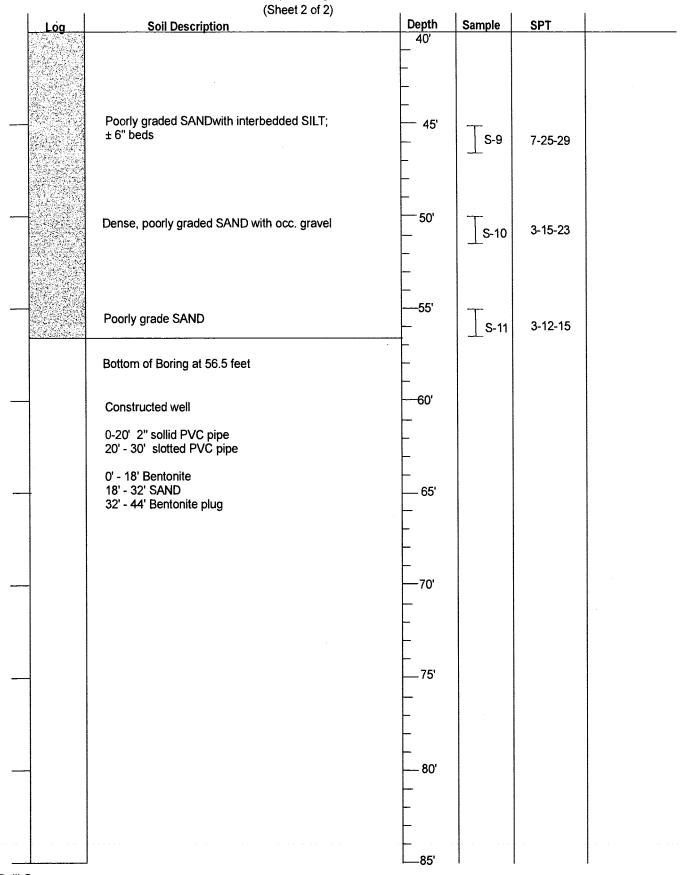
5214 Ballard Ave. NW Seattle, Washington

Boring Log B-2



The Galli Group Geotechnical Consulting 5034 - 18th Avenue NE Seattle, WA 98105

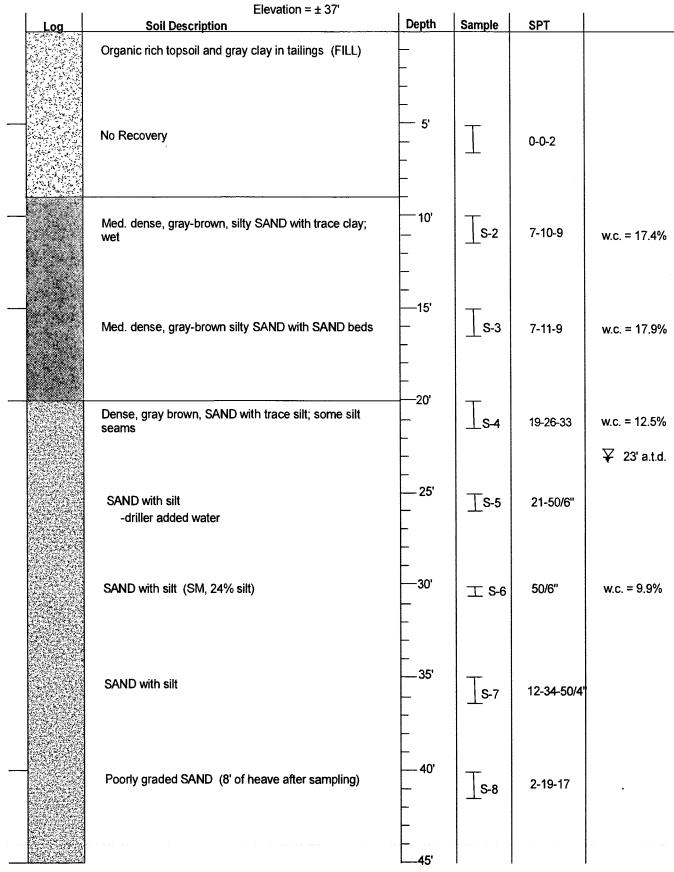
5214 Ballard Ave. NW Seattle, Washington



The Galli Group Geotechnical Consulting 5034 - 18th Avenue NE Seattle, WA 98105

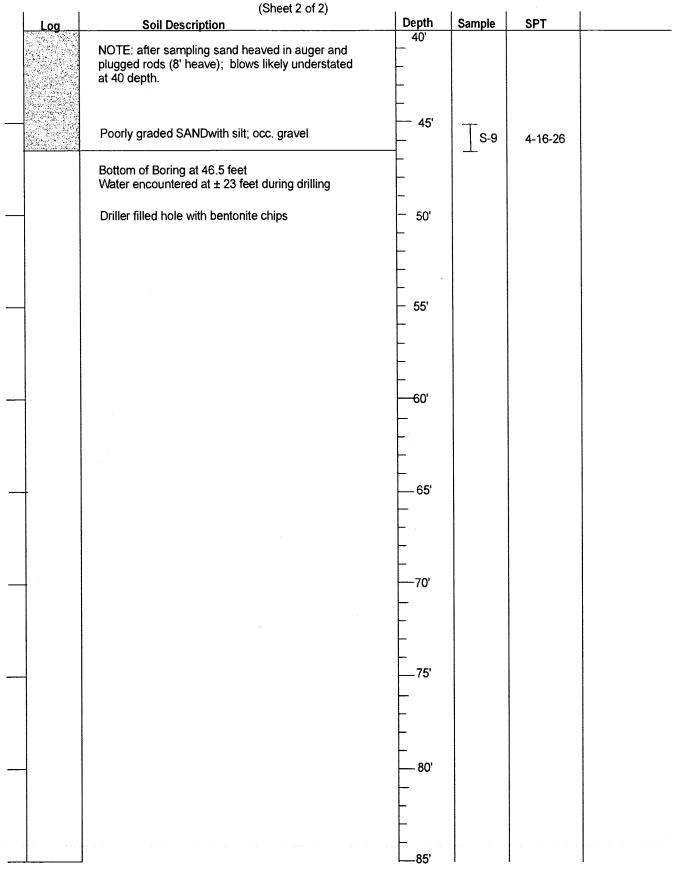
5214 Ballard Ave. NW Seattle, Washington

Boring Log B-3



The Galli Group Geotechnical Consulting 5034 - 18th Avenue NE Seattle, WA 98105

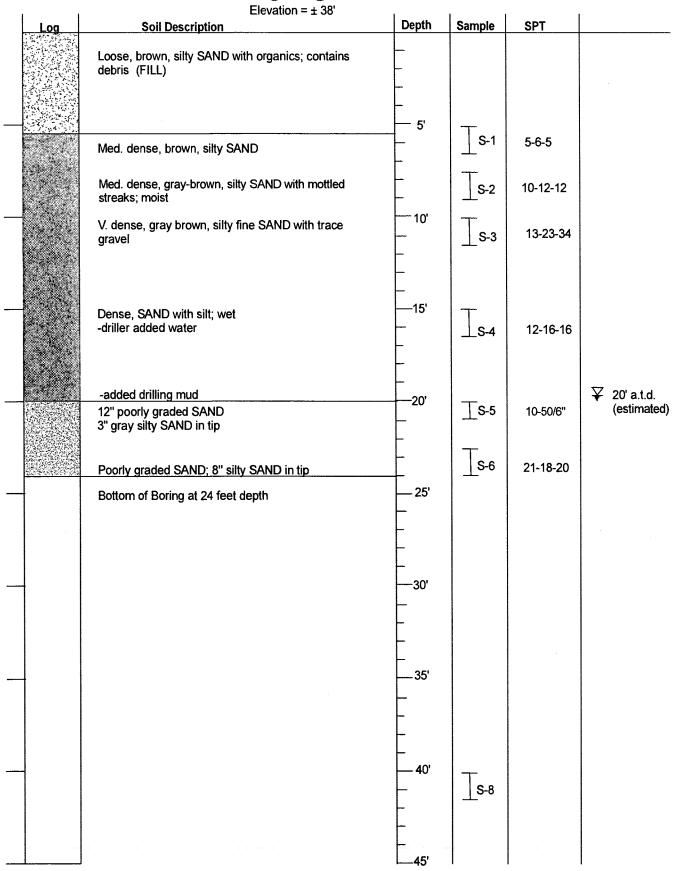
5214 Ballard Ave. NW Seattle, Washington



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5214 Ballard Ave. NW Seattle, Washington

Boring Log B-4



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5214 Ballard Ave. NW Seattle, Washington

APPENDIX B

ANALYTICAL LABORATORY REPORTS



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 7, 2012

Chuck Lie Terra Associates, Inc. 12525 Willows Road, Suite 101 Kirkland, WA 98034

Re:

Analytical Data for Project 6552 Laboratory Reference No. 1205-020

Dear Chuck:

Enclosed are the analytical results and associated quality control data for samples submitted on May 2, 2012.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: May 7, 2012 Samples Submitted: May 2, 2012 Laboratory Reference: 1205-020

Project: 6552

Case Narrative

Samples were collected on May 2, 2012 and received by the laboratory on May 2, 2012. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

The chromatograms for samples 3A and 102 are similar to mineral spirits.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 7, 2012 Samples Submitted: May 2, 2012 Laboratory Reference: 1205-020 Project: 6552

NWTPH-Gx/BTEX

Matrix: Air

Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	3A	10 1 200				
Laboratory ID:	05-020-01					
Benzene	ND	1.0	EPA 8021	5-3-12	5-3-12	
Toluene	ND	1.0	EPA 8021	5-3-12	5-3-12	
Ethyl Benzene	ND	1.0	EPA 8021	5-3-12	5-3-12	
m,p-Xylene	4.2	1.0	EPA 8021	5-3-12	5-3-12	
o-Xylene	ND	5.0	EPA 8021	5-3-12	5-3-12	U1
Gasoline	1900	100	NWTPH-Gx	5-3-12	5-3-12	Z
Surrogate:	Percent Recovery	Control Limits				_
Fluorobenzene	89	73-121				
Client ID:	102					
Laboratory ID:	05-020-02					
Benzene	ND	1.0	EPA 8021	5-3-12	5-3-12	
Toluene	ND	1.0	EPA 8021	5-3-12	5-3-12	
Ethyl Benzene	ND	1.0	EPA 8021	5-3-12	5-3-12	
m,p-Xylene	4.8	1.0	EPA 8021	5-3-12	5-3-12	
o-Xylene	ND	5.0	EPA 8021	5-3-12	5-3-12	U1
Gasoline	1700	200	NWTPH-Gx	5-3-12	5-3-12	Z
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	96	73-121				

Date of Report: May 7, 2012 Samples Submitted: May 2, 2012 Laboratory Reference: 1205-020

Project: 6552

NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Air

Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK					~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Laboratory ID:	MB0503A1					
Benzene	ND	1.0	EPA 8021	5-3-12	5-3-12	
Toluene	ND	1.0	EPA 8021	5-3-12	5-3-12	
Ethyl Benzene	ND	1.0	EPA 8021	5-3-12	5-3-12	
m,p-Xylene	ND	1.0	EPA 8021	5-3-12	5-3-12	
o-Xylene	ND	5.0	EPA 8021	5-3-12	5-3-12	
Gasoline	ND	100	NWTPH-Gx	5-3-12	5-3-12	
Surrogate:	Percent Recovery	Control Limits				

Surrogate: Fluorobenzene Percent Recovery 98 Control Limits 73-121

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike Level		Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	05-02	20-02								
	ORIG	DUP								
Benzene	ND	ND	NA	NA		NA	NA	NA	30	
Toluene	ND	ND	NA	NA		NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA		NA	NA	NA	30	
m,p-Xylene	4.78	4.28	NA	NA		NA	NA	11	30	
o-Xylene	ND	ND	NA	NA		NA	NA	NA	30	
Gasoline	1710	1440	NA	NA		NA	NA	19	30	

Surrogate: Fluorobenzene

96 95 73-121



Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical ______
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- Y Sample extract treated with an acid/silica gel cleanup procedure.
- Z The sample chromatogram is similar to mineral spirits.
- ND Not Detected at PQL
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference

	Gusie Cotionomers	Sec s
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Chain of Custody

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Project Name:			Gr.						g		-	ļ	8081	82 823	88 815				-					
### CONTRACTOR C	LJ St	Standard (7 Days) (TPH analysis 5 Days)							826	Sis	N-lew		cides	sticid	bicide				1664					Commence
Project Manager:						X			yatile	70D/	N A B	D.	Pesti	rus Pe	d Her	18	sie		6889					Name of the last
Sampled by: Nicolas Hoffman		(other)			8	IX/BI	×	NWTPH-Dx Volatiles 8260B	Halogenated Volatiles 9260B	les B.	(with low-level PAHs) PAHs 8270D/SIM (low-level)	2	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SiM	Chilorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	10	HEM (oil and grease) 1664				ē	ر
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14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 16, 2012

Chuck Lie Terra Associates, Inc. 12525 Willows Road, Suite 101 Kirkland, WA 98034

Re:

Analytical Data for Project 6552 Laboratory Reference No. 1205-063

Dear Chuck:

Enclosed are the analytical results and associated quality control data for samples submitted on May 8, 2012.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: May 16, 2012 Samples Submitted: May 8, 2012 Laboratory Reference: 1205-063

Project: 6552

Case Narrative

Samples were collected on May 8, 2012 and received by the laboratory on May 8, 2012. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

The chromatogram for sample 102 is similar to mineral spirits.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 16, 2012 Samples Submitted: May 8, 2012 Laboratory Reference: 1205-063 Project: 6552

NWTPH-Gx/BTEX

Matrix: Air

Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	102					
Laboratory ID:	05-063-01					
Benzene	ND	1.0	EPA 8021	5-9-12	5-9-12	
Toluene	ND	1.0	EPA 8021	5-9-12	5-9-12	
Ethyl Benzene	ND	1.0	EPA 8021	5-9-12	5-9-12	
m,p-Xylene	3.4	1.0	EPA 8021	5-9-12	5-9-12	
o-Xylene	ND	5.0	EPA 8021	5-9-12	5-9-12	
Gasoline	2100	200	NWTPH-Gx	5-9-12	5-9-12	Z
Surrogate:	Percent Recovery	Control Limits				

Fluorobenzene 96 73-121 Date of Report: May 16, 2012 Samples Submitted: May 8, 2012 Laboratory Reference: 1205-063

Project: 6552

NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Air

Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509A1					
Benzene	ND	1.0	EPA 8021	5-9-12	5-9-12	
Toluene	ND	1.0	EPA 8021	5-9-12	5-9-12	
Ethyl Benzene	ND	1.0	EPA 8021	5-9-12	5-9-12	
m,p-Xylene	ND	1.0	EPA 8021	5-9-12	5-9-12	
o-Xylene	ND	5.0	EPA 8021	5-9-12	5-9-12	
Gasoline	ND	100	NWTPH-Gx	5-9-12	5-9-12	
Surrogate:	Percent Recovery	Control Limits	· · · · · · · · · · · · · · · · · · ·			
Fluorobenzene	103	73-121				

Analyte	Res	ut	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE		50-0								
Laboratory ID:	05-06	3-01								
	ORIG	DUP					3-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			
Benzene	ND	ND	NA	NA		NA	NA	NA	30	
Toluene	ND	ND	NA	NA		NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA		NA	NA	NA	30	
m,p-Xylene	3.45	3.44	NA	NA		NA	NA	0	30	
o-Xylene	ND	ND	NA	NA		NA	NA	NA	30	
Gasoline	2060	2050	NA	NA		NA	NA	0	30	

Surrogate:

Fluorobenzene 96 101 73-121



Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical ______.
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- Y Sample extract treated with an acid/silica gel cleanup procedure.
- Z The sample chromatogram is similar to mineral spirits.
- ND Not Detected at PQL
- PQL Practical Quantitation Limit
- **RPD Relative Percent Difference**

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Sampled by:	K Lie	<u> </u>	(other)	EI - I AONA FOUNDACHEVIEW - WATER	Mumber of Containers	GB	x/BTEX	×	36	2608	Halogenated Volatiles 8250B	Semivolatiles 8270D/SIM (with low-level PAHs)	NIS/Q		Organochlorine Pesticides 8081A	sphorus P	Chlorinated Acid Herbicides 8151A	4/MTCA	52	HEM (oil and grease) 1664			No. of Contrast			
Nicolas Lab ID Si	M Hottman	Date Sampled	Time	Watrix	o regump	NWTPH-HCID	NWTPH-Gx/8TEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	alogenat	emivolati vith low-k	AHS 8270	PCBs 8082	Irganochi	nganapho	horinate	otal RCR	roup Metals	EM (oil a			No. of Participation of the Pa			% Moisture
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Data Package: Level III 🗍 Level IV 🗍 Electronic Data Deliverables (EDDs) 🗍

Chromatograms with final report

Reviewed/Date

Retinquished
Received
Retinquished

Reviewed/Date



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 30, 2012

Chuck Lie Terra Associates, Inc. 12525 Willows Road, Suite 101 Kirkland, WA 98034

Re:

Analytical Data for Project 6552 Laboratory Reference No. 1205-217

Dear Chuck:

Enclosed are the analytical results and associated quality control data for samples submitted on May 22, 2012.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: May 30, 2012 Samples Submitted: May 22, 2012 Laboratory Reference: 1205-217

Project: 6552

Case Narrative

Samples were collected on May 22, 2012 and received by the laboratory on May 22, 2012. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

The chromatogram for sample 102 is similar to mineral spirits.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 30, 2012 Samples Submitted: May 22, 2012 Laboratory Reference: 1205-217

Project: 6552

NWTPH-Gx/BTEX

Matrix: Air

Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	102					
Laboratory ID:	05-217-01					
Benzene	ND	1.0	EPA 8021	5-24-12	5-24-12	
Toluene	ND	1.0	EPA 8021	5-24-12	5-24-12	
Ethyl Benzene	ND	1.0	EPA 8021	5-24-12	5-24-12	
m,p-Xylene	3.3	1.0	EPA 8021	5-24-12	5-24-12	
o-Xylene	ND	1.0	EPA 8021	5-24-12	5-24-12	
Gasoline	2000	100	NWTPH-Gx	5-24-12	5-24-12	Z
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	73-121				

Date of Report: May 30, 2012 Samples Submitted: May 22, 2012 Laboratory Reference: 1205-217 Project: 6552

NWTPH-Gx/BTEX **QUALITY CONTROL**

Matrix: Air

Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0524A1					
Benzene	ND	1.0	EPA 8021	5-24-12	5-24-12	
Toluene	ND	1.0	EPA 8021	5-24-12	5-24-12	
Ethyl Benzene	ND	1.0	EPA 8021	5-24-12	5-24-12	
m,p-Xylene	ND	1.0	EPA 8021	5-24-12	5-24-12	
o-Xylene	ND	1.0	EPA 8021	5-24-12	5-24-12	
Gasoline	ND	100	NWTPH-Gx	5-24-12	5-24-12	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	73-121				

					Source	Perc	ent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Reco	very	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	05-2	17-01									
	ORIG	DUP									
Benzene	ND	ND	NA	NA		N	A	NA	NA	30	
Toluene	ND	ND	NA	NA		N	Α	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA		N	A	NA	NA	30	
m,p-Xylene	3.30	3.30	NA	NA		N	A	NA	0	30	
o-Xylene	ND	ND	NA	NA		N	Α	NA	NA	30	
Gasoline	1980	1930	NA	NA		N	Α	NA	3	30	
Surrogate:											
Fluorobenzene						89	94	73-121			



Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
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- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical ______
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- Y Sample extract treated with an acid/silica gel cleanup procedure.
- Z The sample chromatogram is similar to mineral spirits.
- ND Not Detected at PQL
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference

ON OnSite Environmental Inc.

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Lab ID Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	WMTPH-G	NWTPH-Dx	AOSECIE C	Halogenated Volatiles 8260R	Semivolatiles 8270D/SIM (with low-level PAHs) PAHs 6270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture
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14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 6, 2012

Chuck Lie Terra Associates, Inc. 12525 Willows Road, Suite 101 Kirkland, WA 98034

Re:

Analytical Data for Project 6552 Laboratory Reference No. 1205-265

Dear Chuck:

Enclosed are the analytical results and associated quality control data for samples submitted on May 29, 2012.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: June 6, 2012 Samples Submitted: May 29, 2012 Laboratory Reference: 1205-265

Project: 6552

Case Narrative

Samples were collected on May 29, 2012 and received by the laboratory on May 29, 2012. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

The chromatogram for sample 102 is similar to mineral spirits.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: June 6, 2012 Samples Submitted: May 29, 2012 Laboratory Reference: 1205-265 Project: 6552

NWTPH-Gx/BTEX

Matrix: Air

Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	102					
Laboratory ID:	05-265-01					
Benzene	ND	1.0	EPA 8021	5-31-12	5-31-12	
Toluene	ND	1.0	EPA 8021	5-31-12	5-31-12	
Ethyl Benzene	ND	1.0	EPA 8021	5-31-12	5-31-12	
m,p-Xylene	3.2	1.0	EPA 8021	5-31-12	5-31-12	
o-Xylene	ND	1.0	EPA 8021	5-31-12	5-31-12	
Gasoline	2200	200	NWTPH-Gx	5-31-12	5-31-12	Z
Surrogate:	Percent Recovery	Control Limits				

Fluorobenzene 96 73-121 Date of Report: June 6, 2012 Samples Submitted: May 29, 2012 Laboratory Reference: 1205-265

Project: 6552

NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Air

Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK					· · · · · · · · · · · · · · · · · · ·	
Laboratory ID:	MB0531A1					
Benzene	ND	1.0	EPA 8021	5-31-12	5-31-12	
Toluene	ND	1.0	EPA 8021	5-31-12	5-31-12	
Ethyl Benzene	ND	1.0	EPA 8021	5-31-12	5-31-12	
m,p-Xylene	ND	1.0	EPA 8021	5-31-12	5-31-12	
o-Xylene	ND	1.0	EPA 8021	5-31-12	5-31-12	
Gasoline	ND	100	NWTPH-Gx	5-31-12	5-31-12	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	95	73-121				
Laboratory ID:	MB0601A2					
Gasoline	ND	100	NWTPH-Gx	6-1-12	6-1-12	***************************************
Surrogate:	Percent Recovery	Control Limits	Mark Control of the C			***************************************
Fluorobenzene	89	73-121				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										***************************************
Laboratory ID:	05-26	35-01								
	ORIG	DUP								
Benzene	ND	ND	NA	NA		NA	NA	NA	30	
Toluene	ND	ND	NA	NA		NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA		NA	NA	NA	30	
m,p-Xylene	3.20	3,20	NA	NA		NA	NA	0	30	
o-Xylene	ND	ND	NA	NA		NA	NA	NA	30	
Gasoline	2230	1790	NA	NA		NA	NA	22	30	
Surrogate:										

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Fluorobenzene 96 94 73-121



Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical ______.
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- Y Sample extract treated with an acid/silica gel cleanup procedure.
- Z The sample chromatogram is similar to mineral spirits.
- ND Not Detected at PQL
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference

	OnSite Environmental	inc.
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14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 19, 2012

Chuck Lie Terra Associates, Inc. 12525 Willows Road, Suite 101 Kirkland, WA 98034

Re:

Analytical Data for Project 6552 Laboratory Reference No. 1206-103

Dear Chuck:

Enclosed are the analytical results and associated quality control data for samples submitted on June 14, 2012.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: June 19, 2012 Samples Submitted: June 14, 2012 Laboratory Reference: 1206-103

Project: 6552

Case Narrative

Samples were collected on June 14, 2012 and received by the laboratory on June 14, 2012. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

The chromatogram for sample 102 is similar to mineral spirits with diesel.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: June 19, 2012 Samples Submitted: June 14, 2012 Laboratory Reference: 1206-103 Project: 6552

NWTPH-Gx/BTEX

Matrix: Air

Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	102					
Laboratory ID:	06-103-01					
Benzene	ND	1.0	EPA 8021	6-15-12	6-15-12	
Toluene	ND	1.0	EPA 8021	6-15-12	6-15-12	
Ethyl Benzene	ND	1.0	EPA 8021	6-15-12	6-15-12	
m,p-Xylene	2.3	1.0	EPA 8021	6-15-12	6-15-12	
o-Xylene	ND	1.0	EPA 8021	6-15-12	6-15-12	
Gasoline	1700	100	NWTPH-Gx	6-15-12	6-15-12	Z
Surrogate:	Percent Recovery	Control Limits		10 10		

92 71-116 Fluorobenzene

Date of Report: June 19, 2012 Samples Submitted: June 14, 2012 Laboratory Reference: 1206-103

Project: 6552

NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Air

Units: ug/L (ppb)

Fluorobenzene

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0615A1					
Benzene	ND	1.0	EPA 8021	6-15-12	6-15-12	
Toluene	ND	1.0	EPA 8021	6-15-12	6-15-12	
Ethyl Benzene	ND	1.0	EPA 8021	6-15-12	6-15-12	
m,p-Xylene	ND	1.0	EPA 8021	6-15-12	6-15-12	
o-Xylene	ND	1.0	EPA 8021	6-15-12	6-15-12	
Gasoline	ND	100	NWTPH-Gx	6-15-12	6-15-12	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	91	71-116				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE								**************************************		
Laboratory ID:	06-10	03-01								
	ORIG	DUP								-
Benzene	ND	ND	NA	NA		NA	NA	NA	30	
Toluene	ND	ND	NA	NA		NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA		NA	NA	NA	30	
m,p-Xylene	2.30	2.20	NA	NA		NA	NA	4	30	
o-Xylene	ND	ND	NA	NA		NA	NA	NA	30	
Gasoline	1680	1700	NA	NA		NA	NA	· Property	30	
Surrogate:										

92

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71-116

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881



Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical _____.
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- Y Sample extract treated with an acid/silica gel cleanup procedure.
- Z The sample chromatogram is similar to mineral spirits with diesel.
- ND Not Detected at PQL
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference

ÚUL Onsite Environmental Inc.

Chain of Custody

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14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 21, 2012

Chuck Lie Terra Associates, Inc. 12525 Willows Road, Suite 101 Kirkland, WA 98034

Re:

Analytical Data for Project 6552 Laboratory Reference No. 1206-120

Dear Chuck:

Enclosed are the analytical results and associated quality control data for samples submitted on June 18, 2012.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

**Enclosures** 

Date of Report: June 21, 2012 Samples Submitted: June 18, 2012 Laboratory Reference: 1206-120

Project: 6552

#### Case Narrative

Samples were collected on June 18, 2012 and received by the laboratory on June 18, 2012. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

# **NWTPH Gx/BTEX Analysis**

The chromatogram for sample 101-103 is similar to mineral spirits.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: June 21, 2012 Samples Submitted: June 18, 2012 Laboratory Reference: 1206-120 Project: 6552

## **NWTPH-Gx/BTEX**

Matrix: Air

Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	101-103					
Laboratory ID:	06-120-01					
Benzene	ND	1.0	EPA 8021	6-19-12	6-19-12	
Toluene	ND	1.0	EPA 8021	6-19-12	6-19-12	
Ethyl Benzene	ND	1.0	EPA 8021	6-19-12	6-19-12	
m,p-Xylene	3.7	1.0	EPA 8021	6-19-12	6-19-12	
o-Xylene	ND	1.0	EPA 8021	6-19-12	6-19-12	
Gasoline	2300	200	NWTPH-Gx	6-19-12	6-19-12	Z
Surrogate:	Percent Recovery	Control Limits				
Florida	00	74 440				

Fluorobenzene 98 71-116 Date of Report: June 21, 2012 Samples Submitted: June 18, 2012 Laboratory Reference: 1206-120

Project: 6552

### NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Air

Units: ug/L (ppb)

Fluorobenzene

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK			12111			
Laboratory ID:	MB0619A1					
Benzene	ND	1.0	EPA 8021	6-19-12	6-19-12	:
Toluene	ND	1.0	EPA 8021	6-19-12	6-19-12	
Ethyl Benzene	ND	1.0	EPA 8021	6-19-12	6-19-12	
m,p-Xylene	ND	1.0	EPA 8021	6-19-12	6-19-12	
o-Xylene	ND	1.0	EPA 8021	6-19-12	6-19-12	
Gasoline	ND	100	NWTPH-Gx	6-19-12	6-19-12	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	95	71-116				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE			*							<del>- 70-00-0</del>
Laboratory ID:	06-12	20-01								
	ORIG	DUP								
Benzene	ND	ND	NA	NA		NA	NA	NA	30	
Toluene	ND	ND	NA	NA		NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA		NA	NA	NA	30	
m,p-Xylene	3.70	3.40	NA	NA		NA	NA	8	30	
o-Xylene	ND	ND	NA	NA		NA	NA	NA	30	
Gasoline	2270	2270	NA	NA		NA	NA	0	30	

98

95

71-116



#### **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical _____.
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- Y Sample extract treated with an acid/silica gel cleanup procedure.
- Z The sample chromatogram is similar to mineral spirits.
- ND Not Detected at PQL
- PQL Practical Quantitation Limit
- **RPD Relative Percent Difference**

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14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 31, 2012

Chuck Lie Terra Associates, Inc. 12525 Willows Road, Suite 101 Kirkland, WA 98034

Re:

Analytical Data for Project 6552 Laboratory Reference No. 1207-210

Dear Chuck:

Enclosed are the analytical results and associated quality control data for samples submitted on July 26, 2012.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

**Enclosures** 

Date of Report: July 31, 2012 Samples Submitted: July 26, 2012 Laboratory Reference: 1207-210

Project: 6552

#### Case Narrative

Samples were collected on July 26, 2012 and received by the laboratory on July 26, 2012. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### NWTPH Gx/BTEX (air) Analysis

The chromatogram for sample 101-103 is similar to mineral spirits.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: July 31, 2012 Samples Submitted: July 26, 2012 Laboratory Reference: 1207-210 Project: 6552

## **NWTPH-Gx/BTEX**

Matrix: Air

Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	101-103					
Laboratory ID:	07-210-01					
Benzene	ND	1.0	EPA 8021	7-27-12	7-27-12	
Toluene	ND	1.0	EPA 8021	7-27-12	7-27-12	
Ethyl Benzene	ND	1.0	EPA 8021	7-27-12	7-27-12	
m,p-Xylene	2.9	1.0	EPA 8021	7-27-12	7-27-12	
o-Xylene	ND	1.0	EPA 8021	7-27-12	7-27-12	
Gasoline	1700	100	NWTPH-Gx	7-27-12	7-27-12	Z
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	101	71-116				

Date of Report: July 31, 2012 Samples Submitted: July 26, 2012 Laboratory Reference: 1207-210 Project: 6552

## NWTPH-Gx/BTEX **QUALITY CONTROL**

Matrix: Air

Units: ug/L (ppb)

				Date	Date	
Analyte	Result PQL Method		Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0727A1					
Benzene	ND	1.0	EPA 8021	7-27-12	7-27-12	
Toluene	ND	1.0	EPA 8021	7-27-12	7-27-12	
Ethyl Benzene	ND	1.0	EPA 8021	7-27-12	7-27-12	
m,p-Xylene	ND	1.0	EPA 8021	7-27-12	7-27-12	
o-Xylene	ND	1.0	EPA 8021	7-27-12	7-27-12	
Gasoline	ND	100	NWTPH-Gx	7-27-12	7-27-12	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	105	71-116				

					Source	Percent	Recovery		RPD	
Analyte	Res	suit	Spike Level		Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE									~~	
Laboratory ID:	07-2 ⁻	10-01								
	ORIG	DUP						·		
Benzene	ND	ND	NA	NA		NA	NA	NA	30	
Toluene	ND	ND	NA	NA		NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA		NA	NA	NA	30	
m,p-Xylene	2.90	2.60	NA	NA		NA	NA	11	30	
o-Xylene	ND	ND	NA	NA		NA	NA	NA	30	
Gasoline	1700	1670	NA	NA		NA	NA	2	30	Z

Surrogate:

Fluorobenzene

101 105 71-116



#### **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical _____
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- Y Sample extract treated with an acid/silica gel cleanup procedure.
- Z The sample chromatogram is similar to mineral spirits.
- ND Not Detected at PQL
- PQL Practical Quantitation Limit
- **RPD Relative Percent Difference**

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# **Chain of Custody**

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