SoundEarth Strategies, Inc.
2811 Fairview Avenue East, Suite 2000
Seattle, Washington 98102

January 7, 2015

Mr. Daniel Bretzke
City of Seattle
Department of Finance and Administrative Services
700 Fifth Avenue
Seattle, Washington 98124

SUBJECT: PHASE II ENVIRONMENTAL SITE ASSESSMENT
Myers Way Property
9501 Myers Way South
Seattle, Washington
Project Number: 0987-010

Dear Mr. Bretzke:

SoundEarth Strategies, Inc. (SoundEarth) is pleased to submit this Phase II Environmental Site Assessment (Phase II ESA) for the above-referenced property located in Seattle, Washington (the Property). The Property is undeveloped and consists of eight irregularly-shaped tax parcels (King County Parcel Nos. 3224049082, 0623049001, 0523049012, 0523049013, 0623049328, 0523049218, 0623049053, and 0523049259) that cover a total of approximately 1,545,038 square feet (35.47 acres). The Property includes an easement for power transmission lines. The Property location is shown on Figure 1.

Information gathered by SoundEarth during a Phase I Environmental Assessment (Phase I ESA) of the Property in November 2014 confirmed the presence of impacted fill material beneath the Property, a constituted recognized environmental condition. The purpose of the Phase II ESA was to assess the current environmental quality of soil and groundwater beneath the Property as it relates to the impacted fill material.

PROPERTY BACKGROUND

According to information gathered in the course of SoundEarth's Phase I ESA of the Property, it appears that the Property was initially developed with residences in the 1920s. The Property was used as a gravel and sand quarry from approximately 1943 through at least 1990. Extensive regrading activities occurred on the Property during its operation as a gravel and sand quarry. According to the Preliminary Subsurface Exploration Report, prepared by Terra Associates and dated February 18, 1985, localized areas where sand was excavated and exported was replaced by uncontrolled fill material at the Property. Some of this uncontrolled fill material reportedly contained pieces of asphalt, wood, bricks, and concrete. According to the Phase I Environmental Assessment Report, prepared by Environmental Equalizers, Inc., and dated April 19, 2005, the former Property owner, Nintendo of America, Inc., received a notice of violation from the City of Seattle in 2001 for conducting grading activities without a permit. Approximately 36,000 cubic yards of fill material was encountered at the Property during a

previous geotechnical investigation. The source of the fill material was not included in available records. Previous subsurface investigations demonstrated that soil and groundwater samples were impacted by polycyclic aromatic hydrocarbons (PAHs) and metals (arsenic, cadmium, chromium, and lead). Concentrations of arsenic, cadmium, and lead exceeded their respective Method A cleanup levels established under the Washington State Model Toxics Control Act (MTCA) Cleanup Regulation as established in Chapter 173-340 of the Washington Administrative Code. Groundwater monitoring wells associated with previous investigations remain at the Property.

INVESTIGATION

SoundEarth conducted the Phase II ESA at the Property in November 2014.The scope of work associated with the Phase II ESA included the following:

- Preparing a health and safety plan in accordance with MTCA and Part 1910.120 of Title 29 of the Code of Federal Regulations before initiating field activities.
- Completing public and private utility locates.
- Developing existing wells PGG-1, PGG-2, and PGG-3 using a submersible pump.
- Advancing fourteen direct-push soil borings to approximate depths ranging from 15 to 20 feet below ground surface (bgs) and completing thirteen of the borings as groundwater monitoring wells (Figure 2).
  - Six soil borings (P01 through P06) were advanced in the vicinity of soil boring DP-10, where soil impacts had previously been identified by others. Borings P01 through P06 were completed as monitoring wells MW01 through MW06, respectively.
  - Seven soil borings (P07 through P14) were advanced on other portions of the Property. Borings P07 through P11, P13, and P14 were completed as monitoring wells MW07 through MW13, respectively.
- Collecting one or more soil samples from each of the direct-push soil borings.
- Developing each of the newly installed monitoring wells using a vactor truck.
- Collecting one groundwater sample from each of the three existing monitoring wells and the thirteen newly installed monitoring wells.
- Submitting select samples for laboratory analysis of one or more of the following chemicals of concern:
  - Gasoline-range petroleum hydrocarbons (GRPH) by Northwest Total Petroleum Hydrocarbon (NWTPH) Method NWTPH-Gx.
  - Diesel- and oil-range petroleum hydrocarbons (DRPH and ORPH, respectively) by Method NWTPH-Dx.
  - Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by U.S. Environmental Protection Agency (EPA) Method 8021B.
  - Total and dissolved MTCA 5 metals (arsenic, cadmium, chromium, lead, and mercury) by EPA Methods 200.8/1631E.

  - PAHs, including carcinogenic PAHs (cPAHs), by EPA Method 8270D SIM.

- Preparing this report.

A detailed description of the Phase II ESA activities is provided in the following subsections.

Field Activities

Field activities conducted as part of this investigation were performed between November 17 and 25, 2014. Drilling activities were conducted under the supervision of a licensed SoundEarth geologist. Before investigation activities were initiated, a public utility location request was made, and a private utility location survey was conducted by Bravo Environmental of Tukwila, Washington. Direct-push and hollow-stem auger drilling services were provided by ESN Northwest, Inc. of Olympia, Washington.

Soil Sample Collection

Soil borings P01 through P14 were advanced on the Property to approximate depths ranging from 15 to 20 feet bgs (Figure 2). The rational for each boring location is as follows:

- **Borings P01 through P06.** To assess soil and groundwater conditions adjacent to previously completed soil boring DP-10, which exhibited soil with elevated concentrations of arsenic, cadmium, and lead.
- **Borings P07 through P14**. To assess soil and groundwater conditions in the areas identified as potentially containing fill material.

Relatively undisturbed, discrete soil samples were collected from each 5-foot sample interval of each boring. The soil samples were described in accordance with the Unified Soil Classification System and were screened in the field for potential evidence of contamination using visual observations, notations of odor, and by conducting headspace analysis using a photoionization detector (PID) to detect the presence of volatile organic vapors. The Unified Soil Classification System symbol, visual and olfactory notations for the samples, and PID readings were recorded on boring logs forms (Attachment A).

After collection, soil samples selected for laboratory analyses were labeled with a unique sample ID, placed on ice in a cooler, and delivered to Friedman & Bruya, Inc. of Seattle, Washington, under standard chain-of-custody protocols for laboratory analysis. Non-dedicated field sampling equipment was cleaned and decontaminated between uses and before leaving the Property. Soil cuttings and decontamination water were contained on the Property in labeled 55-gallon drums.

Monitoring Well Installation and Development

Borings advanced during the Phase II ESA that encountered groundwater were completed as monitoring wells, and included borings P01 through P11, P13, and P14. Groundwater was not encountered in boring P12. Following achievement of total depth, borings P01 through P11, P13, and P14 were over-drilled, using a hollow-stem auger rig, to accommodate monitoring well construction. The borings were then completed as 2-inch-diameter monitoring wells MW01 through MW13, respectively. Each monitoring well was completed with 10 feet of 0.010-inch slotted well screen that extended from 5 to 15 feet below the top of well casing, with exception of monitoring well MW02 and MW12, which were screened from

10 to 20 and 4 to 14 feet below top of well casing, respectively. Detailed well construction specifications are provided in the boring logs (Attachment A).

Monitoring wells MW01 through MW13 were developed a minimum of 24 hours following installation by surging each well with a stainless steel bailer across the screened interval prior to purging by a vactor truck. Monitoring wells MW01 through MW13 were purged until low turbidity was achieved, and a minimum of 80 gallons were removed from each well except for MW07, which purged dry following removal of approximately 3 gallons of groundwater. The vactor truck was operated by Marine Vacuum Service, Inc. of Seattle, Washington.

Monitoring wells PGG-1, PGG-2, and PGG-3 were redeveloped due to the extended time elapsed since they were last known to have been sampled. Surging and purging of each well was completed with a submersible pump. Each well was purged until the observed high turbidity had diminished, with a minimum of 6 gallons removed from each well. SoundEarth was not provided well construction specifications for monitoring wells PGG-1, PGG-2, or PGG-3, so the screened intervals were unknown during the Phase II ESA field activities. The total depths of monitoring wells PGG-1, PGG-2, and PGG-3 after redevelopment were approximately 32, 29 and 18 feet below top of well casing, respectively.

Groundwater Sample Collection

Groundwater samples were collected from existing monitoring wells PGG-1, PGG-2, and PGG-3 and newly installed monitoring wells MW01 through MW13. Sampling was completed a minimum of 24 hours following well development. Groundwater samples were collected according to EPA *Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures* (April 1996). Purging and sampling of each monitoring well was performed using a peristaltic pump and dedicated polyethylene tubing at a maximum flow rate of 180 milliliters per minute. The tubing intake was placed approximately 2 to 3 feet below the groundwater surface in each monitoring well. During purging, water quality was monitored using a YSI-brand water quality meter equipped with a flow-through cell. The water quality parameters that were monitored and recorded included temperature, pH, specific conductance, dissolved oxygen, turbidity, and oxidation-reduction potential. Each monitoring well was purged until, at a minimum, the subset of pH, specific conductance, and dissolved oxygen or turbidity had stabilized. Following purging, groundwater samples were collected from the pump outlet tubing located upstream of the flow-through cell and placed directly into clean, laboratory-prepared sample containers.

After collection, groundwater samples were labeled with a unique sample ID, placed on ice in a cooler, and delivered to the analytical laboratory under standard chain-of-custody protocols for laboratory analysis. Non-dedicated field sampling equipment was cleaned and decontaminated between uses and before leaving the Property. Purge water was contained on the Property in labeled 55-gallon drums.

SUBSURFACE CONDITIONS

General soil conditions at the Property consisted of silty sandy gravel in the upper 3 to 5 feet. The gravels were underlain by silty sand fill material with variable amounts of organic material (e.g. rootlets and wood) to the total depth explored. Localized pockets of sand, clay, and gravel were encountered within the fill material. A fine-grained, chalk-like, gray stratified material was observed in borings P02, P03, P05, P06, P13, and P14 at depths between 5 and 9.5 feet bgs. The chalky material resembles cement kiln dust (CKD) and was located within the saturated zone in each of the borings where it was

encountered, except boring P02, where it was present above the zone of saturation. A slight sheen was observed on soil and groundwater in boring P08 at a depth of 14.5 to feet bgs. This sheen is suspected to be associated with an organic source rather than petroleum, as no petroleum hydrocarbon odors, staining, or significant PID readings were observed in the soil. Soil observed in the remaining borings did not exhibit obvious signs of petroleum impacts.

Shallow groundwater was encountered in soil borings P01 through P11, P13, and P14 at depths ranging from approximately 5 to 10 feet bgs during drilling activities. Groundwater was encountered in monitoring wells MW01 through MW13 and PGG-3 at depths ranging from 0.51 to 9.21 feet below the top of the monitoring well casings. Groundwater in wells PGG-1 and PGG-2 was encountered at depths of 25.80 and 22.36 feet below the top of the monitoring well casings, respectively. Groundwater samples from all monitoring wells did not exhibit petroleum hydrocarbon sheen or measurable light or dense nonaqueous-phase liquid.

ANALYTICAL RESULTS

Soil analytical results were compared to applicable MTCA Method A cleanup levels and are summarized below:

- Arsenic and lead concentrations were detected in excess of their respective MTCA Method A cleanup levels in soil samples collected from borings P03 (9 feet bgs), P05 (9 feet bgs), and P06 (8.5 feet bgs). Additionally, an arsenic concentration exceeding the MTCA Method A cleanup level was detected in a sample collected from boring P02 at 7 feet bgs. Borings P02, P03, P05, and P06 were located within 50 feet of the previous soil boring DP-10, which contained concentrations of arsenic, cadmium, and lead in excess of the MTCA Method A cleanup levels at 10 feet bgs.
- Concentrations of metals were below their respective MTCA Method A cleanup levels in the remaining analyzed soil samples.
- None of the analyzed soil samples contained concentrations of petroleum hydrocarbons, BTEX constituents, PAHs, or cPAHs that exceeded their respective MTCA Method A cleanup levels.

Groundwater analytical results were compared to applicable MTCA Method A cleanup levels and are summarized below:

- pH ranged from 5.80 to 7.82 in groundwater purged from each of the monitoring wells during sampling activities.
- Concentrations of total and/or dissolved arsenic were detected above the MTCA Method A cleanup level in groundwater collected from monitoring wells MW02 (total only), MW05 (total only), MW06 (total only), MW11, MW12 (dissolved only), and MW13.
- A concentration of total lead was detected above the MTCA Method A cleanup level in the groundwater sample collected from monitoring well MW11.
- The concentration of DRPH in the groundwater sample collected from monitoring well MW07 slightly exceeded the MTCA Method A cleanup level. However, the laboratory result was flagged by the laboratory because the chromatographic pattern does not resemble the fuel standard

used for quantification. Biogenic interference from organic material encountered in the boring may have caused this detection of DRPH.

- Concentrations of DRPH and ORPH were detected below the MTCA Method A cleanup level in the groundwater samples collected from wells MW11, MW12, and MW13. The DRPH and ORPH results were also flagged by the laboratory as having a chromatographic pattern that did not resemble the fuel standard used for quantitation.
- None of the analyzed groundwater samples contained concentrations of GRPH; ORPH; BTEX constituents; total or dissolved cadmium, chromium, and mercury; PAHs; or cPAHs that exceeded their respective MTCA Method A cleanup level.

Laboratory analytical results for soil samples are summarized on Tables 1 and 2 and presented on Figure 3. Laboratory analytical results for groundwater samples are summarized on Tables 3 and 4, and presented on Figure 4. Laboratory analytical reports are presented in Attachment B.

SUMMARY AND CONCLUSIONS

Based on the results of the Phase II ESA, the fill material that was placed on the eastern portion of the Property is impacted with metals in excess of their respective MTCA Method A cleanup levels. Material that is suspected to be CKD was observed in several borings during drilling activities. The CKD material is likely the source of elevated concentrations of metals observed in soil and groundwater beneath the western portion of the Property. The CKD material was observed at depths ranging from 5 to 10 feet bgs in saturated conditions (i.e., in direct contact with groundwater). Groundwater collected from monitoring wells along the eastern, downgradient Property boundary did not contain elevated concentrations of metals. However, the groundwater in two of these monitoring wells (PGG-2 and PGG-3) was encountered at a depth more than 13 feet below the depth encountered in any of the other monitoring wells located on the Property, indicating that multiple shallow water-bearing zones may exist beneath the Property. The extent of CKD material, as well as the extent of soil and groundwater contamination, has not been defined.

Petroleum-contaminated soil was not encountered during the Phase II ESA. A slight exceedance of the MTCA Method A cleanup level for DRPH in groundwater was reported in one groundwater sample collected during the Phase II ESA, and other groundwater samples contained DRPH concentrations that were below the cleanup level. However, the DRPH results were flagged by the laboratory and are likely the result of organic interference from rootlets and pieces of wood encountered in the borings rather than an indication of DRPH impacts in groundwater.

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report are derived, in part, from data gathered by others, and from conditions evaluated when services were performed, and are intended only for the

client, purposes, locations, time frames, and project parameters indicated. Acknowledging that the soil and groundwater samples analyzed in the course of this investigation were collected from widely spaced boring locations and from limited depths, the potential exists that impacts may be present at other locations or depths beneath the Property. We do not warrant and are not responsible for the accuracy or validity of work performed by others, nor from the impacts of changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the use of segregated portions of this report.

CLOSING

SoundEarth appreciates the opportunity to work with you on this project. Please contact the undersigned at 206-306-1900 if you have any questions or require additional information.

Respectfully,

SoundEarth Strategies, Inc.

David Mendel, GT
Staff Geologist

Ryan K. Bixby, LG #1691
President

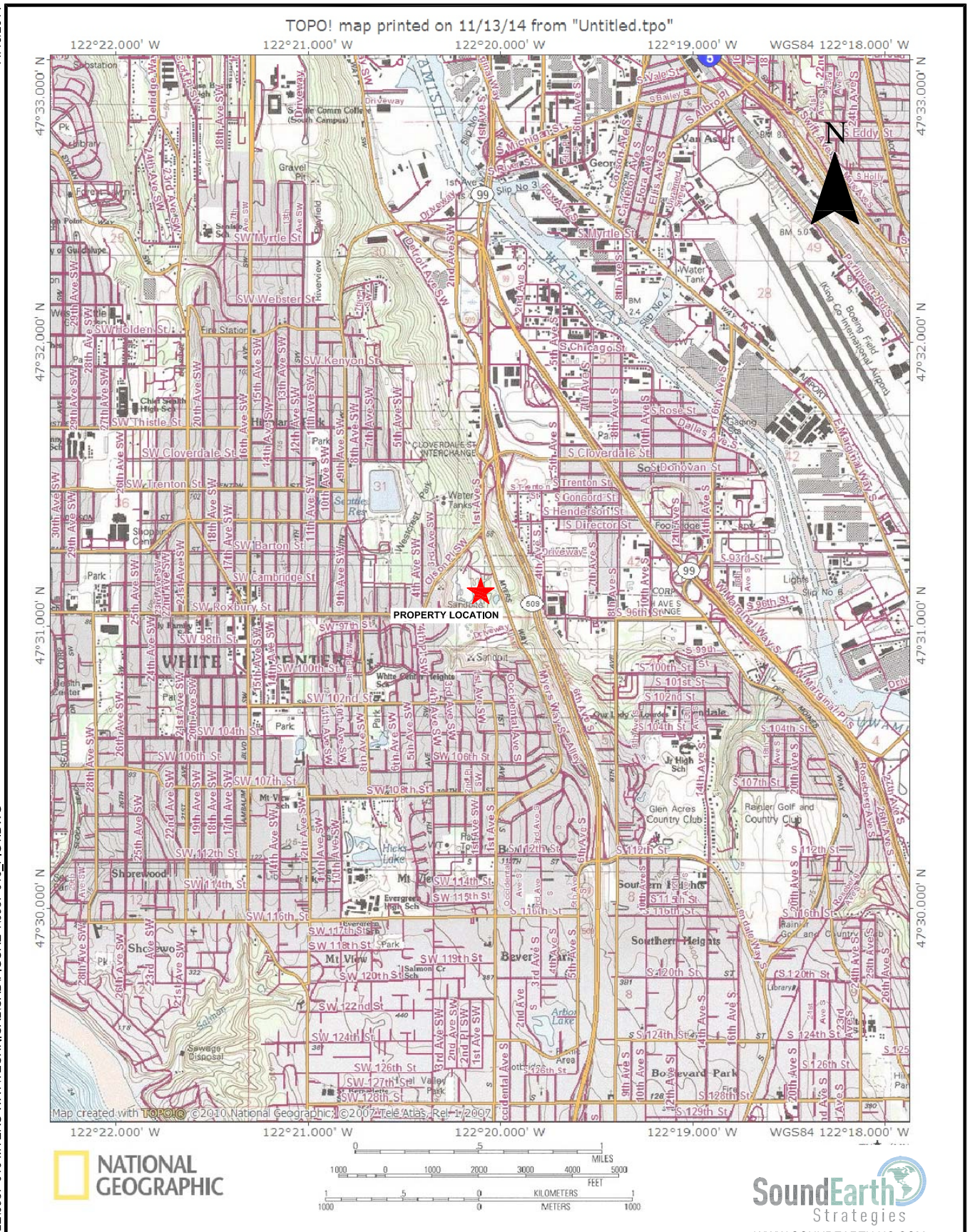
Attachments: Figure 1, Property Location Map
Figure 2, Exploration Location Plan
Figure 3, Soil Analytical Results
Figure 4, Groundwater Analytical Results
Table 1, Summary of Soil Analytical Results for Petroleum Hydrocarbons and Metals
Table 2, Summary of Soil Analytical Results for Polycyclic Aromatic Hydrocarbons
Table 3, Summary of Groundwater Analytical Results for Petroleum Hydrocarbons and Metals
Table 4, Summary of Groundwater Analytical Results for Polycyclic Aromatic Hydrocarbons
A, Boring Logs
B, Laboratory Analytical Reports
Friedman & Bruya, Inc. #411304
Friedman & Bruya, Inc. #411326
Friedman & Bruya, Inc. #411327
Friedman & Bruya, Inc. #411354
Friedman & Bruya, Inc. #411355
Friedman & Bruya, Inc. #411415
Friedman & Bruya, Inc. #411435

DMM/RKB:jac/hsb

FIGURES

11/13/2014

P:\0987 CITY OF SEATTLE\0987-010 MYERS WAY\TECHNICAL\CAD\FIGURE 1\0987-010_FIG1.DWG



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MYERS WAY PROPERTY
0987-010
9501 MYERS WAY SOUTH
SEATTLE, WASHINGTON

FIGURE 1
PROPERTY LOCATION MAP

12/12/2014

P:\0987 CITY OF SEATTLE\0987-010 MYERS WAY\TECHNICAL\CAD\2014\PH2\0987-010_PH2_EL.DWG

N

0 90 180

APPROXIMATE SCALE IN FEET

PARCEL B

B12 B11 B10

TAX PARCEL 3224049082

DP-6

B16

B18

B9 B23

SOUTHWEST ROXBURY STREET

2ND AVENUE SOUTHWEST

B5

P09/MW09

DP-9

P07/MW07

DP-3

B15

B17

B6

B-3

B22

TAX PARCEL 0623049001

B4

TAX PARCEL 0523049012

B01

P01/MW01

PGG-3

B8

P06/MW06

P02/MW02

MYERS WAY SOUTH

INTERSTATE 509

B20

DP-10

P10/MW10

P05/MW05

P03/MW03

SOUTHWEST 97TH PLACE

B14

DP-2

P04/MW04

DP-5

B21

B19

B7

B3

P13/MW12

DP-8

P11/MW11

P14/MW13

P08/MW08

PGG-2

B13

B-1

B2

B1

TAX PARCEL 0523049013

EASEMENT

DP-4

DP-1

TAX PARCEL 0623049328

DP-7

PGG-1

P12

TAX PARCEL 0523049218

PARCEL C

TAX PARCEL 0523049259

B-2

TAX PARCEL 0623049053

OCCIDENTAL AVENUE SOUTH

2ND AVENUE SOUTH

SOUTH 99TH STREET

PARCEL C

SOUTH 100TH STREET

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SS — SEWER LINE
- SOIL BORING
- GEOTECHNICAL BORING
- MONITORING WELL
- GRAVEL AREA
- INFERRED GROUNDWATER FLOW DIRECTION

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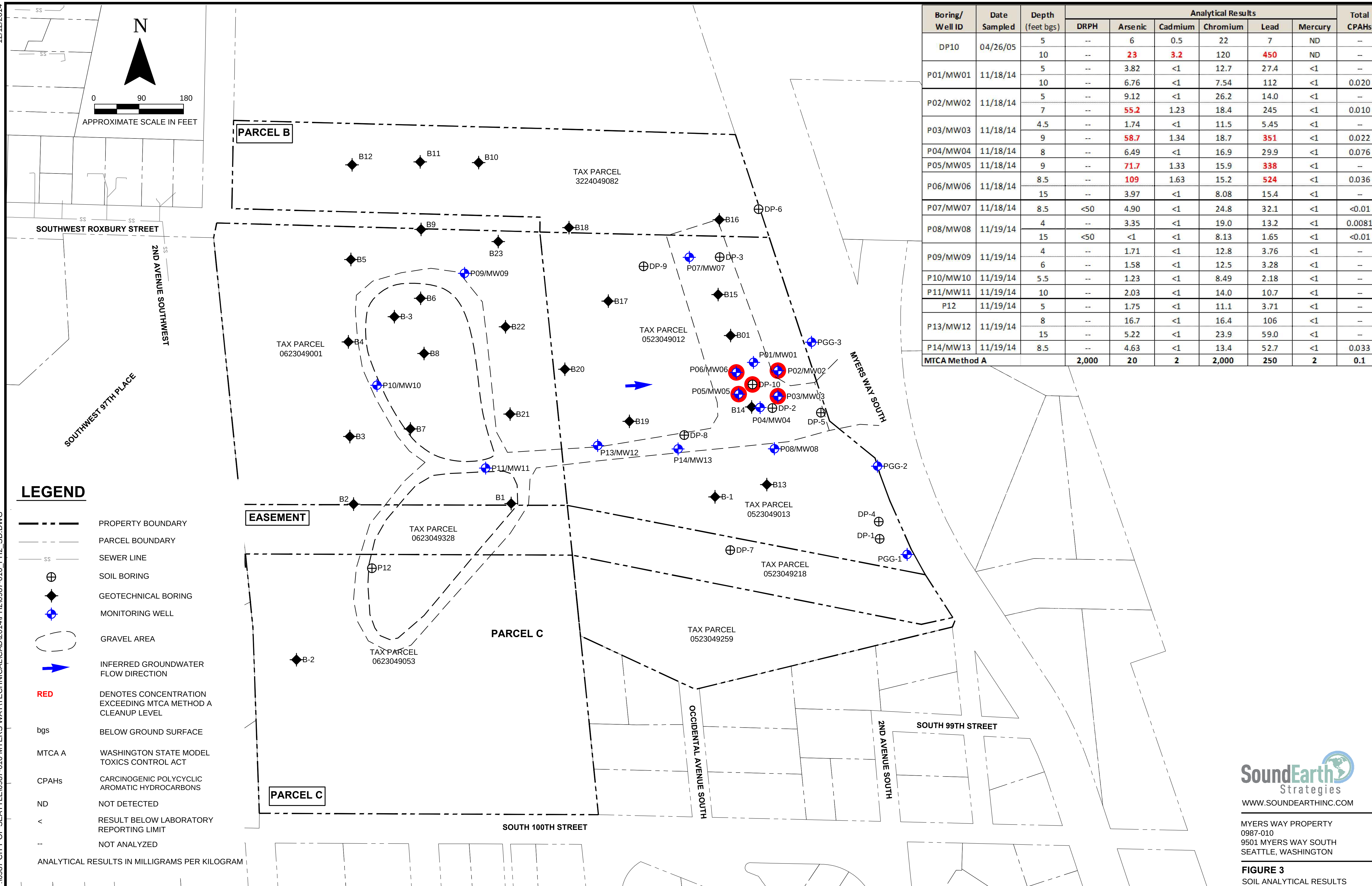
FIGURE 2
EXPLORATION LOCATION PLAN



Boring/ Well ID	Date Sampled	Depth (feet bgs)	Analytical Results						Total CPAHs
			DRPH	Arsenic	Cadmium	Chromium	Lead	Mercury	
DP10	04/26/05	5	--	6	0.5	22	7	ND	--
		10	--	**23**	**3.2**	120	**450**	ND	--
P01/MW01	11/18/14	5	--	3.82	<1	12.7	27.4	<1	--
		10	--	6.76	<1	7.54	112	<1	0.020
P02/MW02	11/18/14	5	--	9.12	<1	26.2	14.0	<1	--
		7	--	**55.2**	1.23	18.4	245	<1	0.010
P03/MW03	11/18/14	4.5	--	1.74	<1	11.5	5.45	<1	--
		9	--	**58.7**	1.34	18.7	**351**	<1	0.022
P04/MW04	11/18/14	8	--	6.49	<1	16.9	29.9	<1	0.076
P05/MW05	11/18/14	9	--	**71.7**	1.33	15.9	**338**	<1	--
P06/MW06	11/18/14	8.5	--	**109**	1.63	15.2	**524**	<1	0.036
		15	--	3.97	<1	8.08	15.4	<1	--
P07/MW07	11/18/14	8.5	<50	4.90	<1	24.8	32.1	<1	<0.01
P08/MW08	11/19/14	4	--	3.35	<1	19.0	13.2	<1	0.0081
		15	<50	<1	<1	8.13	1.65	<1	<0.01
P09/MW09	11/19/14	4	--	1.71	<1	12.8	3.76	<1	--
		6	--	1.58	<1	12.5	3.28	<1	--
P10/MW10	11/19/14	5.5	--	1.23	<1	8.49	2.18	<1	--
P11/MW11	11/19/14	10	--	2.03	<1	14.0	10.7	<1	--
P12	11/19/14	5	--	1.75	<1	11.1	3.71	<1	--
P13/MW12	11/19/14	8	--	16.7	<1	16.4	106	<1	--
		15	--	5.22	<1	23.9	59.0	<1	--
P14/MW13	11/19/14	8.5	--	4.63	<1	13.4	52.7	<1	0.033
MTCA Method A			**2,000**	**20**	**2**	**2,000**	**250**	**2**	**0.1**

LEGEND

Symbol	Description
(line)	PROPERTY BOUNDARY
(line)	PARCEL BOUNDARY
SS	SEWER LINE
⊕	SOIL BORING
◆	GEOTECHNICAL BORING
(symbol)	MONITORING WELL
(symbol)	GRAVEL AREA
(arrow)	INFERRED GROUNDWATER FLOW DIRECTION
RED	DENOTES CONCENTRATION EXCEEDING MTCA METHOD A CLEANUP LEVEL
bgs	BELOW GROUND SURFACE
MTCA A	WASHINGTON STATE MODEL TOXICS CONTROL ACT
CPAHs	CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBONS
ND	NOT DETECTED
<	RESULT BELOW LABORATORY REPORTING LIMIT
--	NOT ANALYZED

ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM

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SEATTLE, WASHINGTON

FIGURE 3
SOIL ANALYTICAL RESULTS

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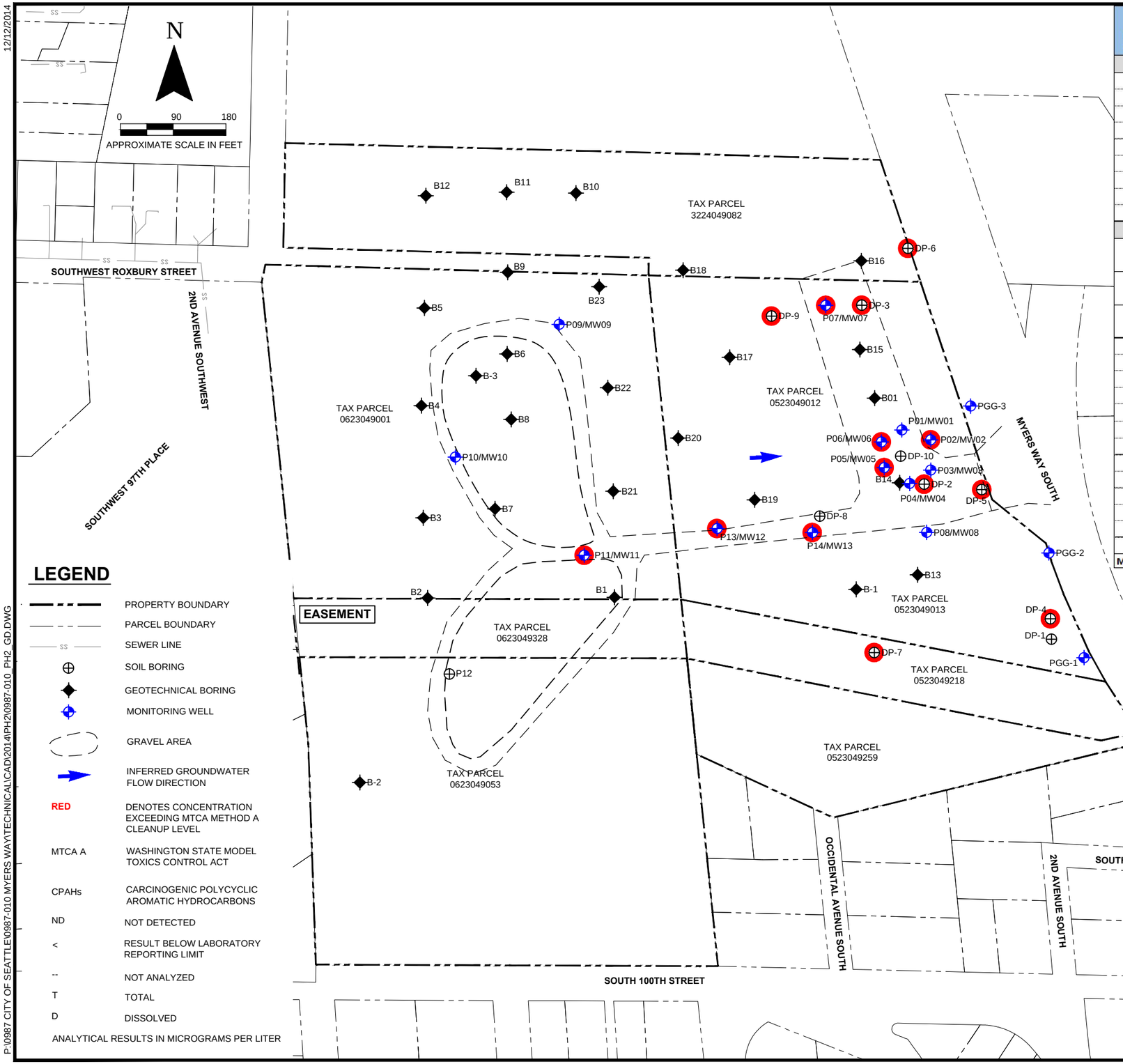
12/12/2014



LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SS — SEWER LINE
- SOIL BORING
- GEOTECHNICAL BORING
- MONITORING WELL
- GRAVEL AREA
- INFERRED GROUNDWATER FLOW DIRECTION
- RED — DENOTES CONCENTRATION EXCEEDING MTCA METHOD A CLEANUP LEVEL
- MTCA A — WASHINGTON STATE MODEL TOXICS CONTROL ACT
- CPAHs — CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBONS
- ND — NOT DETECTED
- < — RESULT BELOW LABORATORY REPORTING LIMIT
- -- — NOT ANALYZED
- T — TOTAL
- D — DISSOLVED

ANALYTICAL RESULTS IN MICROGRAMS PER LITER

Boring/ Well ID	Date Sampled	Analytical Results											
			Arsenic		Cadmium		Chromium		Lead		Mercury		
		DRPH	T	D	T	D	T	D	T	D	T	D	CPAHs
Reconnaissance Groundwater Samples													
DP-1	04/04/05	--	3.27	--	ND	--	6.27	--	1.12	--	ND	--	ND
DP-2	04/04/05	--	523	--	2.29	--	35.7	--	620	--	ND	--	0.038
DP-3	04/04/05	--	5.26	--	ND	--	2.86	--	1.03	--	ND	--	--
DP-4	04/26/05	--	41	--	ND	--	11	--	30	--	ND	--	--
DP-5	04/26/05	--	170	--	1,400	--	24	--	2,200	--	ND	--	--
DP-6	04/26/05	--	ND	--	ND	--	24	--	37	--	ND	--	--
DP-7	04/26/05	--	39	--	ND	--	17	--	55	--	ND	--	--
DP-8	04/26/05	--	120	--	ND	--	81	--	69	--	ND	--	--
DP-9	04/26/05	--	100	--	ND	--	31	--	46	--	ND	--	--
Groundwater Samples													
PGG-1	05/31/05	--	--	<3.0	--	<4.0	--	<10	--	<1.0	--	<0.50	--
	11/19/14	--	--	<1	--	<1	--	2.14	--	<1	--	<0.1	<0.1
PGG-2	05/31/05	--	--	<3.0	--	<4.0	--	<10	--	<1.0	--	<0.50	--
	11/20/14	--	--	<1	--	<1	--	<1	--	<1	--	<0.1	<0.1
PGG-3	05/31/05	--	--	<3.0	--	<4.0	--	<10	--	<1.0	--	<0.50	--
	11/20/14	--	--	<1	--	<1	--	<1	--	<1	--	<0.1	<0.1
MW01	11/24/14	--	3.03	--	<1	--	1.15	--	<1	--	<1	--	<0.1
MW02	11/24/14	--	9.78	--	<1	--	2.03	--	4.30	--	<1	--	<0.1
MW03	11/24/14	--	2.25	--	<1	--	1.61	--	<1	--	<1	--	<0.1
MW04	11/24/14	--	<1	--	<1	--	<1	--	<1	--	<1	--	<0.1
MW05	11/24/14	--	6.36	--	<1[J]	--	2.15	--	<1	--	<1	--	<0.1
MW06	11/24/14	--	34.0	--	<1[J]	--	2.54	--	1.25	--	<1	--	<0.1
MW07	11/25/14	520	4.11	4.69	<1	<1	1.23	1.06	<1	<1	<0.1	<0.1	<0.1
MW08	11/24/14	<50	1.53	--	<1	--	2.00	--	<1	--	<1	--	<0.1
MW09	11/25/14	<60	1.45	1.39	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1
MW10	11/25/14	<60	1.30	1.09	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1
MW11	11/25/14	380	20.3	21.0	1.27	<5	33.3	16.3	71.6	12.9	0.51	<0.1	<0.1
MW12	11/25/14	310	4.98	5.12	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1
MW13	11/25/14	370	32.7	29.7	<1	<1	1.94	<1	<1	<1	<0.1	<0.1	<0.1
MTCA Method A		**500**	**5**		**5**		**50**		**15**		**2**		**0.1**

SoundEarth Strategies
WWW.SOUNDEARTHINC.COM

MYERS WAY PROPERTY
0987-010
9501 MYERS WAY SOUTH
SEATTLE, WASHINGTON

FIGURE 4
GROUNDWATER ANALYTICAL RESULTS

P:\0987 CITY OF SEATTLE\0987-010 MYERS WAY\TECHNICAL\CAD\2014\PH2\0987-010_PH2_GD.DWG

TABLES

SoundEarth Strategies

Table 1
Summary of Soil Analytical Results for Petroleum Hydrocarbons and Metals
Myers Way Property
9501 Myers Way South
Seattle, Washington

Boring ID/ Well	Sample ID	Sampled by	Date Sampled	Depth (feet bgs)	Analytical Results (mg/kg)											
					GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Arsenic[4]	Cadmium[4]	Chromium[4]	Lead[4]	Mercury[4]
DP10	DP-10@5'	EEI	04/26/05	5	--	--	--	--	--	--	--	6	0.5	22	7	ND
	DP-10@10'			10	--	--	--	--	--	--	--	**23**	**3.2**	120	**450**	ND
P01/MW01	P01-05	SoundEarth	11/18/14	5	--	--	--	--	--	--	--	3.82	<1	12.7	27.4	<1
	P01-10	SoundEarth		10	--	--	--	--	--	--	--	6.76	<1	7.54	112	<1
P02/MW02	P02-05	SoundEarth	11/18/14	5	--	--	--	--	--	--	--	9.12	<1	26.2	14.0	<1
	P02-07	SoundEarth		7	--	--	--	--	--	--	--	**55.2**	1.23	18.4	245	<1
P03/MW03	P03-04.5	SoundEarth	11/18/14	4.5	--	--	--	--	--	--	--	1.74	<1	11.5	5.45	<1
	P03-09	SoundEarth		9	--	--	--	--	--	--	--	**58.7**	1.34	18.7	**351**	<1
P04/MW04	P04-08	SoundEarth	11/18/14	8	--	--	--	--	--	--	--	6.49	<1	16.9	29.9	<1
P05/MW05	P05-09	SoundEarth	11/18/14	9	--	--	--	--	--	--	--	**71.7**	1.33	15.9	**338**	<1
P06/MW06	P06-08.5	SoundEarth	11/18/14	8.5	--	--	--	--	--	--	--	**109**	1.63	15.2	**524**	<1
	P06-15	SoundEarth		15	--	--	--	--	--	--	--	3.97	<1	8.08	15.4	<1
P07/MW07	P07-08.5	SoundEarth	11/18/14	8.5	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	4.90	<1	24.8	32.1	<1
P08/MW08	P08-04	SoundEarth	11/19/14	4	--	--	--	--	--	--	--	3.35	<1	19.0	13.2	<1
	P08-15	SoundEarth		15	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<1	<1	8.13	1.65	<1
P09/MW09	P09-04	SoundEarth	11/19/14	4	--	--	--	--	--	--	--	1.71	<1	12.8	3.76	<1
	P09-06	SoundEarth		6	--	--	--	--	--	--	--	1.58	<1	12.5	3.28	<1
P10/MW10	P10-05.5	SoundEarth	11/19/14	5.5	--	--	--	--	--	--	--	1.23	<1	8.49	2.18	<1
P11/MW11	P11-10	SoundEarth	11/19/14	10	--	--	--	--	--	--	--	2.03	<1	14.0	10.7	<1
P12	P12-05	SoundEarth	11/19/14	5	--	--	--	--	--	--	--	1.75	<1	11.1	3.71	<1
P13/MW12	P13-08	SoundEarth	11/19/14	8	--	--	--	--	--	--	--	16.7	<1	16.4	106	<1
	P13-15	SoundEarth		15	--	--	--	--	--	--	--	5.22	<1	23.9	59.0	<1
P14/MW13	P14-08.5	SoundEarth	11/19/14	8.5	--	--	--	--	--	--	--	4.63	<1	13.4	52.7	<1
MTCA Method A Cleanup Level[5]					**30/100[6]**	**2,000**	**2,000**	**0.03**	**7**	**6**	**9**	**20**	**2**	**2,000**	**250**	**2**

NOTES:

Red denotes concentration exceeds MTCA Method A Cleanup Level for Soil.

[1]Analyzed by Method NWTPH-Gx.

[2]Analyzed by Method NWTPH-Dx.

[3]Analyzed by EPA Method 8021B.

[4]Analyzed by EPA Method 200.8.

[5]MTCA Cleanup Regulation, Method A Cleanup Levels, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, revised November 2007.

[6]30 mg/kg when benzene is present, 100 mg/kg when benzene is not present.

-- = not analyzed
< = not detected at a concentration exceeding the laboratory reporting limit
bgs = below ground surface
DRPH = diesel-range petroleum hydrocarbons
EEI = Environmental Equalizers, Inc.
EPA = U.S. Environmental Protection Agency
GRPH = gasoline-range petroleum hydrocarbons
mg/kg = milligrams per kilogram
MTCA = Washington State Model Toxics Control Act
ND = not detected above the laboratory reporting limit
NWTPH = northwest total petroleum hydrocarbon
ORPH = oil-range petroleum hydrocarbons
SoundEarth = SoundEarth Strategies, Inc.

Table 2
Summary of Soil Analytical Results for Polycyclic Aromatic Hydrocarbons
Myers Way Property
9501 Myers Way South
Seattle, Washington

Boring ID/ Well	Sample ID	Sampled by	Date Sampled	Depth (feet bgs)	Analytical Results[1] (mg/kg)																cPAHs TTEC[2]
													cPAHs								
					Naphthalene	Acenaphthene	Acenaph-thylene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i)-perylene	Benzo(a) anthracene TEF: 0.1	Chrysene TEF: 0.01	Benzo(a) pyrene TEF: 1	Benzo(b) fluoranthene TEF: 0.1	Benzo(k) fluoranthene TEF: 0.1	Indeno-(1,2,3-cd)pyrene TEF: 0.1	Dibenz(a,h) anthracene TEF: 0.1	
DP10	DP-10@5'	EEI	04/26/05	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	DP-10@10'			10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P01/MW01	P01-05	SoundEarth	11/18/14	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	P01-10	SoundEarth		10	<0.01	<0.01	<0.01	<0.01	0.010	<0.01	0.017	0.021	0.013	0.011	0.017	0.015	0.016	< 0.0100	0.010	< 0.0100	0.020
P02/MW02	P02-05	SoundEarth	11/18/14	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	P02-07	SoundEarth		7	0.017	<0.01	<0.01	<0.01	0.031	<0.01	0.036	0.043	<0.01	0.013	0.019	< 0.01	0.016	< 0.01	< 0.01	< 0.01	0.010
P03/MW03	P03-04.5	SoundEarth	11/18/14	4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	P03-09	SoundEarth		9	0.017	<0.01	<0.01	<0.01	0.038	<0.01	0.054	0.056	0.011	0.021	0.023	0.015	0.027	< 0.01	0.010	< 0.01	0.022
P04/MW04	P04-08	SoundEarth	11/18/14	8	0.016	<0.01	<0.01	<0.01	0.035	<0.01	0.068	0.087	0.052	0.046	0.053	0.057	0.068	0.019	0.044	0.011	0.076
P05/MW05	P05-09	SoundEarth	11/18/14	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P06/MW06	P06-08.5	SoundEarth	11/18/14	8.5	0.015	<0.01	<0.01	<0.01	0.027	<0.01	0.061	0.068	0.023	0.028	0.042	0.025	0.039	0.016	0.018	< 0.01	0.036
	P06-15	SoundEarth		15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P07/MW07	P07-08.5	SoundEarth	11/18/14	8.5	<0.01	<0.01	<0.01	<0.01	0.019	<0.01	0.012	0.014	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01
P08/MW08	P08-04	SoundEarth	11/19/14	4	<0.01	<0.01	<0.01	<0.01	0.011	<0.01	0.014	0.015	<0.01	< 0.01	< 0.01	< 0.01	0.010	< 0.01	< 0.01	< 0.01	0.008
	P08-15	SoundEarth		15	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01
P09/MW09	P09-04	SoundEarth	11/19/14	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	P09-06	SoundEarth		6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P10/MW10	P10-05.5	SoundEarth	11/19/14	5.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P11/MW11	P11-10	SoundEarth	11/19/14	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P12	P12-05	SoundEarth	11/19/14	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P13/MW12	P13-08	SoundEarth	11/19/14	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	P13-15	SoundEarth		15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P14/MW13	P14-08.5	SoundEarth	11/19/14	8.5	0.012	<0.01	<0.01	<0.01	0.028	<0.01	0.042	0.049	0.020	0.023	0.028	0.024	0.029	0.010	0.017	< 0.01	0.033
MTCA Method A Cleanup Level					**5[3]**	**4,800[4]**	**NE**	**3,200[4]**	**NE**	**24,000[4]**	**3,200[4]**	**2,400[4]**	**NE**	**NE**	**NE**	**0.1[3]**	**NE**	**NE**	**NE**	**NE**	**0.1[3]**

NOTES:
[1]Analyzed by EPA Method 8270D SIM.

[2]Calculated using TEF values in accordance with MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 708-2 TEFs for Minimum Required cPAHs under WAC 173-340-708(8)(e). One-half the LRL was used for those concentrations that did not exceed said limit. If all concentrations of CPAHs were below LRLs, the highest LRL was reported as the TTEC.

[3]MTCA Cleanup Regulation, Method A Cleanup Levels, Table 740-1 of Section 900 of Chapter 173-340 of WAC, revised November 2007.

[4]MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Non-Carcinogen, Standard Formula Value, CLARC Website <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

-- = not analyzed
< = not detected at a concentration exceeding the laboratory reporting limit
bgs = below ground surface
cPAH = carcinogenic polycyclic aromatic hydrocarbon
EEI = Environmental Equalizers, Inc.
EPA = U.S. Environmental Protection Agency
LRL = laboratory reporting limit
mg/kg = milligrams per kilogram
MTCA = Washington State Model Toxics Control Act
NE = not established
SoundEarth = SoundEarth Strategies, Inc.
TEF = toxicity equivalency factor
TTEC = Total Toxicity Equivalency Concentration
WAC = Washington Administrative Code

Table 3
Summary of Groundwater Analytical Results for Petroleum Hydrocarbons and Metals
Myers Way Property
9501 Myers Way South
Seattle, Washington

Boring ID/ Well	Sample ID	Sampled by	Date Sampled	Groundwater Depth (Feet BTOC)	Analytical Results (µg/L)																	
					GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	pH[4]	Arsenic[5]		Cadmium[5]		Chromium[5]		Lead[5]		Mercury[6]	
													Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Reconnaissance Groundwater Samples																						
DP-1	DP-GW1	EEI	04/04/05	--	--	--	--	ND	ND	ND	ND	--	3.27	--	ND	--	6.27	--	1.12	--	ND	--
DP-2	DP-GW2	EEI	04/04/05	--	--	--	--	0.27	ND	0.35	ND	--	**523**	--	2.29	--	35.7	--	**620**	--	ND	--
DP-3	DP-GW3	EEI	04/04/05	--	--	--	--	ND	ND	ND	ND	--	**5.26**	--	ND	--	2.86	--	1.03	--	ND	--
DP-4	DP-4GW	EEI	04/26/05	--	--	--	--	ND	ND	ND	ND	--	**41**	--	ND	--	11	--	**30**	--	ND	--
DP-5	DP-5GW	EEI	04/26/05	--	--	--	--	ND	ND	ND	ND	--	**170**	--	**1,400**	--	24	--	**2,200**	--	ND	--
DP-6	DP-6GW	EEI	04/26/05	--	--	--	--	ND	ND	ND	ND	--	ND	--	ND	--	24	--	**37**	--	ND	--
DP-7	DP-7GW	EEI	04/26/05	--	--	--	--	ND	ND	ND	ND	--	**39**	--	ND	--	17	--	**55**	--	ND	--
DP-8	DP-8GW	EEI	04/26/05	--	--	--	--	0.4	0.06	ND	ND	--	**120**	--	ND	--	**81**	--	**69**	--	ND	--
DP-9	DP-9GW	EEI	04/26/05	--	--	--	--	ND	ND	ND	ND	--	**100**	--	ND	--	31	--	**46**	--	ND	--
Groundwater Samples																						
PGG-1	PGG-1	PGG	05/31/05	--	--	--	--	--	--	--	--	--	--	<3.0	--	<4.0	--	<10	--	<1.0	--	<0.50
	PGG1-20141119	SoundEarth	11/19/14	25.80	--	--	--	--	--	--	--	6.63	--	<1	--	<1	--	2.14	--	<1	--	<0.1
PGG-2	PGG-2	PGG	05/31/05	--	--	--	--	--	--	--	--	--	--	<3.0	--	<4.0	--	<10	--	<1.0	--	<0.50
	PGG2-20141120	SoundEarth	11/20/14	22.36	--	--	--	--	--	--	--	6.57	--	<1	--	<1	--	<1	--	<1	--	<0.1
PGG-3	PGG-3	PGG	05/31/05	--	--	--	--	--	--	--	--	--	--	<3.0	--	<4.0	--	<10	--	<1.0	--	<0.50
	PGG2-20141120	SoundEarth	11/20/14	8.82	--	--	--	--	--	--	--	6.62	--	<1	--	<1	--	<1	--	<1	--	<0.1
MW01	MW01-20141124	SoundEarth	11/24/14	4.66	--	--	--	--	--	--	--	6.74	3.03	--	<1	--	1.15	--	<1	--	<1	--
MW02	MW02-20141124	SoundEarth	11/24/14	7.62	--	--	--	--	--	--	--	6.31	**9.78**	--	<1	--	2.03[ca]	--	4.30	--	<1	--
MW03	MW03-20141124	SoundEarth	11/24/14	8.17	--	--	--	--	--	--	--	5.89	2.25	--	<1	--	1.61[ca]	--	<1	--	<1	--
MW04	MW04-20141124	SoundEarth	11/24/14	0.51	--	--	--	--	--	--	--	6.80	<1	--	<1	--	<1[ca]	--	<1	--	<1	--
MW05	MW05-20141124	SoundEarth	11/24/14	5.98	--	--	--	--	--	--	--	6.45	**6.36**[J]	--	<1[J]	--	2.15[J,ca]	--	<1	--	<1	--
MW06	MW06-20141124	SoundEarth	11/24/14	8.17	--	--	--	--	--	--	--	6.95	**34.0**	--	<1[J]	--	2.54[J,ca]	--	1.25	--	<1	--
MW07	MW07-20141125	SoundEarth	11/25/14	7.12	<100	**520**[x]	<300	<1[hs]	<1[hs]	<1[hs]	<3[hs]	7.27	4.11	4.69[pc]	<1	<1[pc]	1.23	1.06[pc]	<1	<1[pc]	<0.1	<0.1
MW08	MW08-20141124	SoundEarth	11/24/14	7.42	<100	<50	<250	<1	<1	<1	<3	7.02	1.53	--	<1	--	2.00	--	<1	--	<1	--
MW09	MW09-20141125	SoundEarth	11/25/14	6.88	<100	<60	<300	<1[hs]	<1[hs]	<1[hs]	<3[hs]	6.16	1.45	1.39[pc]	<1	<1[pc]	<1	<1[pc]	<1	<1[pc]	<0.1	<0.1
MW10	MW10-20141125	SoundEarth	11/25/14	5.16	<100	<60	<300	<1	<1	<1	<3	5.80	1.30	1.09	<1	<1[pc]	<1	<1[pc]	<1	<1[pc]	<0.1	<0.1
MW11	MW11-20141125	SoundEarth	11/25/14	9.21	<100	380[x]	400[x]	<1[cf]	<1[cf]	<1[cf]	<3[cf]	7.82	**20.3**	**21.0**[pc]	1.27	<5[pc]	33.3	16.3[pc]	**71.6**	12.9[pc]	0.51	<0.1
MW12	MW12-20141125	SoundEarth	11/25/14	2.66	<100	310[x]	320[x]	<1[hs]	<1[hs]	<1[hs]	<3[hs]	6.44	4.98	**5.12**[pc]	<1	<1[pc]	<1	<1[pc]	<1	<1[pc]	<0.1	<0.1
MW13	MW13-20141125	SoundEarth	11/25/14	6.82	<100	370[x]	290[x]	<1	<1	<1	<3	6.61	**32.7**	**29.7**[pc]	<1	<1[pc]	1.94	<1[pc]	<1	<1[pc]	<0.1	<0.1
MTCA Method A Cleanup Level[7]					**800/1,000[8]**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**NA**	**5**		**5**		**50**		**15**		**2**	

NOTES:

Red denotes concentration exceeds MTCA Method A cleanup level for groundwater.

[1]Analyzed by Method NWTPH-Gx.

[2]Analyzed by Method NWTPH-Dx.

[3]Analyzed by EPA Method 8021B.

[4]Analyzed in the field using a YSI or similar water quality meter equipped with a flow-through cell

[5]Analyzed by EPA Method 200.8.

[6]Analyzed by EPA Method 1631E.

[7]MTCA Cleanup Regulation, Method A Cleanup Levels, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, revised November 2007.

[8]800 µg/L when benzene is present, 1,000 µg/L when benzene is not present.

Laboratory Notes:

[ca]The calibration results for the analyte were outside of acceptance criteria. The value reported is anestimate.

[cf]The sample was centrifuged prior to analysis.

[hs]Headspace was present in the container used for analysis.

[J]The internal standard associated with the analyte is out of control limits. The reported concentrationis an estimate.

[pc]The sample was received with incorrect preservation or in a container not approved by the method.The value reported should be considered an estimate.

[x]The sample chromatographic pattern does not resemble the fuel standard used for quantitation

-- = not measured or analyzed

< = not detected at a concentration exceeding the laboratory reporting limit

µg/L = micrograms per liter

BTOC = below top of casing

DRPH = diesel-range petroleum hydrocarbons

EEI = Environmental Equalizers, Inc.

EPA = U.S. Environmental Protection Agency

GRPH = gasoline-range petroleum hydrocarbons

MTCA = Washington State Model Toxics Control Act

NA = not applicable

ND = not detected above the laboratory reporting limit

NWTPH = northwest total petroleum hydrocarbon

ORPH = oil-range petroleum hydrocarbons

PGG = Pacific Groundwater Group

SoundEarth = SoundEarth Strategies, Inc.

Table 4
Summary of Groundwater Analytical Results for Polycyclic Aromatic Hydrocarbons
Myers Way Property
9501 Myers Way South
Seattle, Washington

Boring ID/Well	Sample ID	Sampled by	Date Sampled	Analytical Results (µg/L)[1]																cPAHs TTEC[2]
													cPAHs							
				Naphthalene	Acenaphthene	Acenaph-thylene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i) perylene	Benzo(a) anthracene	Chrysene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Indeno (1,2,3-cd) pyrene	Dibenz (a,h) anthracene	
													TEF: 0.1	TEF: 0.01	TEF: 1	TEF: 0.1	TEF: 0.1	TEF: 0.1	TEF: 0.1	
Reconnaissance Groundwater Samples																				
DP-1	DP-GW1	EEI	04/04/05	ND	ND	NR	NR	NR	NR	NR	NR	NR	ND	ND	ND	ND	ND	ND		ND
DP-2	DP-GW2	EEI	04/04/05	0.52	0.144	NR	NR	NR	NR	NR	NR	NR	0.031	0.017	0.031	0.012	0.017	0.012		0.038
DP-3	DP-GW3	EEI	04/04/05	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-4	DP-4GW	EEI	04/26/05	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-5	DP-5GW	EEI	04/26/05	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-6	DP-6GW	EEI	04/26/05	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-7	DP-7GW	EEI	04/26/05	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-8	DP-8GW	EEI	04/26/05	0.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-9	DP-9GW	EEI	04/26/05	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Groundwater Samples																				
PGG-1	PGG-1	PGG	05/31/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PGG1-20141119	SoundEarth	11/19/14	<0.1	<0.1	<0.1	<0.1	0.17	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
PGG-2	PGG-2	PGG	05/31/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PGG2-20141120	SoundEarth	11/20/14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
PGG-3	PGG-3	PGG	05/31/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PGG2-20141120	SoundEarth	11/20/14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
MW01	MW01-20141124	SoundEarth	11/24/14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
MW02	MW02-20141124	SoundEarth	11/24/14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
MW03	MW03-20141124	SoundEarth	11/24/14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
MW04	MW04-20141124	SoundEarth	11/24/14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
MW05	MW05-20141124	SoundEarth	11/24/14	<0.1	0.15	<0.1	0.18	0.38	<0.1	0.21	0.14	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
MW06	MW06-20141124	SoundEarth	11/24/14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
MW07	MW07-20141125	SoundEarth	11/25/14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
MW08	MW08-20141124	SoundEarth	11/24/14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
MW09	MW09-20141125	SoundEarth	11/25/14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
MW10	MW10-20141125	SoundEarth	11/25/14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
MW11	MW11-20141125	SoundEarth	11/25/14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
MW12	MW12-20141125	SoundEarth	11/25/14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
MW13	MW13-20141125	SoundEarth	11/25/14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
MTCA Method A Cleanup Level				**160[3]**	**960[4]**	**NE**	**640[4]**	**NE**	**4,800[4]**	**640[4]**	**480[4]**	**NE**	**NE**	**NE**	**0.1[3]**	**NE**	**NE**	**NE**	**NE**	**0.1[3]**

NOTES:

[1]Analyzed by EPA Method 8270D SIM.

[2]Calculated using TEF values in accordance with MTCA Cleanup Regulation, Chapter 173-340-900 of the WAC, Table 708-2 TEFs for Minimum Required cPAHs under WAC 173-340-708(8)(e). One-half the LRL was used for those concentrations that did not exceeding said limit. If all concentrations of CPAHs were below LRLs, the highest LRL was reported as the TTEC.

[3]MTCA Cleanup Regulation, Method A Cleanup Levels, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, revised November 2007.

[4]MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Non-Carcinogen, Standard Formula Value, CLARC Website <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

-- = not analyzed
< = not detected at a concentration exceeding the laboratory reporting limit
µg/L = micrograms per liter
cPAH = carcinogenic polycyclic aromatic hydrocarbon
EEI = Environmental Equalizers, Inc.
EPA = U.S. Environmental Protection Agency
LRL = laboratory reporting limit
MTCA = Washington State Model Toxics Control Act
ND = not detected above the laboratory reporting limit
NE = not established
NR = not reported
PGG = Pacific Groundwater Group
SoundEarth = SoundEarth Strategies, Inc.
TEF = toxicity equivalency factor
TTEC = Total Toxicity Equivalency Concentration
WAC = Washington Administrative Code

ATTACHMENT A
BORING LOGS

SoundEarth Strategies

Project:	Myers Way Property
Project Number:	0987-010-01
Logged by:	CGC
Date Started:	11/17/14
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	RKB
Date Completed:	11/17/14

BORING LOG | P01 MW01

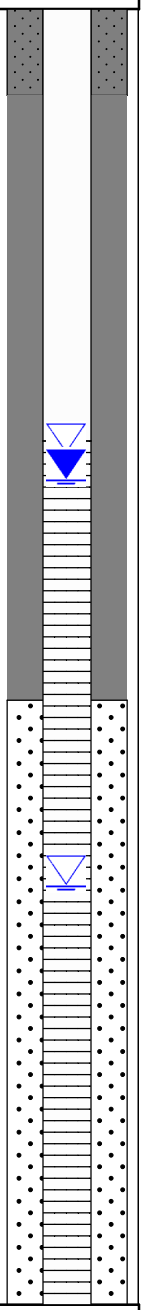
Site Address: 9501 Myers Way South, Seattle, Washington

Water Depth At Time of Drilling 5/10 feet bgs

Water Depth After Completion 5.3 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
0				0.0		GP		**Damp, medium dense, silty sandy GRAVEL, dark brown, no hydrocarbon odor (15-25-60) (FILL).**
			60			SM		**Damp, medium dense, silty fine SAND with gravel, medium brown, some rootlets, no hydrocarbon odor (30-50-20) (FILL).**
						GP		**Damp dense, sandy GRAVEL with some silt, brown, no hydrocarbon odor (10-40-50) (FILL).**
				0.0	P01-05	SM		**Damp, dense, silty SAND with gravel, brown, some rootlets, no hydrocarbon odor (40-50-10) (FILL).**
5						SM		**Saturated, medium dense, silty SAND with gravel, brown, no hydrocarbon odor (30-60-10) (FILL).**
				0.0				**Increasing gravel to 6.5' bgs (30-50-20) (FILL).**
			80			SM		**Damp, dense, silty fine SAND with gravel, gray, no hydrocarbon odor (35-55-10) (FILL).**
				0.0	P01-10	SM		**Damp, dense, silty fine SAND with gravel, dark brown, no hydrocarbon odor (30-55-15) (FILL).**
10								**Damp, dense, silty fine SAND with gravel, gray, no hydrocarbon odor (30-55-15) (FILL).**
				0.0		ML		**Wet to saturated, soft sandy SILT with gravel, brown and gray, no hydrocarbon odor (70-20-10) (FILL).**
			100					
				0.0	P01-15	SM		**Wet, dense, silty fine SAND with gravel, gray, no hydrocarbon odor (30-60-10).**
15								

Well Detail/ Water Depth



Drilling Co./Driller:	ESN/Trever		**Well/Auger Diameter:**	2 / 4.25 ID	inches
Drilling Equipment:	Combo Rig		**Well Screened Interval:**	5 to 15	feet bgs
Sampler Type:	Core Tube		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	NA	lbs	**Filter Pack Used:**	Sand	
Total Boring Depth:	15	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	15	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BIM 048		**Monument Type:**	Flushmount Traffic Grade	

Notes/Comments:

EOB: 15' bgs. Overdrilled probe boring with auger to set well MW01.

SoundEarth Strategies

Project: Myers Way Property
Project Number: 0987-010-01
Logged by: CGC
Date Started: 11/17/14
Surface Conditions: Gravel
Well Location N/S: --
Well Location E/W: --
Reviewed by: RKB
Date Completed: 11/18/14

BORING LOG | P02 MW02

Site Address: 9501 Myers Way South
Seattle, Washington

Water Depth At Time of Drilling 14 feet bgs
Water Depth After Completion 8.1 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
0						GP		**Damp, medium dense, silty sandy GRAVEL, dark brown, no hydrocarbon odor (15-25-60) (FILL).**	
			75	0.0		SM		**Damp, medium dense, silty fine SAND with gravel and some organics, no hydrocarbon odor (30-55-15) (FILL).**	
				0.0	P02-05	SM		**Damp, dense, sandy SILT with gravel and some organics, no hydrocarbon odor (65-30-5) (FILL).**	
5				0.0	P02-07	ML		**Damp, dense, sandy SILT with chalky material, gray/ light gray, no hydrocarbon odor (70-30-0) (FILL).** **At 6' bgs: 3" of sandy SILT, gray, no hydrocarbon odor (70-30-0) (FILL).**	
			80			SM		**Damp, dense, silty fine SAND with gravel, tan, no hydrocarbon odor (30-60-10) (FILL).**	
				0.0		SM		**Damp, dense, silty fine SAND with gravel, dark brown, no hydrocarbon odor (30-55-15) (FILL).**	
10						ML		**Damp, dense, SILT with fine sand, gray, no hydrocarbon odor (90-10-0) (FILL).**	
				0.0		SM		**Damp, dense, silty fine SAND with gravel, brown and gray, no hydrocarbon odor (30-55-15) (FILL?).**	
			75						
				0.0	P02-14			**Wet, dense, silty fine SAND with gravel, brown and gray, no hydrocarbon odor (30-55-15) (FILL?).**	
15									

Drilling Co./Driller: ESN/Trever
Drilling Equipment: Combo Rig
Sampler Type: Core Tube
Hammer Type/Weight: NA lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: 20 feet bgs
State Well ID No.: BIM 049

Well/Auger Diameter: 2 / 4.25 ID inches
Well Screened Interval: 10 to 20 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount Traffic Grade

Notes/Comments:
EOB: 20' bgs. Overdrilled probe boring with auger to set well MW02.

SoundEarth Strategies

Project: Myers Way Property
Project Number: 0987-010-01
Logged by: CGC
Date Started: 11/17/14
Surface Conditions: Gravel
Well Location N/S: --
Well Location E/W: --
Reviewed by: RKB
Date Completed: 11/18/14

BORING LOG | P02 MW02

Site Address: 9501 Myers Way South
Seattle, Washington

Water Depth At Time of Drilling 14 feet bgs
Water Depth After Completion 8.1 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
15			100	0.0		SM		**Saturated, dense, silty fine SAND with gravel, brown and gray, no hydrocarbon odor (30-55-15) (FILL?).**	
20				0.0	P02-20			**End of boring at 20 feet bgs.**	
25									
30									

Drilling Co./Driller: ESN/Trever
Drilling Equipment: Combo Rig
Sampler Type: Core Tube
Hammer Type/Weight: NA lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: 20 feet bgs
State Well ID No.: BIM 049

Well/Auger Diameter: 2 / 4.25 ID inches
Well Screened Interval: 10 to 20 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount Traffic Grade

Notes/Comments:
EOB: 20' bgs. Overdrilled probe boring with auger to set well MW02.

SoundEarth Strategies

Project:	Myers Way Property
Project Number:	0987-010-01
Logged by:	CGC
Date Started:	11/17/14
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	RKB
Date Completed:	11/18/14

BORING LOG | P03 MW03

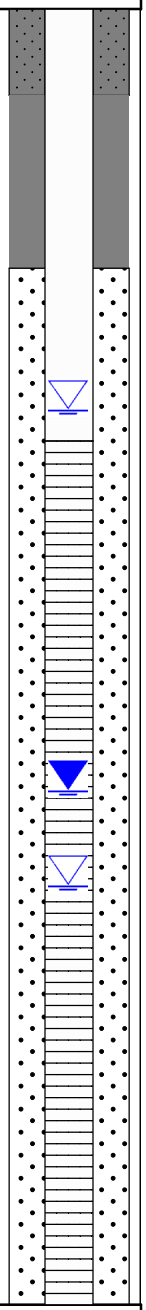
Site Address: 9501 Myers Way South, Seattle, Washington

Water Depth At Time of Drilling 4.5/10 feet bgs

Water Depth After Completion 8.9 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
0				0.0		GP		**Damp, medium dense, silty sandy GRAVEL, dark brown, no hydrocarbon odor (15-25-60) (FILL).**
			70	0.0	P03-04.5			**Damp, medium dense, silty SAND with gravel, brown, some rootlets, no hydrocarbon odor (25-65-10) (FILL).**
5				0.0		SP		**Saturated, medium dense, medium to coarse SAND with silt and gravel, gray, no hydrocarbon odor (5-90-5) (FILL).**
			100	0.0	P03-09	ML		**Damp, dense, sandy SILT wtih gravel, gray, no hydrocarbon odor, pieces of red brick (70-25-5) (FILL).**
						ML		**Piece of tree root. 6" layer of damp, dense, sandy SILT with chalky material (FILL).**
10						SM		**Damp, dense, silty fine SAND with gravel, no hydrocarbon odor (FILL).**
				0.0		SP		**Saturated, dense, fine to coarse SAND with trace silt and gravel, gray, no hydrocarbon odor (5-90-5) (FILL).**
			100					
				0.0	P03-15	SM		**Saturated to wet, dense, silty fine SAND with gravel, gray, no hydrocarbon odor (30-60-10).**
15								

Well Detail/ Water Depth



Drilling Co./Driller:	ESN/Trever		**Well/Auger Diameter:**	2 / 4.25 ID	inches
Drilling Equipment:	Combo Rig		**Well Screened Interval:**	5 to 15	feet bgs
Sampler Type:	Core Tube		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	NA	lbs	**Filter Pack Used:**	Sand	
Total Boring Depth:	15	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	15	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BIM 055		**Monument Type:**	Flushmount Traffic Grade	

Notes/Comments:

EOB: 15' bgs. Overdrilled probe boring with auger to set well MW03.

SoundEarth Strategies

Project:	Myers Way Property
Project Number:	0987-010-01
Logged by:	CGC
Date Started:	11/17/14
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	RKB
Date Completed:	11/18/14

BORING LOG | P04 MW04

Site Address: 9501 Myers Way South, Seattle, Washington

Water Depth At Time of Drilling 4.8/8.0 feet bgs

Water Depth After Completion 2.6 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
0									
				0.0		SM		**Damp, medium dense, silty-sandy GRAVEL, brown, no hydrocarbon odor (15-25-60) (FILL).**	
			60			SM		**Damp, medium dense, silty fine SAND with gravel, brown, no hydrocarbon odor (30-65-5) (FILL).**	
				0.0	P04-03.5	SP		**Wet, medium dense, medium to coarse SAND with silt and gravel, brown, no hydrocarbon odor (5-90-5) (FILL).**	
5						SM		**Damp, dense, silty fine SAND with gravel, brown, no hydrocarbon odor (40-50-10) (FILL).**	
						ML		**Damp, medium dense, sandy SILT, gray, no hydrocarbon odor (80-20-0) (FILL).**	
			100			GP		**Damp, dense, silty-sandy GRAVEL, gray, no hydrocarbon odor (20-30-50) (FILL).**	
				0.0	P04-08	SM		**Wet, dense, silty SAND with gravel, brown, no hydrocarbon odor (30-60-10) (FILL).**	
				0.0		SP		**Wet to saturated, dense, medium to coarse SAND with silt and gravel, brown, no hydrocarbon odor (5-90-5) (FILL).**	
10				0.0					
			100			SM		**Wet, dense, silty fine SAND with trace gravel, dark brown, no hydrocarbon odor (25-70-5) (FILL).**	
				0.0	P04-15			**Piece of potential white plastic (PVC-like) at 14' bgs (FILL).**	
15									

Drilling Co./Driller:	ESN/Trever		**Well/Auger Diameter:**	2 / 4.25 ID	inches
Drilling Equipment:	Combo Rig		**Well Screened Interval:**	5 to 15	feet bgs
Sampler Type:	Core Tube		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	NA	lbs	**Filter Pack Used:**	Sand	
Total Boring Depth:	15	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	15	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BIM 051		**Monument Type:**	Flushmount Traffic Grade	

Notes/Comments:

EOB: 15' bgs. Overdrilled probe boring with auger to set well MW04.

SoundEarth Strategies

Project: Myers Way Property
Project Number: 0987-010-01
Logged by: CGC
Date Started: 11/17/14
Surface Conditions: Gravel
Well Location N/S: --
Well Location E/W: --
Reviewed by: RKB
Date Completed: 11/18/14

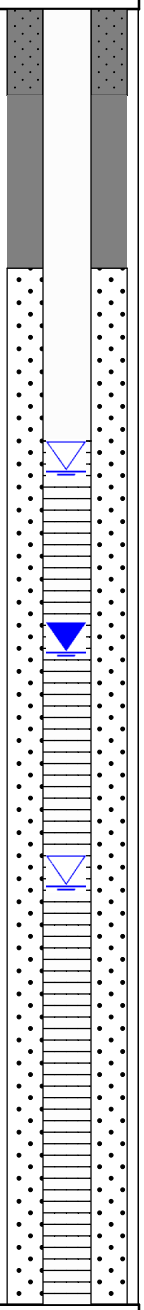
BORING LOG | P05 MW05

Site Address: 9501 Myers Way South
Seattle, Washington

Water Depth At Time of Drilling 5.2/10 feet bgs
Water Depth After Completion 7.3 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
0				0.0		SM		**Damp, medium dense, silty sandy GRAVEL, brown, no hydrocarbon odor (20-30-50) (FILL).**
			40			SM		**Damp, medium dense, silty sandy GRAVEL, brown, no hydrocarbon odor (15-15-70) (FILL).**
						SM-SP		**Damp, medium dense, silty fine SAND with gravel, grading into medium to coarse SAND with trace silt and gravel, brown, no hydrocarbon odor (30-60-10)/(5-90-5) (FILL).**
5				0.0	P05-05			**Damp, medium dense, silty SAND with gravel, interlayered with 2 to 3" thick lenses of coarse SAND with trace silt, gray and brown, no hydrocarbon odor (30-60-10)/(5-90-5) (FILL).**
						SM-SP		**Wet to saturated, medium dense, silty SAND with gravel, interlayered with 2 to 3" thick lenses of coarse SAND with trace silt, gray and brown, no hydrocarbon odor (30-60-10)/(5-90-5) (FILL).**
						SM		**Damp, dense, silty SAND with gravel, gray, no hydrocarbon odor (30-60-10) (FILL).**
			100	0.0		ML		**Damp, dense SILT, gray, no hydrocarbon odor (100-0-0) (FILL).**
						SM		**Damp, dense, silty SAND with gravel, brown and gray, no hydrocarbon odor (20-50-30) (FILL).**
				0.0	P05-09	ML		**Damp, dense, sandy SILT with chalky material, light gray, no hydrocarbon odor (70-30-0)/(40-60-0) (FILL).**
10						SM		**Damp, dense, silty fine SAND with gravel, dark brown, no hydrocarbon odor (35-40-25) (FILL).**
				0.0		SM		**Wet to saturated, dense, silty fine SAND with gravel, gray, no hydrocarbon odor (30-55-15).**
			70					
				0.0	P05-15			
15								

Well Detail/ Water Depth



Drilling Co./Driller:	ESN/Trever		**Well/Auger Diameter:**	2 / 4.25 ID	inches
Drilling Equipment:	Combo Rig		**Well Screened Interval:**	5 to 15	feet bgs
Sampler Type:	Core Tube		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	NA	lbs	**Filter Pack Used:**	Sand	
Total Boring Depth:	15	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	15	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BIM 047		**Monument Type:**	Flushmount Traffic Grade	

Notes/Comments:
EOB: 15' bgs. Overdrilled probe boring with auger to set well MW05.

SoundEarth Strategies

Project:	Myers Way Property
Project Number:	0987-010-01
Logged by:	CGC
Date Started:	11/17/14
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	RKB
Date Completed:	11/18/14

BORING LOG | P06 MW06

Site Address: 9501 Myers Way South, Seattle, Washington

Water Depth At Time of Drilling 5.5/14 feet bgs

Water Depth After Completion 8.7 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
0				0.0		SM		**Damp, medium dense, silty sandy GRAVEL, dark brown, no hydrocarbon odor (20-30-50) (FILL).**	
			55			SM		**Damp, medium dense, silty SAND with gravel, brown, no hydrocarbon odor becoming siltier at 4' bgs (25-65-10)/(35-55-10) (FILL).**	
5				0.0	P06-05	SM		**Damp, medium dense, silty SAND with gravel, brown, no hydrocarbon odor (20-70-10) (FILL). Wet, medium dense, silty SAND with gravel, brown, no hydrocarbon odor (20-70-10) (FILL).**	
						ML		**Damp, dense, sandy SILT, gray, no hydrocarbon odor (70-30-0) (FILL).**	
				0.0		SM		**Damp, dense, silty-sandy GRAVEL, brown, no hydrocarbon odor (20-30-50) (FILL).**	
			80			ML		**Damp, dense, sandy SILT with chalky material, gray-brown and light gray, no hydrocarbon odor (80-20-0) (FILL).**	
				0.0	P06-08.5				
10						SM		**Damp, dense, silty fine SAND with gravel, gray, no hydrocarbon odor (30-60-10) (FILL). Brick pieces at 9.8' bgs.**	
				0.0					
			90			CL		**Damp, stiff, silty CLAY, gray, no hydrocarbon odor (100-0-0) (FILL).**	
				0.0		SM		**Saturated, dense, silty SAND with gravel, gray, no hydrocarbon odor (20-75-5).**	
15					P06-15				

Drilling Co./Driller:	ESN/Trever		**Well/Auger Diameter:**	2 / 4.25 ID	inches
Drilling Equipment:	Combo Rig		**Well Screened Interval:**	5 to 15	feet bgs
Sampler Type:	Core Tube		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	NA	lbs	**Filter Pack Used:**	Sand	
Total Boring Depth:	15	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	15	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BIM 057		**Monument Type:**	Flushmount Traffic Grade	

Notes/Comments:

EOB: 15' bgs. Overdrilled probe boring with auger to set well MW06.

SoundEarth Strategies

Project:	Myers Way Property
Project Number:	0987-010-01
Logged by:	CGC
Date Started:	11/19/14
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	RKB
Date Completed:	11/18/14

BORING LOG | P07 MW07

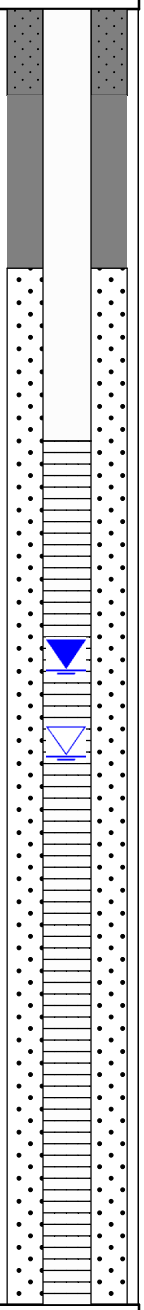
Site Address: 9501 Myers Way South, Seattle, Washington

Water Depth At Time of Drilling 8.5 feet bgs

Water Depth After Completion 7.5 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
0						GP		**Damp, medium dense, silty sandy GRAVEL, dark brown, no hydrocarbon odor (20-30-50) (FILL).**
				0.0		GP		**Damp, medium dense, silty sandy GRAVEL, gray and brown, no hydrocarbon odor (15-40-45) (FILL).**
			70			SM		**Damp, medium dense, silty fine SAND with gravel, light brown, no hydrocarbon odor (30-60-10) (FILL).**
						SP		**Damp, medium dense, fine to medium SAND with silt, light brown, no hydrocarbon odor (10-90-0) (FILL).**
						SM		**Damp, medium dense, silty fine SAND with gravel, dark brown, no hydrocarbon odor (25-70-5) (FILL).**
				0.0	P07-04	GP		**Damp, medium dense, silty sandy GRAVEL, dark brown, no hydrocarbon odor (20-30-50) (FILL).**
5						CL		**Damp, soft silty CLAY, gray, no hydrocarbon odor (100-0-0) (FILL).**
				0.0				
			95					
				0.0	P07-08.5	CL		**Pieces of red brick**
				0.0				**Wet, soft silty CLAY, gray, no hydrocarbon odor (100-0-0) (FILL).**
10								**Pieces of wood present.**
								Saturated, soft silty CLAY, gray, no hydrocarbon odor (100-0-0) (FILL).
				0.0		GP		**Saturated, medium dense, silty-sandy angular GRAVEL, gray and brown, no hydrocarbon odor (15-15-70) (FILL).**
			100			CL		**Wet to saturated, soft silty CLAY, gray, no hydrocarbon odor (100-0-0) (FILL).**
				0.0	P07-15			
15								

Well Detail/ Water Depth



Drilling Co./Driller:	ESN/Trever		**Well/Auger Diameter:**	2 / 4.25 ID	inches
Drilling Equipment:	Combo Rig		**Well Screened Interval:**	5 to 15	feet bgs
Sampler Type:	Core Tube		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	NA	lbs	**Filter Pack Used:**	Sand	
Total Boring Depth:	15	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	15	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BIM 036		**Monument Type:**	Flushmount Traffic Grade	

Notes/Comments:

EOB: 15' bgs. Overdrilled probe boring with auger to set well MW07.

SoundEarth Strategies

Project:	Myers Way Property
Project Number:	0987-010-01
Logged by:	CGC
Date Started:	11/19/14
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	RKB
Date Completed:	11/19/14

BORING LOG | P08 MW08

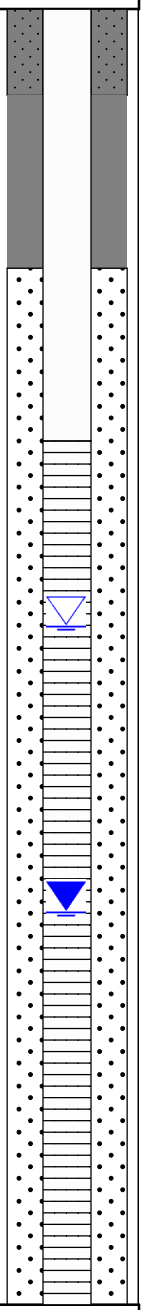
Site Address: 9501 Myers Way South, Seattle, Washington

Water Depth At Time of Drilling 7.0 feet bgs

Water Depth After Completion 10.3 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
0				0.0		GP		**Damp, medium dense, silty sandy GRAVEL, dark brown, no hydrocarbon odor (20-30-50) (FILL).**
			70			SM		**Damp, medium dense, silty fine SAND with gravel, light brown, no hydrocarbon odor (30-60-10) (FILL).**
						GP		**Damp, medium dense, silty sandy GRAVEL, no hydrocarbon odor (25-30-45) (FILL).**
				0.0	P08-04	SM		**Damp, medium dense, silty fine SAND with gravel, brown and tan, some brick fragments, no hydrocarbon odor (25-60-15) (FILL).**
5						SM		**Damp, medium dense, silty SAND with gravel, dark brown, no hydrocarbon odor (20-65-15) (FILL).**
				0.0	P08-07			**Rock in sampler at 6.5 to 6.8' bgs.**
			95			SP		**Wet, medium dense, medium to coarse SAND with silt, brown, no hydrocarbon odor (10-90-0) (FILL).**
				0.0				**Locally more gravel at 9 to 9.5' bgs (10-80-10) (FILL).**
10						SP		**Saturated, medium dense, fine to coarse SAND with silt and trace gravel, brown, no hydrocarbon odor (10-85-5) (FILL).**
			100	0.0				
				0.0	P08-15	SP		**Slight sheen on water and soil at 14.5 to 15' bgs. No hydrocarbon odor.**
15								

Well Detail/ Water Depth



Drilling Co./Driller:	ESN/Trever		**Well/Auger Diameter:**	2 / 4.25 ID	inches
Drilling Equipment:	Combo Rig		**Well Screened Interval:**	5 to 15	feet bgs
Sampler Type:	Core Tube		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	NA	lbs	**Filter Pack Used:**	Sand	
Total Boring Depth:	15	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	15	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BIM 042		**Monument Type:**	Flushmount Traffic Grade	

Notes/Comments:

EOB: 15' bgs. Overdrilled probe boring with auger to set well MW08.

SoundEarth Strategies

Project:	Myers Way Property
Project Number:	0987-010-01
Logged by:	CGC
Date Started:	11/19/14
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	RKB
Date Completed:	11/19/14

BORING LOG | P09 MW09

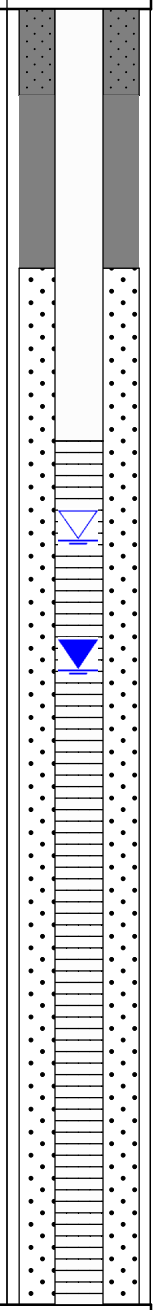
Site Address: 9501 Myers Way South
Seattle, Washington

Water Depth At Time of Drilling 6.0 feet bgs

Water Depth After Completion 7.5 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
0				0.0		GP		**Damp, medium dense, silty sandy GRAVEL, dark brown, no hydrocarbon odor (20-30-50) (FILL).**
			55			SM		**Damp, medium dense, silty fine SAND with gravel, no hydrocarbon odor (30-60-10) (FILL).**
				0.0	P09-04			
5						SM		**Damp, medium dense, silty fine SAND with gravel, gray, no hydrocarbon odor (25-70-5) (FILL).**
				0.0	P09-06			**Wet, medium dense, silty SAND with trace gravel, gray, no hydrocarbon odor (25-70-5) (FILL).**
			80			SM		
				0.0		SP		**Saturated, medium dense, medium to coarse SAND with silt, no hydrocarbon odor (10-90-0) (FILL).**
10				0.0				
			100			SP		**Saturated, medium dense, coarse SAND with silt, brown, no hydrocarbon odor (10-90-0) (FILL).**
				0.0				
15					P09-15			

Well Detail/ Water Depth



Drilling Co./Driller:	ESN/Trever		**Well/Auger Diameter:**	2 / 4.25 ID	inches
Drilling Equipment:	Combo Rig		**Well Screened Interval:**	5 to 15	feet bgs
Sampler Type:	Core Tube		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	NA	lbs	**Filter Pack Used:**	Sand	
Total Boring Depth:	15	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	15	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BIM 037		**Monument Type:**	Flushmount Traffic Grade	

Notes/Comments:

EOB: 15' bgs. Overdrilled probe boring with auger to set well MW09.

SoundEarth Strategies

Project: Myers Way Property
Project Number: 0987-010-01
Logged by: CGC
Date Started: 11/19/14
Surface Conditions: Gravel
Well Location N/S: --
Well Location E/W: --
Reviewed by: RKB
Date Completed: 11/19/14

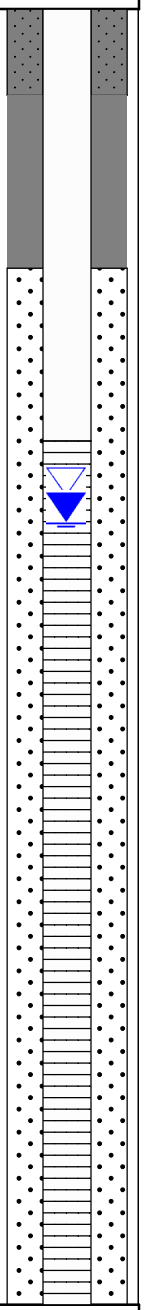
BORING LOG | P10 MW10

Site Address: 9501 Myers Way South
Seattle, Washington

Water Depth At Time of Drilling 5.5 feet bgs
Water Depth After Completion 5.8 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
0						GP		**Damp, medium dense, silty sandy GRAVEL, dark brown, no hydrocarbon odor (20-30-50) (FILL).**
			55	0.0		SM		**Damp, medium dense, silty fine SAND with trace gravel, no hydrocarbon odor (30-65-5) (FILL).**
				0.0	P10-04			
5				0.0	P10-05.5			
			90			SP		**Wet to saturated, fine to coarse SAND with silt, grading to medium to coarse SAND with silt at 6.5' bgs, gray, no hydrocarbon odor (10-90-0) (FILL).**
				0.0				**Wet to saturated, medium to coarse SAND with silt, tan, no hydrocarbon odor (10-90-0) (FILL).**
10						SP		**Sample core tub jammed. Sample hammered out of sleeve onto plastic for internal observation: Saturated, fine to coarse SAND with silt, tan and brown, no hydrocarbon odor (10-90-0) (FILL).**
			100					
				0.0	P10-15			
15								

Well Detail/ Water Depth



Drilling Co./Driller: ESN/Trever
Drilling Equipment: Combo Rig
Sampler Type: Core Tube
Hammer Type/Weight: NA lbs
Total Boring Depth: 15 feet bgs
Total Well Depth: 15 feet bgs
State Well ID No.: BIM 038

Well/Auger Diameter: 2 / 4.25 ID inches
Well Screened Interval: 5 to 15 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount Traffic Grade

Notes/Comments:
EOB: 15' bgs. Overdrilled probe boring with auger to set well MW10.

SoundEarth Strategies

Project: Myers Way Property
Project Number: 0987-010-01
Logged by: CGC
Date Started: 11/19/14
Surface Conditions: Gravel
Well Location N/S: --
Well Location E/W: --
Reviewed by: RKB
Date Completed: 11/19/14

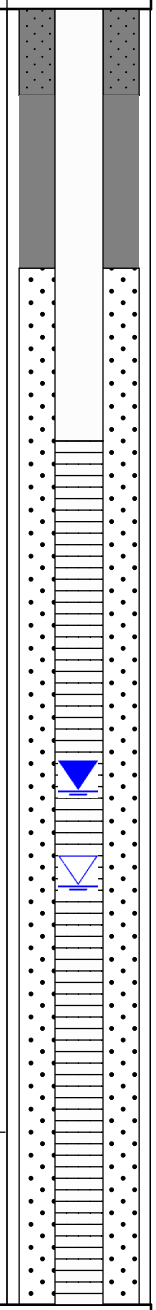
BORING LOG | P11 MW11

Site Address: 9501 Myers Way South
Seattle, Washington

Water Depth At Time of Drilling 10.0 feet bgs
Water Depth After Completion 8.9 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
0						GP		**Damp, medium dense, silty sandy GRAVEL, dark brown, no hydrocarbon odor (20-30-50) (FILL).**
			55	0.0		SM		**Damp, medium dense, silty fine SAND with trace gravel, light brown, no hydrocarbon odor (25-70-5) (FILL).**
				0.0	P11-04			
5				0.0				
			80			SP		**Damp to moist, medium dense, silty fine to medium SAND with trace gravel, gray, no hydrocarbon odor (25-70-5) (FILL).**
				0.0	P11-10			
10						SP		**Saturated, medium dense, medium to coarse SAND with silt, gray, no hydrocarbon odor (10-90-0) (FILL).**
			60		P11-13			
15								**Probe sampler fail at 13' bgs probe boring terminated. Overdrilled with auger to 15' bgs to set well.**

Well Detail/ Water Depth



Drilling Co./Driller:	ESN/Trever		**Well/Auger Diameter:**	2 / 4.25 ID	inches
Drilling Equipment:	Combo Rig		**Well Screened Interval:**	5 to 15	feet bgs
Sampler Type:	Core Tube		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	NA	lbs	**Filter Pack Used:**	Sand	
Total Boring Depth:	13/15	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	15	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BIM 039		**Monument Type:**	Flushmount Traffic Grade	

Notes/Comments:
Probe boring to 13' bgs. Overdrilled boring to 15' bgs with auger to set well MW11.

SoundEarth Strategies

Project:	Myers Way Property
Project Number:	0987-010-01
Logged by:	CGC
Date Started:	11/19/14
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	RKB
Date Completed:	11/19/14

BORING LOG | P12
--

Site Address: 9501 Myers Way South
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
0						GP		**Damp, medium dense, silty sandy GRAVEL, dark brown, no hydrocarbon odor (20-30-50) (FILL).**	
			45	0.0		GP		**Damp, medium dense, silty-sandy GRAVEL, brown, no hydrocarbon odor (20-35-45) (FILL).**	
5				0.0	P12-05	SM		**Damp, medium dense, silty fine SAND with gravel, brown, no hydrocarbon odor (25-70-5) (FILL).** **Moist, medium dense, silty fine SAND with gravel, brown, no hydrocarbon odor (25-70-5) (FILL).** **Locally siltier at 6 to 7.5' bgs (30-65-5) (FILL).**	
			50	0.0					
				0.0	P12-10	SM		**Damp, medium dense, silty fine SAND with gravel, orange-brown, no hydrocarbon odor (40-50-10).**	
10				0.0					
			50					**Rock crushed in sampler.**	
				0.0	P12-15	SP		**Damp, medium dense, medium to coarse SAND with trace silt, tan, no hydrocarbon odor (5-95-0) (FILL).**	
15									

Drilling Co./Driller:	ESN/Trever		**Well/Auger Diameter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	--		**Well Screened Interval:**	--	feet bgs	EOB: 20' bgs. No groundwater seepage encountered.
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	NA	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	20	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: Myers Way Property
Project Number: 0987-010-01
Logged by: CGC
Date Started: 11/19/14
Surface Conditions: Gravel
Well Location N/S: --
Well Location E/W: --
Reviewed by: RKB
Date Completed: 11/19/14

BORING LOG | P12
--

Site Address: 9501 Myers Way South
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
15						SP			
				0.0		SM		**Damp, medium dense, silty fine SAND, brown, no hydrocarbon odor (40-60-0) (FILL).**	
			60			SM		**Damp, dense, silty fine SAND with trace gravel, tan, no hydrocarbon odor (20-75-5) (FILL).**	
20				0.0	P12-20				
								EOB: 20' bgs. Boring abandoned with hydrated bentonite chips.	
25									
30									

Drilling Co./Driller: ESN/Trever
Drilling Equipment: --
Sampler Type: --
Hammer Type/Weight: NA lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: -- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:
EOB: 20' bgs. No groundwater seepage encountered.

SoundEarth Strategies

Project: Myers Way Property
Project Number: 0987-010-01
Logged by: CGC
Date Started: 11/19/14
Surface Conditions: Gravel
Well Location N/S: --
Well Location E/W: --
Reviewed by: RKB
Date Completed: 11/19/14

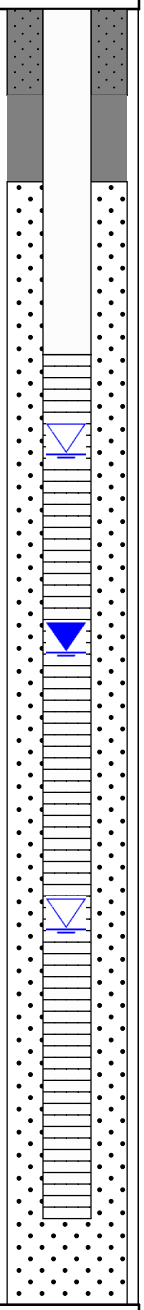
BORING LOG | P13 MW12

Site Address: 9501 Myers Way South
Seattle, Washington

Water Depth At Time of Drilling 5/10.5 feet bgs
Water Depth After Completion 7.3 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
0						GP		**Damp, medium dense, silty sandy GRAVEL, dark brown, no hydrocarbon odor (20-30-50) (FILL).**
				0.0		GP		**Damp, medium dense, silty sandy GRAVEL, brown, no hydrocarbon odor (20-25-55) (FILL).**
			75	0.0	P13-05	SM		**Damp, medium dense, silty fine SAND with gravel, brown, no hydrocarbon odor (30-65-5) (FILL).**
5								**Wet, medium dense, silty fine SAND with gravel, brown, no hydrocarbon odor (30-65-5) (FILL).**
						SM		**Wet, medium dense, silty SAND, gray, no hydrocarbon odor (15-85-0) (FILL).**
			80	0.0	P13-08	ML		**Damp, dense, sandy SILT with streaks of chalky material, light gray, no hydrocarbon odor (70-30-0) (FILL).**
				0.0				
10						SM		**Damp, medium dense, silty fine SAND with gravel, dark brown, no hydrocarbon odor (25-65-10) (FILL).**
				0.0		SM		**Wet to saturated, silty fine SAND with gravel, gray, no hydrocarbon odor (40-50-10) (FILL).**
			100					**Damp, medium dense, silty CLAY, contains tree roots, gray, no hydrocarbon odor (100-0-0) (FILL).**
						CL		**Damp, medium dense, silty CLAY with sand and gravel, contains tree roots, gray, no hydrocarbon odor (80-10-10) (FILL).**
15				0.0	P13-15			

Well Detail/ Water Depth



Drilling Co./Driller:	ESN/Trever		**Well/Auger Diameter:**	2 / 4.25 ID	inches
Drilling Equipment:	Combo Rig		**Well Screened Interval:**	4 to 14	feet bgs
Sampler Type:	Core Tube		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	NA	lbs	**Filter Pack Used:**	Sand	
Total Boring Depth:	15	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	14	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BIM 040		**Monument Type:**	Flushmount Traffic Grade	

Notes/Comments:
Overdrilled probe boring to 14' bgs with auger to set well MW12.

SoundEarth Strategies

Project: Myers Way Property
Project Number: 0987-010-01
Logged by: CGC
Date Started: 11/19/14
Surface Conditions: Gravel
Well Location N/S: --
Well Location E/W: --
Reviewed by: RKB
Date Completed: 11/19/14

BORING LOG | P14 MW13

Site Address: 9501 Myers Way South
Seattle, Washington

Water Depth At Time of Drilling 7/10.5 feet bgs
Water Depth After Completion 8.1 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
0						GP		**Damp, medium dense, silty-sandy GRAVEL, dark brown, no hydrocarbon odor (20-30-50) (FILL).**	
			70	0.0		GP		**Damp, medium dense, silty sandy GRAVEL, medium brown, no hydrocarbon odor (20-25-55) (FILL).**	
5				0.0	P14-05	SM		**Damp, medium dense, silty fine SAND with gravel, brown and gray, no hydrocarbon odor (30-55-15) (FILL).**	
			80		P14-08.5	SM		**Wet to saturated. silty SAND, brown, no hydrocarbon odor (15-85-0) (FILL).**	
				0.0		CL		**Damp, dense silty CLAY, gray, contains plastic bits and minor chalky material, no hydrocarbon odor (100-0-0) (FILL).**	
				0.0		ML		**Damp, dense, sandy SILT, orange-brown, no hydrocarbon odor (80-20-0) (FILL).**	
10				0.0	P14-10.5	SM		**Moist, medium dense, silty fine to medium SAND with gravel, brown, no hydrocarbon odor (20-70-10) (FILL).**	
			100			SP		**Saturated, medium dense, fine to coarse SAND with silt and trace gravel, tan, no hydrocarbon odor (10-85-5) (FILL?)**	
15				0.0					

Drilling Co./Driller: ESN/Trever
Drilling Equipment: Combo Rig
Sampler Type: Core Tube
Hammer Type/Weight: NA lbs
Total Boring Depth: 15 feet bgs
Total Well Depth: 15 feet bgs
State Well ID No.: BIM 04

Well/Auger Diameter: 2 / 4.25 ID inches
Well Screened Interval: 5 to 15 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Sand
Surface Seal: BIM 041
Annular Seal: Bentonite
Monument Type: Flushmount Traffic Grade

Notes/Comments:
EOB: 15' bgs. Overdrilled probe boring with auger to set well MW13.

ATTACHMENT B
LABORATORY ANALYTICAL REPORTS

Friedman & Bruya, Inc. #411304

FRIEDMAN & BRUYA, INC.

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December 3, 2014

Audrey Hackett, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Hackett:

Included are the results from the testing of material submitted on November 18, 2014 from the SOU_0987-010-01_20141118, F&BI 411304 project. There are 22 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
SOU1203R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on November 18, 2014 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0987-010-01_20141118, F&BI 411304 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
411304-01	P01-05
411304-02	P01-10
411304-03	P01-15
411304-04	P02-05
411304-05	P02-07
411304-06	P02-14
411304-07	P02-20
411304-08	P03-04.5
411304-09	P03-09
411304-10	P03-15
411304-11	P04-03.5
411304-12	P04-08
411304-13	P04-15
411304-14	P05-05
411304-15	P05-09
411304-16	P05-15
411304-17	P06-05
411304-18	P06-08.5
411304-19	P06-15

All quality control requirements were acceptable.

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	P01-10	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/25/14	Lab ID:	411304-02 1/5
Date Analyzed:	11/25/14	Data File:	112519.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	96	50	150
Benzo(a)anthracene-d12	110	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	0.010
Anthracene	<0.01
Fluoranthene	0.017
Pyrene	0.021
Benz(a)anthracene	0.011
Chrysene	0.017
Benzo(a)pyrene	0.015
Benzo(b)fluoranthene	0.016
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	0.010
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	0.013

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	P02-07	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/24/14	Lab ID:	411304-05 1/5
Date Analyzed:	11/24/14	Data File:	112419.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	76	50	150
Benzo(a)anthracene-d12	87	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.017
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	0.031
Anthracene	<0.01
Fluoranthene	0.036
Pyrene	0.043
Benz(a)anthracene	0.013
Chrysene	0.019
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	0.016
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	P03-09	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/24/14	Lab ID:	411304-09 1/5
Date Analyzed:	11/24/14	Data File:	112412.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	76	50	150
Benzo(a)anthracene-d12	88	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.017
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	0.038
Anthracene	<0.01
Fluoranthene	0.054
Pyrene	0.056
Benz(a)anthracene	0.021
Chrysene	0.023
Benzo(a)pyrene	0.015
Benzo(b)fluoranthene	0.027
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	0.010
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	0.011

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	P04-15	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/24/14	Lab ID:	411304-13 1/5
Date Analyzed:	11/24/14	Data File:	112413.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	74	50	150
Benzo(a)anthracene-d12	88	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.016
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	0.035
Anthracene	<0.01
Fluoranthene	0.068
Pyrene	0.087
Benz(a)anthracene	0.046
Chrysene	0.053
Benzo(a)pyrene	0.057
Benzo(b)fluoranthene	0.068
Benzo(k)fluoranthene	0.019
Indeno(1,2,3-cd)pyrene	0.044
Dibenz(a,h)anthracene	0.011
Benzo(g,h,i)perylene	0.052

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	P06-08.5	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/24/14	Lab ID:	411304-18 1/5
Date Analyzed:	11/25/14	Data File:	112509.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	78	50	150
Benzo(a)anthracene-d12	100	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.015
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	0.027
Anthracene	<0.01
Fluoranthene	0.061
Pyrene	0.068
Benz(a)anthracene	0.028
Chrysene	0.042
Benzo(a)pyrene	0.025
Benzo(b)fluoranthene	0.039
Benzo(k)fluoranthene	0.016
Indeno(1,2,3-cd)pyrene	0.018
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	0.023

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/24/14	Lab ID:	04-2373 mb 1/5
Date Analyzed:	11/24/14	Data File:	112404.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	69	50	150
Benzo(a)anthracene-d12	81	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/25/14	Lab ID:	04-2373 mb2
Date Analyzed:	11/25/14	Data File:	112518.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	97	50	150
Benzo(a)anthracene-d12	118	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

Analysis For Total Metals By EPA Method 200.8

Client ID:	P01-05	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/21/14	Lab ID:	411304-01
Date Analyzed:	11/24/14	Data File:	411304-01.021
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	92	60	125
Holmium	98	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	12.7
Arsenic	3.82
Cadmium	<1
Lead	27.4
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P01-10	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/21/14	Lab ID:	411304-02
Date Analyzed:	11/24/14	Data File:	411304-02.022
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	90	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	7.54
Arsenic	6.76
Cadmium	<1
Lead	112
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P02-05	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/21/14	Lab ID:	411304-04
Date Analyzed:	11/24/14	Data File:	411304-04.023
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	105	60	125
Indium	90	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	26.2
Arsenic	9.12
Cadmium	<1
Lead	14.0
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P02-07	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/21/14	Lab ID:	411304-05
Date Analyzed:	11/24/14	Data File:	411304-05.024
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	94	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	18.4
Arsenic	55.2
Cadmium	1.23
Lead	245
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P03-04.5	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/21/14	Lab ID:	411304-08
Date Analyzed:	11/24/14	Data File:	411304-08.025
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	90	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	11.5
Arsenic	1.74
Cadmium	<1
Lead	5.45
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P03-09	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/21/14	Lab ID:	411304-09
Date Analyzed:	11/24/14	Data File:	411304-09.026
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	96	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	18.7
Arsenic	58.7
Cadmium	1.34
Lead	351
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P04-08	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/21/14	Lab ID:	411304-12
Date Analyzed:	11/24/14	Data File:	411304-12.027
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	93	60	125
Holmium	100	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	16.9
Arsenic	6.49
Cadmium	<1
Lead	29.9
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P05-09	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/21/14	Lab ID:	411304-15
Date Analyzed:	11/24/14	Data File:	411304-15.028
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	96	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	15.9
Arsenic	71.7
Cadmium	1.33
Lead	338
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P06-08.5	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/21/14	Lab ID:	411304-18
Date Analyzed:	11/24/14	Data File:	411304-18.030
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	97	60	125
Holmium	93	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	15.2
Arsenic	109
Cadmium	1.63
Lead	524
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P06-15	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/21/14	Lab ID:	411304-19
Date Analyzed:	11/24/14	Data File:	411304-19.031
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	92	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	8.08
Arsenic	3.97
Cadmium	<1
Lead	15.4
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	11/21/14	Lab ID:	I4-748 mb
Date Analyzed:	11/24/14	Data File:	I4-748 mb.009
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	97	60	125
Holmium	99	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	<1
Arsenic	<1
Cadmium	<1
Lead	<1
Mercury	<1

Date of Report: 12/03/14
Date Received: 11/18/14
Project: SOU_0987-010-01_20141118, F&BI 411304

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 411388-01 (Matrix Spike) 1/5

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	0.034	101	98	44-129	3
Acenaphthylene	mg/kg (ppm)	0.17	<0.01	86	84	52-121	2
Acenaphthene	mg/kg (ppm)	0.17	<0.01	91	91	51-123	0
Fluorene	mg/kg (ppm)	0.17	0.034	96	91	37-137	5
Phenanthrene	mg/kg (ppm)	0.17	0.043	91 b	85 b	45-124	7 b
Anthracene	mg/kg (ppm)	0.17	<0.01	88	87	32-124	1
Fluoranthene	mg/kg (ppm)	0.17	<0.01	87	85	50-125	2
Pyrene	mg/kg (ppm)	0.17	0.014	98	92	41-135	6
Benz(a)anthracene	mg/kg (ppm)	0.17	<0.01	90	88	23-144	2
Chrysene	mg/kg (ppm)	0.17	<0.01	88	86	45-122	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	<0.01	97	94	31-144	3
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.01	106	102	45-130	4
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.01	94	93	39-128	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.01	94	93	28-146	1
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.01	94	93	46-129	1
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.01	92	92	37-133	0

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.17	84	58-121
Acenaphthylene	mg/kg (ppm)	0.17	85	54-121
Acenaphthene	mg/kg (ppm)	0.17	86	54-123
Fluorene	mg/kg (ppm)	0.17	88	56-127
Phenanthrene	mg/kg (ppm)	0.17	87	55-122
Anthracene	mg/kg (ppm)	0.17	81	50-120
Fluoranthene	mg/kg (ppm)	0.17	86	54-129
Pyrene	mg/kg (ppm)	0.17	91	53-127
Benz(a)anthracene	mg/kg (ppm)	0.17	88	51-115
Chrysene	mg/kg (ppm)	0.17	90	55-129
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	95	56-123
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	104	54-131
Benzo(a)pyrene	mg/kg (ppm)	0.17	87	51-118
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	96	49-148
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	97	50-141
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	96	52-131

Date of Report: 12/03/14
Date Received: 11/18/14
Project: SOU_0987-010-01_20141118, F&BI 411304

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 411378-27 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/kg (ppm)	50	5.16	100	99	57-128	1
Arsenic	mg/kg (ppm)	10	<1	94	96	70-118	2
Cadmium	mg/kg (ppm)	10	<1	105	107	83-116	2
Lead	mg/kg (ppm)	50	1.24	107	108	59-148	1
Mercury	mg/kg (ppm	10	<1	101	102	50-150	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	mg/kg (ppm)	50	94	78-121
Arsenic	mg/kg (ppm)	10	91	83-113
Cadmium	mg/kg (ppm)	10	97	54-114
Lead	mg/kg (ppm)	50	97	80-120
Mercury	mg/kg (ppm)	10	89	70-130

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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

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

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

(411304

SAMPLE CH(OF CUSTODY ME 11-18-14

Page # 1 of 3

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E. Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.: Myers Way Property

PO #: 0987-010-01

REMARKS: Hold

TURNAROUND TIME
Standard (2 Weeks)
RUSH Need By 12/1
Rush charges authorized by:

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	MTCA 5 Metals 200.8/1631E	PAHs 8270		Notes
P01-05	P01	05	01	11/17/14	1015	Soil	2						X			
P01-10		10	02		1025		2						X	X		
P01-15		15	03		1030		2									
P02-05	P02	05	04		1135		2						X			
P02-07		07	05		1145		2						X	X		
P02-14		14	06		1155		2									
P02-20		20	07		1200		2									
~~FB~~																
		COC 11/17/14														
																Samples received at 4 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chris Cass	SoundEarth Strategies, Inc.	11/18/14	
Received by:	E. McKay	Post Exp	11/18/14	1320
Relinquished by:				
Received by:	Nhan Pham	FEBI	11/18/14	1320

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

(411304

SAMPLE CHA OF CUSTODY ME 11-18-14

Page # 2 of 3 Doy

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E. Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. Myers Way Property

PO # 0987-010-01

REMARKS Hold

TURNAROUND TIME
Standard (2 Weeks)
RUSH Need by 12/1
Rush charges authorized by:

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	MTCA 5 Metals 200.8/1631E	PAHs 8270		Notes
PO3-04.5	PO3	04.5	08A	11/17/14	1205	Soil	2						X			
PO3-09		09	09		1210		2						X	X		
PO3-15		15	10		1220		2									
PO4-03.5	PO4	03.5	11		1230		2									
PO4-08		08	12		1240		2						X			
PO4-15		15	13		1250		2							X		
PO5-05	PO5	05	14		1300		2									
PO5-09		09	15		1310		2						X			
PO5-15		15	16		1320		2									
PO6-05	PO6	05	17		1335		2									received at 4 °C

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

FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chris Cass	SoundEarth Strategies, Inc.	11/18/14	
Received by: F. McKay	F. McKay	FEBI	11/18/14	1235
Relinquished by:				
Received by: Nhan Phan	Nhan Phan	FEBI	11/18/14	1320

(411304

SAMPLE CHA OF CUSTODY ME 11-18-14

DOY

Page # 3 (of 3

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E. Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.: Myers Way Property

PO #: 0987-010-01

REMARKS: Hold

TURNAROUND TIME
Standard (2 Weeks)
⊗RUSH Need By 12/1
Rush charges authorized by:

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	MTCA 5 METALS 200.8/6020	PAHS 8270		Notes
PCC-0.85	PCC	0.85	18	11/17/14	(1345)	Soil	2						X	X		
PCC-1.5	↓	1.5	19	↓	1355	↓	2						X			

Samples received at 4 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chris Cass	SoundEarth Strategies, Inc.	11/18/14	
Received by:	E. Mickey	West Exp	11/18/14	1330
Relinquished by:				
Received by:	Nhan Phan	FedEx	11/18/14	1320

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

December 30, 2014

Audrey Hackett, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Hackett:

Included are the additional results from the testing of material submitted on November 18, 2014 from the SOU_0987-010-01_20141118, F&BI 411304 project. There are 9 pages included in this report.

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
SOU1230R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on November 18, 2014 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0987-010-01_20141118, F&BI 411304 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
411304-01	P01-05
411304-02	P01-10
411304-03	P01-15
411304-04	P02-05
411304-05	P02-07
411304-06	P02-14
411304-07	P02-20
411304-08	P03-04.5
411304-09	P03-09
411304-10	P03-15
411304-11	P04-03.5
411304-12	P04-08
411304-13	P04-15
411304-14	P05-05
411304-15	P05-09
411304-16	P05-15
411304-17	P06-05
411304-18	P06-08.5
411304-19	P06-15

All quality control requirements were acceptable.

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID:	P01-10	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	12/19/14	Lab ID:	411304-02
Date Analyzed:	12/19/14	Data File:	411304-02.015
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/L (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	98	60	125

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Lead	<1	5.0

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID:	P02-07	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	12/19/14	Lab ID:	411304-05
Date Analyzed:	12/19/14	Data File:	411304-05.019
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/L (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	99	60	125

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Lead	<1	5.0

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID:	P03-09	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	12/19/14	Lab ID:	411304-09
Date Analyzed:	12/19/14	Data File:	411304-09.020
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/L (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	99	60	125

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Lead	<1	5.0

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID:	P05-09	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	12/19/14	Lab ID:	411304-15
Date Analyzed:	12/19/14	Data File:	411304-15.021
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/L (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	97	60	125

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Lead	<1	5.0

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID:	P06-08.5	Client:	SoundEarth Strategies
Date Received:	11/18/14	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	12/19/14	Lab ID:	411304-18
Date Analyzed:	12/19/14	Data File:	411304-18.022
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/L (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	96	60	125

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0987-010-01_20141118, F&BI 411304
Date Extracted:	12/19/14	Lab ID:	I4-812 mb
Date Analyzed:	12/19/14	Data File:	I4-812 mb.013
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/L (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	97	60	125
Holmium	98	60	125

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

Date of Report: 12/30/14
Date Received: 11/18/14
Project: SOU_0987-010-01_20141118, F&BI 411304

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TCLP METALS USING EPA METHOD 200.8 AND 40 CFR PART 261

Laboratory Code: 411304-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	100	93	50-150	7
Lead	mg/L (ppm)	1.0	<1	106	97	50-150	9

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	100	70-130
Lead	mg/L (ppm)	1.0	106	70-130

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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

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

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

(411304

SAMPLE CHA OF CUSTODY ME 11-18-14

(1 3 Doc

Page # 1 of

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E. Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.: Myers Way Property

PO #: 0987-010-01

REMARKS: Hold

TURNAROUND TIME
Standard (2 Weeks)
RUSH Need By 12/1
Rush charges authorized by:

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	MTCA 5 Metals 200.8/6020	PAHs 8270	TCLP Lead	Notes
P01-05	P01	05	01	11/17/14	1015	Soil	2						X			0-perAH
P01-10		10	02		1025		2						X	X	0	12/17/14 mk
P01-15		15	03		1030		2									
P02-05	P02	05	04		1135		2						X			
P02-07		07	05		1145		2						X	X	0	
P02-14		14	06		1155		2									
P02-20		20	07		1200		2									
Field																

Sample received at 4 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chris Cass	SoundEarth Strategies, Inc.	11/18/14	
Received by:	E. McKay	FEDEX	11/18/14	1320
Relinquished by:				
Received by:	Nham Phan	FEBI	11/18/14	1320

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

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(411304

SAMPLE CHA( )F CUSTODY ME 11-18-14

Page # 2 of 3 Dog

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E. Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. Myers Way Property

PO # 0967-010-01

REMARKS Hold

TURNAROUND TIME
Standard (2 Weeks)
RUSH Need By 12/1
Rush charges authorized by:

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA 5 Metals 6010B/7471B	PAHs 8270	TCLP Lead	Notes
PO3-C4.5	PO3	C4.5	08	11/17/14	1205	Soil	2						X			
PO3-C9		C9	09		1210		2						X	X	O	
PO3-15		15	10		1220		2									
PO4-C3.5	PO4	C3.5	11		1230		2									
PO4-C8		C8	12		1240		2						X			
PO4-15		15	13		1250		2							X		
PO5-C5	PO5	C5	14		1300		2									
PO5-C9		C9	15		1310		2						X		O	
PO5-15		15	16		1320		2									
PO6-C5	PO6	C5	17		1335		2									

Received at 4 °C

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

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Chris Foss	SoundEarth Strategies, Inc.	11/18/14	
Received by:		F. McKay	FEBT	11/18/14	1235
Relinquished by:					
Received by:		Nhan Phan	FEBT	11/18/14	1320

(411304

SAMPLE CHA(OF CUSTODY ME 11-18-14

DOY

Page # 3 of 3

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) [signature]

PROJECT NAME/NO.	PO #
Myers Way Property	0987-010-01

REMARKS (Hold)

TURNAROUND TIME
Standard (2 Weeks)
(X) RUSH Need By 12/1
Rush charges authorized by: [signature]

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	MTCA 5 METALS 200.8/1631E	PAHS 8270	TCLP Lead, Arsenic	Notes
PC6-0.85	PC6	0.85	18	11/17/14	(1345)	Soil	2						X	X	O	
PC6-15	↓	15	19	↓	1355	↓	2						X			

[diagonal line] 11/17/14

Samples received at 4 °C

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

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	[signature]	Chris Cass	SoundEarth Strategies, Inc.	11/18/14	
Received by:	[signature]	E Mulry	Most Exp	11/18/14	1330
Relinquished by:					
Received by:	[signature]	Nhan Phan	FeBI	11/18/14	1320

Friedman & Bruya, Inc. #411326

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 26, 2014

Audrey Hackett, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Hackett:

Included are the results from the testing of material submitted on November 19, 2014 from the SOU_0987-010-01_20141119, F&BI 411326 project. There are 12 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
SOU1126R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on November 19, 2014 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0987-010-01_20141119, F&BI 411326 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
411326 -01	PGG-3-20141118
411326 -02	PGG-2-20141118

The samples were filtered at Friedman and Bruya on November 19, 2014 at 10:40 AM. The data were flagged accordingly.

All quality control requirements were acceptable.

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	PGG-3-20141118 f	Client:	SoundEarth Strategies
Date Received:	11/19/14	Project:	SOU_0987-010-01_20141119, F&BI 411326
Date Extracted:	11/20/14	Lab ID:	411326-01
Date Analyzed:	11/20/14	Data File:	411326-01.060
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	97	60	125
Holmium	100	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Arsenic	<1
Cadmium	<1
Lead	<1

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	PGG-2-20141118 f	Client:	SoundEarth Strategies
Date Received:	11/19/14	Project:	SOU_0987-010-01_20141119, F&BI 411326
Date Extracted:	11/20/14	Lab ID:	411326-02
Date Analyzed:	11/20/14	Data File:	411326-02.063
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	96	60	125
Holmium	99	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Arsenic	<1
Cadmium	<1
Lead	<1

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0987-010-01_20141119, F&BI 411326
Date Extracted:	11/20/14	Lab ID:	I4-738 mb
Date Analyzed:	11/20/14	Data File:	I4-738 mb.058
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	110	60	125
Indium	106	60	125
Holmium	105	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Arsenic	<1
Cadmium	<1
Lead	<1

Date of Report: 11/26/14
Date Received: 11/19/14
Project: SOU_0987-010-01_20141119, F&BI 411326
Date Extracted: 11/20/14
Date Analyzed: 11/21/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
PGG-3-20141118 f 411326-01	<0.1
PGG-2-20141118 f 411326-02	<0.1
Method Blank	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	PGG-3-20141118	Client:	SoundEarth Strategies
Date Received:	11/19/14	Project:	SOU_0987-010-01_20141119
Date Extracted:	11/19/14	Lab ID:	411326-01 1/2
Date Analyzed:	11/20/14	Data File:	112007.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	97	50	150
Benzo(a)anthracene-d12	109	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	PGG-2-20141118	Client:	SoundEarth Strategies
Date Received:	11/19/14	Project:	SOU_0987-010-01_20141119
Date Extracted:	11/19/14	Lab ID:	411326-02 1/2
Date Analyzed:	11/20/14	Data File:	112008.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	90	50	150
Benzo(a)anthracene-d12	103	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0987-010-01_20141119
Date Extracted:	11/19/14	Lab ID:	04-2349 mb2 1/2
Date Analyzed:	11/20/14	Data File:	112006.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	98	50	150
Benzo(a)anthracene-d12	113	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Date of Report: 11/26/14
Date Received: 11/19/14
Project: SOU_0987-010-01_20141119, F&BI 411326

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: 411326-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	ug/L (ppb)	20	<1	103	101	64-132	2
Arsenic	ug/L (ppb)	10	<1	104	101	60-150	3
Cadmium	ug/L (ppb)	5	<1	101	99	83-116	2
Lead	ug/L (ppb)	10	<1	105	104	79-121	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	100	80-119
Arsenic	ug/L (ppb)	10	95	80-111
Cadmium	ug/L (ppb)	5	96	83-113
Lead	ug/L (ppb)	10	105	83-115

Date of Report: 11/26/14
Date Received: 11/19/14
Project: SOU_0987-010-01_20141119, F&BI 411326

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: 411326-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.5	<0.1	94	95	71-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.5	92	88-113

Date of Report: 11/26/14
Date Received: 11/19/14
Project: SOU_0987-010-01_20141119, F&BI 411326

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	91	92	67-116	1
Acenaphthylene	ug/L (ppb)	1	94	96	65-119	2
Acenaphthene	ug/L (ppb)	1	91	93	66-118	2
Fluorene	ug/L (ppb)	1	95	97	64-125	2
Phenanthrene	ug/L (ppb)	1	93	96	67-120	3
Anthracene	ug/L (ppb)	1	94	95	65-122	1
Fluoranthene	ug/L (ppb)	1	94	96	65-127	2
Pyrene	ug/L (ppb)	1	96	96	62-130	0
Benz(a)anthracene	ug/L (ppb)	1	98	97	60-118	1
Chrysene	ug/L (ppb)	1	95	98	66-125	3
Benzo(b)fluoranthene	ug/L (ppb)	1	107	106	55-135	1
Benzo(k)fluoranthene	ug/L (ppb)	1	105	108	62-125	3
Benzo(a)pyrene	ug/L (ppb)	1	107	108	58-127	1
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	105	107	36-142	2
Dibenz(a,h)anthracene	ug/L (ppb)	1	87	95	37-133	9
Benzo(g,h,i)perylene	ug/L (ppb)	1	91	98	34-135	7

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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

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

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

411326

SAMPLE CHAIN OF CUSTODY

ME 11-19-14

Page # 1 of 1

D04/AE5

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)	[illegible signature]
PROJECT NAME/NO. Myers Way Property	PO # 0987-010-01
REMARKS	* [illegible] MTCA 5 analysis

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

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	Dissolved MTCA 5 metals *	PAHs 8270		Notes
PGG-3-20141118	PGG-3	-	01 A-B	11/18/14	1048	H_2O	2						X	X		* Lab Filter prior to MTCA 5 analysis
PGG-1?-20141118	PGG-1	-	02 ↓	11/18/14	1204	H_2O	2						X	X		* ↓

CC 11/19/14

Samples received at 4 °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:	[signature]	Chris Cass	SoundEarth Strategies, Inc.	11/19/14	
Received by:	[signature]	Deborah Sams	Fedex SOC	11/19	9:30
Relinquished by:					
Received by:	[signature]	Nhan Phan	FEBI	11/19/14	1025

MS\COC\COC.DOC

Friedman & Bruya, Inc. #411327

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 26, 2014

Audrey Hackett, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Hackett:

Included are the results from the testing of material submitted on November 19, 2014 from the SOU_0987-010-01_20141119, F&BI 411327 project. There are 12 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
SOU1126R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on November 19, 2014 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0987-010-01_20141119, F&BI 411327 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
411327-01	P07-04
411327-02	P07-08.5
411327-03	P07-15

All quality control requirements were acceptable.

Date of Report: 11/26/14
Date Received: 11/19/14
Project: SOU_0987-010-01_20141119, F&BI 411327
Date Extracted: 11/21/14
Date Analyzed: 11/21/14

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 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)
P07-08.5 411327-02	<0.02	<0.02	<0.02	<0.06	<2	85
Method Blank 04-2339 MB	<0.02	<0.02	<0.02	<0.06	<2	87

Date of Report: 11/26/14
Date Received: 11/19/14
Project: SOU_0987-010-01_20141119, F&BI 411327
Date Extracted: 11/21/14
Date Analyzed: 11/21/14

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

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

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 56-165)
P07-08.5 411327-02	<50	<250	83
Method Blank 04-2367 MB	<50	<250	86

Analysis For Total Metals By EPA Method 200.8

Client ID:	P07-08.5	Client:	SoundEarth Strategies
Date Received:	11/19/14	Project:	SOU_0987-010-01_20141119, F&BI 411327
Date Extracted:	11/21/14	Lab ID:	411327-02
Date Analyzed:	11/24/14	Data File:	411327-02.032
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	91	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	24.8
Arsenic	4.90
Cadmium	<1
Lead	32.1
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0987-010-01_20141119, F&BI 411327
Date Extracted:	11/21/14	Lab ID:	I4-748 mb
Date Analyzed:	11/24/14	Data File:	I4-748 mb.009
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	97	60	125
Holmium	99	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	<1
Arsenic	<1
Cadmium	<1
Lead	<1
Mercury	<1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	P07-08.5	Client:	SoundEarth Strategies
Date Received:	11/19/14	Project:	SOU_0987-010-01_20141119, F&BI 411327
Date Extracted:	11/24/14	Lab ID:	411327-02 1/5
Date Analyzed:	11/24/14	Data File:	112409.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	74	50	150
Benzo(a)anthracene-d12	84	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	0.019
Anthracene	<0.01
Fluoranthene	0.012
Pyrene	0.014
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0987-010-01_20141119, F&BI 411327
Date Extracted:	11/24/14	Lab ID:	04-2373 mb 1/5
Date Analyzed:	11/24/14	Data File:	112404.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	69	50	150
Benzo(a)anthracene-d12	81	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

Date of Report: 11/26/14
Date Received: 11/19/14
Project: SOU_0987-010-01_20141119, F&BI 411327

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: 411234-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	91	69-120
Toluene	mg/kg (ppm)	0.5	95	70-117
Ethylbenzene	mg/kg (ppm)	0.5	94	65-123
Xylenes	mg/kg (ppm)	1.5	93	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

Date of Report: 11/26/14
Date Received: 11/19/14
Project: SOU_0987-010-01_20141119, F&BI 411327

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 411378-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	12,000	93 b	47 b	63-146	66 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	91	79-144

Date of Report: 11/26/14
Date Received: 11/19/14
Project: SOU_0987-010-01_20141119, F&BI 411327

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 411378-27 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/kg (ppm)	50	5.16	100	99	57-128	1
Arsenic	mg/kg (ppm)	10	<1	94	96	70-118	2
Cadmium	mg/kg (ppm)	10	<1	105	107	83-116	2
Lead	mg/kg (ppm)	50	1.24	107	108	59-148	1
Mercury	mg/kg (ppm	10	<1	101	102	50-150	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	mg/kg (ppm)	50	94	78-121
Arsenic	mg/kg (ppm)	10	91	83-113
Cadmium	mg/kg (ppm)	10	97	54-114
Lead	mg/kg (ppm)	50	97	80-120
Mercury	mg/kg (ppm)	10	89	70-130

Date of Report: 11/26/14
Date Received: 11/19/14
Project: SOU_0987-010-01_20141119, F&BI 411327

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 411388-01 (Matrix Spike) 1/5

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	0.034	101	98	44-129	3
Acenaphthylene	mg/kg (ppm)	0.17	<0.01	86	84	52-121	2
Acenaphthene	mg/kg (ppm)	0.17	<0.01	91	91	51-123	0
Fluorene	mg/kg (ppm)	0.17	0.034	96	91	37-137	5
Phenanthrene	mg/kg (ppm)	0.17	0.043	91 b	85 b	45-124	7 b
Anthracene	mg/kg (ppm)	0.17	<0.01	88	87	32-124	1
Fluoranthene	mg/kg (ppm)	0.17	<0.01	87	85	50-125	2
Pyrene	mg/kg (ppm)	0.17	0.014	98	92	41-135	6
Benz(a)anthracene	mg/kg (ppm)	0.17	<0.01	90	88	23-144	2
Chrysene	mg/kg (ppm)	0.17	<0.01	88	86	45-122	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	<0.01	97	94	31-144	3
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.01	106	102	45-130	4
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.01	94	93	39-128	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.01	94	93	28-146	1
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.01	94	93	46-129	1
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.01	92	92	37-133	0

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.17	84	58-121
Acenaphthylene	mg/kg (ppm)	0.17	85	54-121
Acenaphthene	mg/kg (ppm)	0.17	86	54-123
Fluorene	mg/kg (ppm)	0.17	88	56-127
Phenanthrene	mg/kg (ppm)	0.17	87	55-122
Anthracene	mg/kg (ppm)	0.17	81	50-120
Fluoranthene	mg/kg (ppm)	0.17	86	54-129
Pyrene	mg/kg (ppm)	0.17	91	53-127
Benz(a)anthracene	mg/kg (ppm)	0.17	88	51-115
Chrysene	mg/kg (ppm)	0.17	90	55-129
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	95	56-123
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	104	54-131
Benzo(a)pyrene	mg/kg (ppm)	0.17	87	51-118
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	96	49-148
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	97	50-141
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	96	52-131

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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

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

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

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

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

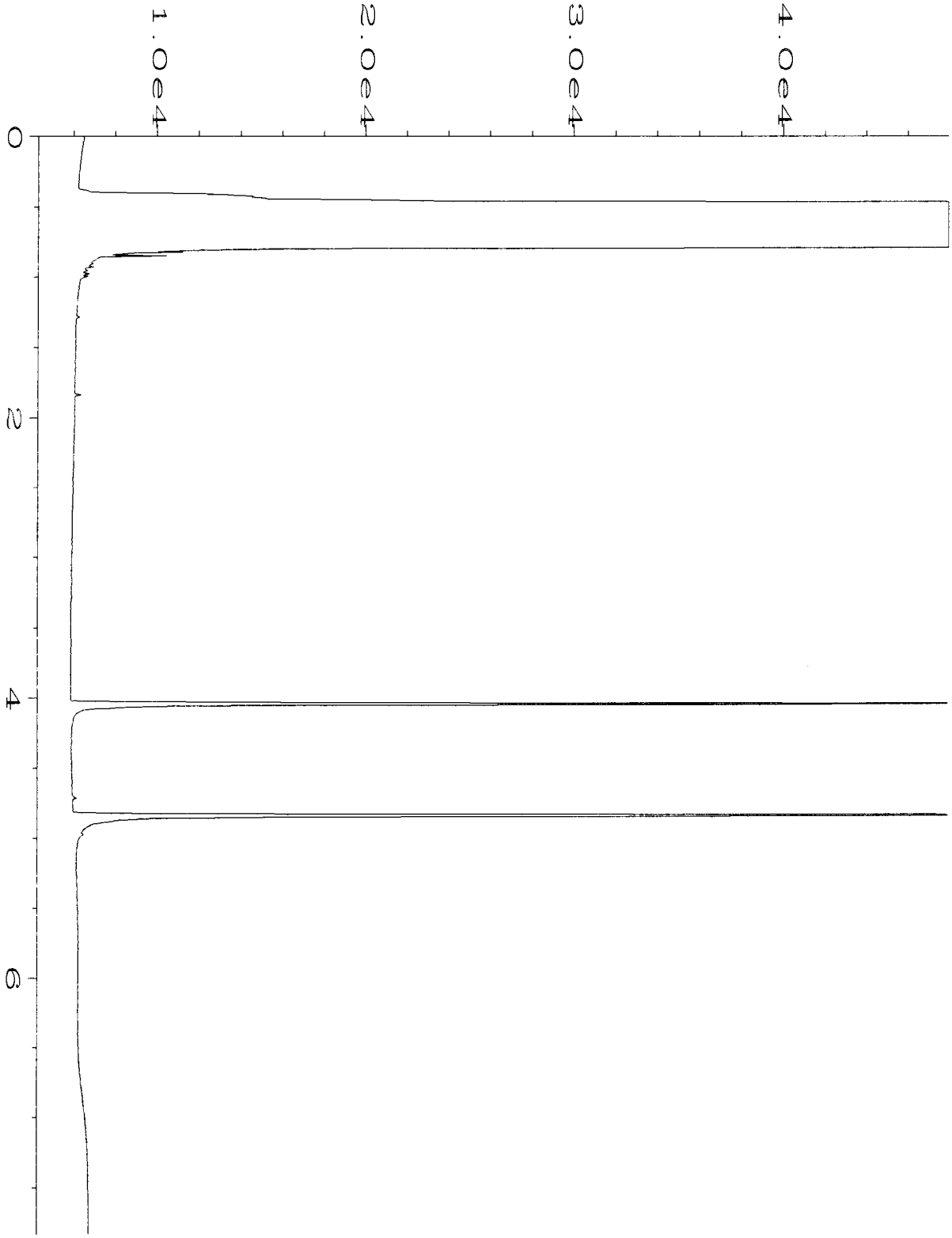
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

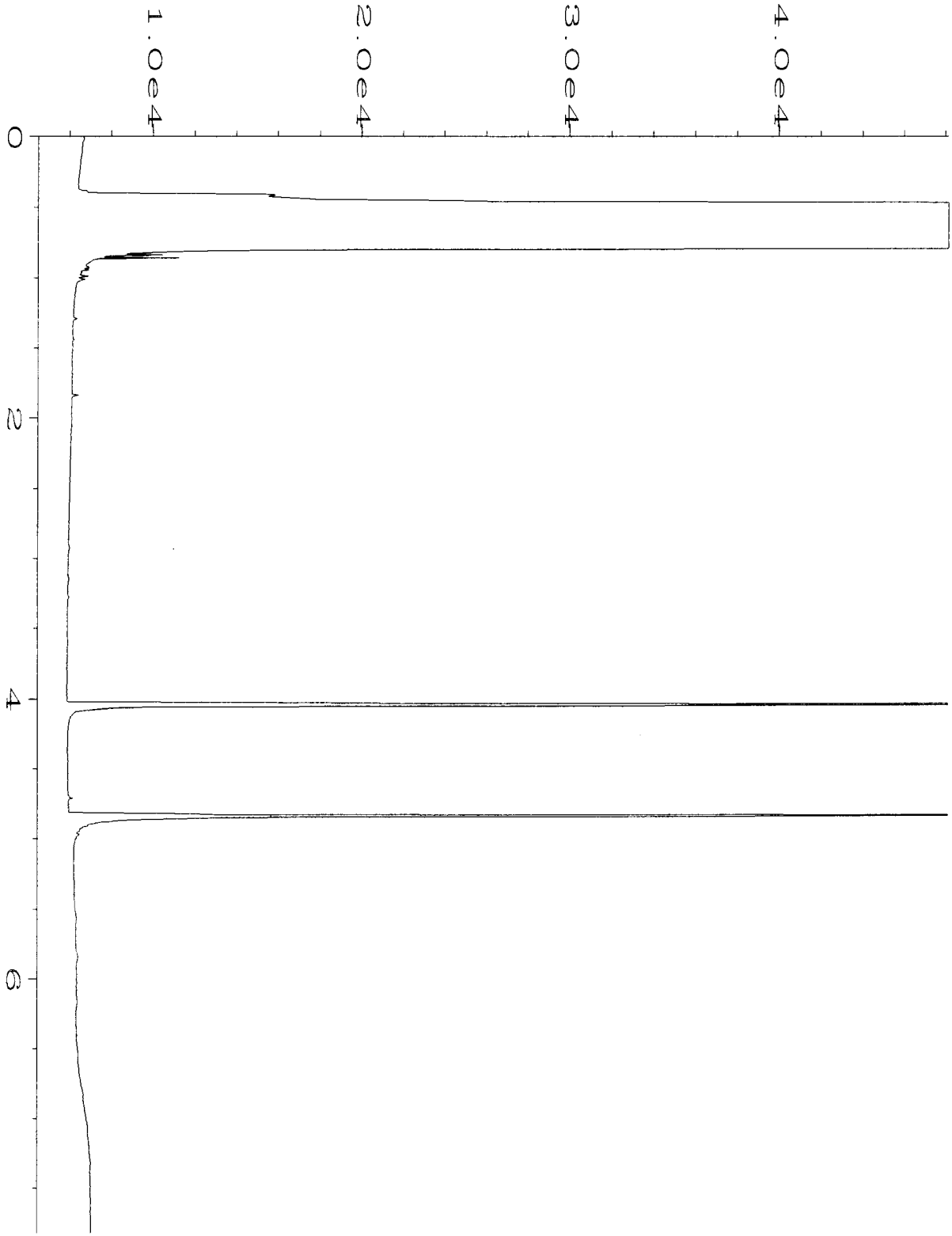
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

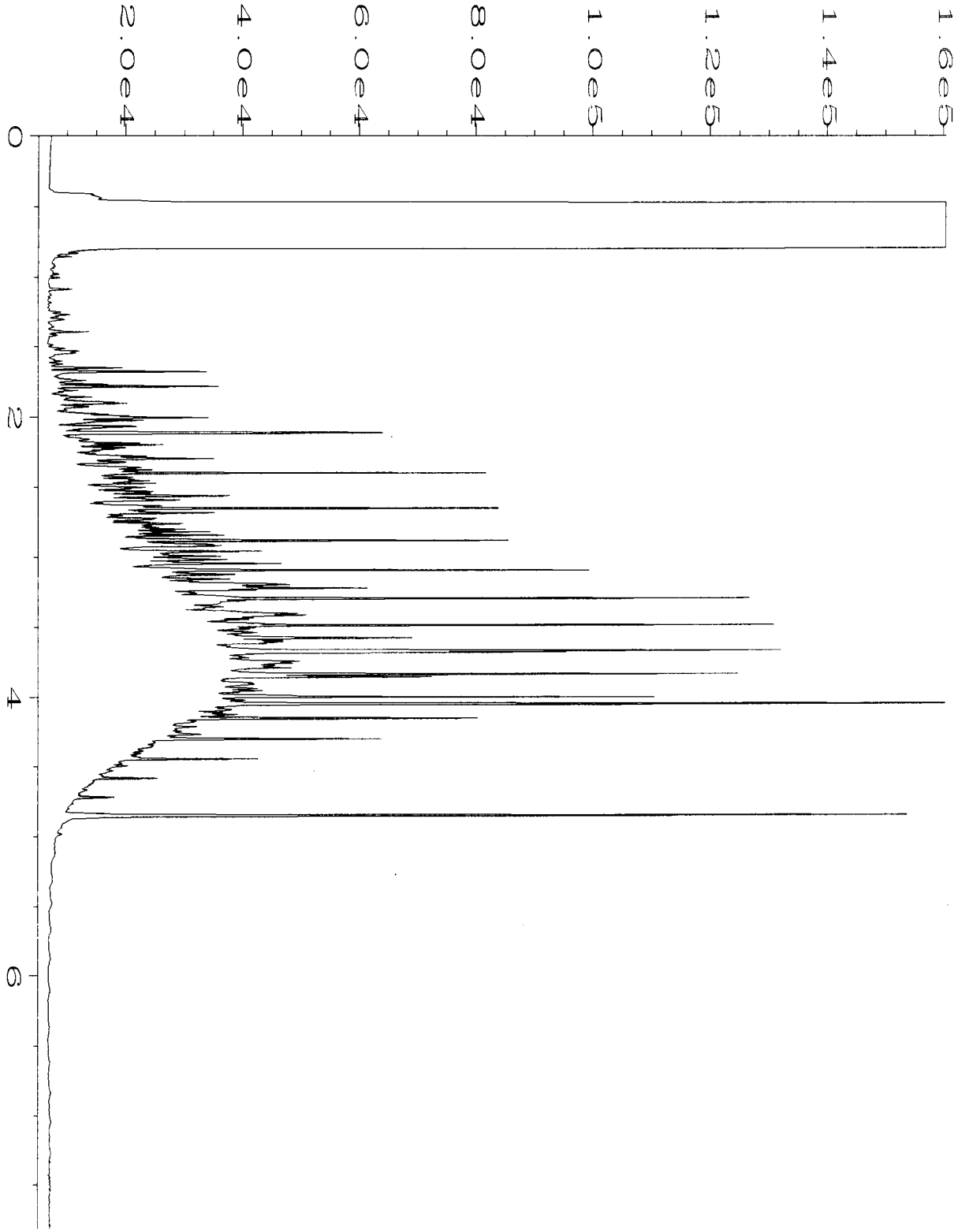
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



Data File Name	: C:\HPCHEM\1\DATA\11-21-14\058F0901.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 58
Sample Name	: 411327-02	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 9
Acquired on	: 21 Nov 14 09:34 PM	Instrument Method	: DX.MTH
Report Created on	: 24 Nov 14 11:15 AM	Analysis Method	: END.MTH



Data File Name	: C:\HPCHEM\1\DATA\11-21-14\050F0901.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 50
Sample Name	: 04-2367 mb	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 9
Acquired on	: 21 Nov 14 07:51 PM	Instrument Method	: DX.MTH
Report Created on	: 24 Nov 14 11:15 AM	Analysis Method	: END.MTH



Data File Name	: C:\HPCHEM\1\DATA\11-21-14\003F0201.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 3
Sample Name	: 500 Dx 43-199B	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 2
Acquired on	: 21 Nov 14 09:12 AM	Instrument Method	: DX.MTH
Report Created on	: 24 Nov 14 11:15 AM	Analysis Method	: END.MTH

(411327

SAMPLE CHA( )OF CUSTODY

MG 11-19-14

Page # 1 (of 1 VS/DO

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)	
PROJECT NAME/NO. Myers Way Property	PO # 0987-010-01
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	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	MTCA 5 METALS	PAHs		Notes
P07-04	P07	04	01 A-B	11/18/14	1500	Soil ~~H2O~~ (NP 11/19)	2									X-per AF
P07-08.5	P07	08.5	02 A-F	11/18/14	1510	Soil ~~H2O~~	6	X	X	X			X	X		11/20/14
P07-15	P07	15	03 A-B	11/18/14	1515	Soil ~~H2O~~	2									MG

Samples received at 4 °C

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

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	[signature]	Chris Cass	SoundEarth Strategies, Inc.	11/19/14	
Received by:	[signature]	Deborah Sams	Fedex SDC	11/19	9:30
Relinquished by:					
Received by:	[signature]	Nhan Phan	FeBI	11/19/14	1030

Friedman & Bruya, Inc. #411354

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 26, 2014

Audrey Hackett, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Hackett:

Included are the results from the testing of material submitted on November 20, 2014 from the SOU_0987-010_20141120, F&BI 411354 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
SOU1126R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on November 20, 2014 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0987-010_20141120, F&BI 411354 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
411354 -01	PGG1-20141119

The samples were filtered at Friedman and Bruya on November 20, 2014 at 11:30 AM. The data were flagged accordingly.

All quality control requirements were acceptable.

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	PGG1-20141119 f	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010_20141120, F&BI 411354
Date Extracted:	11/20/14	Lab ID:	411354-01
Date Analyzed:	11/20/14	Data File:	411354-01.065
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	93	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	2.14
Arsenic	<1
Cadmium	<1
Lead	<1

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0987-010_20141120, F&BI 411354
Date Extracted:	11/20/14	Lab ID:	I4-738 mb2
Date Analyzed:	11/20/14	Data File:	I4-738 mb2.064
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	97	60	125
Holmium	100	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Arsenic	<1
Cadmium	<1
Lead	<1

Date of Report: 11/26/14
Date Received: 11/20/14
Project: SOU_0987-010_20141120, F&BI 411354
Date Extracted: 11/20/14
Date Analyzed: 11/21/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
PGG1-20141119 f 411354-01	<0.1
Method Blank	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	PGG1-20141119	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010_20141120, F&BI 411354
Date Extracted:	11/20/14	Lab ID:	411354-01 1/2
Date Analyzed:	11/21/14	Data File:	112111.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	110	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	0.17
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0987-010_20141120, F&BI 411354
Date Extracted:	11/20/14	Lab ID:	04-2363 mb 1/2
Date Analyzed:	11/21/14	Data File:	112105.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	103	50	150
Benzo(a)anthracene-d12	116	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Date of Report: 11/26/14
Date Received: 11/20/14
Project: SOU_0987-010_20141120, F&BI 411354

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: 411326-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	ug/L (ppb)	20	<1	103	101	64-132	2
Arsenic	ug/L (ppb)	10	<1	104	101	60-150	3
Cadmium	ug/L (ppb)	5	<1	101	99	83-116	2
Lead	ug/L (ppb)	10	<1	105	104	79-121	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	100	80-119
Arsenic	ug/L (ppb)	10	95	80-111
Cadmium	ug/L (ppb)	5	96	83-113
Lead	ug/L (ppb)	10	105	83-115

Date of Report: 11/26/14
Date Received: 11/20/14
Project: SOU_0987-010_20141120, F&BI 411354

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: 411326-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.5	<0.1	94	95	71-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.5	92	88-113

Date of Report: 11/26/14
Date Received: 11/20/14
Project: SOU_0987-010_20141120, F&BI 411354

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	98	92	67-116	6
Acenaphthylene	ug/L (ppb)	1	103	97	65-119	6
Acenaphthene	ug/L (ppb)	1	99	93	66-118	6
Fluorene	ug/L (ppb)	1	102	95	64-125	7
Phenanthrene	ug/L (ppb)	1	100	94	67-120	6
Anthracene	ug/L (ppb)	1	105	98	65-122	7
Fluoranthene	ug/L (ppb)	1	104	97	65-127	7
Pyrene	ug/L (ppb)	1	108	102	62-130	6
Benz(a)anthracene	ug/L (ppb)	1	109	103	60-118	6
Chrysene	ug/L (ppb)	1	106	103	66-125	3
Benzo(b)fluoranthene	ug/L (ppb)	1	126	111	55-135	13
Benzo(k)fluoranthene	ug/L (ppb)	1	111	111	62-125	0
Benzo(a)pyrene	ug/L (ppb)	1	121	113	58-127	7
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	114	111	36-142	3
Dibenz(a,h)anthracene	ug/L (ppb)	1	106	109	37-133	3
Benzo(g,h,i)perylene	ug/L (ppb)	1	107	108	34-135	1

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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

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

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

411354

SAMPLE CHAIN OF CUSTODY

ME 11-20-14 AI4

Page # 1 of 1

Send Report To Audrey Hackett

Company SoundEarth Strategies

Address 2811 Fairview Ave E

City, State, ZIP Seattle WA 98102

Phone # 206 306 1900 Fax #

SAMPLERS (signature)

PROJECT NAME/NO. Myers Way Property 0187-010

PO # 0187-010-01

REMARKS Lab to filter prior to dissolved MTCA 5 analysis

GEMS Y / N

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

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	MTCA 5 Metals (dissolved) 200.8 *	PAHs 8270C	Notes
PGGI-20141119	PGGI	28'	01 A-B	11/19/14	12:15	W	2							X	X	Flab filter prior to analysis

TO 11/19/2014

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Kristine Sommer	SoundEarth	11/19/14	1700
Received by:					
Relinquished by:				11/20/14	1018
Received by:		Nhan Pham	FedEx	11/20/14	1018

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

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 4 °C

Friedman & Bruya, Inc. #411355

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 26, 2014

Audrey Hackett, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Hackett:

Included are the results from the testing of material submitted on November 20, 2014 from the SOU_0987-010-01_20141120, F&BI 411355 project. There are 23 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
SOU1126R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on November 20, 2014 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0987-010-01_20141120, F&BI 411355 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
411355-01	P08-04
411355-02	P08-07
411355-03	P08-15
411355-04	P09-04
411355-05	P09-06
411355-06	P09-15
411355-07	P10-04
411355-08	P10-05.5
411355-09	P10-15
411355-10	P11-04
411355-11	P11-10
411355-12	P11-13
411355-13	P12-05
411355-14	P12-10
411355-15	P12-15
411355-16	P12-20
411355-17	P13-05
411355-18	P13-08
411355-19	P13-15
411355-20	P14-05
411355-21	P14-08.5
411355-22	P14-10.5

All quality control requirements were acceptable.

Date of Report: 11/26/14
Date Received: 11/20/14
Project: SOU_0987-010-01_20141120, F&BI 411355
Date Extracted: 11/21/14
Date Analyzed: 11/21/14

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 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)
P08-15 411355-03	<0.02	<0.02	<0.02	<0.06	<2	88
Method Blank 04-2339 MB	<0.02	<0.02	<0.02	<0.06	<2	87

Date of Report: 11/26/14
Date Received: 11/20/14
Project: SOU_0987-010-01_20141120, F&BI 411355
Date Extracted: 11/21/14
Date Analyzed: 11/21/14

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

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

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 56-165)
P08-15 411355-03	<50	<250	102
Method Blank 04-2369 MB	<50	<250	98

Analysis For Total Metals By EPA Method 200.8

Client ID:	P08-04	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	411355-01
Date Analyzed:	11/24/14	Data File:	411355-01.063
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	91	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	19.0
Arsenic	3.35
Cadmium	<1
Lead	13.2
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P08-15	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	411355-03
Date Analyzed:	11/24/14	Data File:	411355-03.064
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125
Indium	93	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	8.13
Arsenic	<1
Cadmium	<1
Lead	1.65
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P09-04	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	411355-04
Date Analyzed:	11/24/14	Data File:	411355-04.066
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	93	60	125
Holmium	98	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	12.8
Arsenic	1.71
Cadmium	<1
Lead	3.76
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P09-06	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	411355-05
Date Analyzed:	11/24/14	Data File:	411355-05.067
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	106	60	125
Indium	95	60	125
Holmium	101	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	12.5
Arsenic	1.58
Cadmium	<1
Lead	3.28
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P10-05.5	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	411355-08
Date Analyzed:	11/24/14	Data File:	411355-08.068
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	96	60	125
Holmium	101	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	8.49
Arsenic	1.23
Cadmium	<1
Lead	2.18
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P11-10	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	411355-11
Date Analyzed:	11/24/14	Data File:	411355-11.069
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	96	60	125
Holmium	103	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	14.0
Arsenic	2.03
Cadmium	<1
Lead	10.7
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P12-05	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	411355-13
Date Analyzed:	11/24/14	Data File:	411355-13.070
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125
Indium	92	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	11.1
Arsenic	1.75
Cadmium	<1
Lead	3.71
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P13-08	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	411355-18
Date Analyzed:	11/24/14	Data File:	411355-18.071
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	96	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	16.4
Arsenic	16.7
Cadmium	<1
Lead	106
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P13-15	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	411355-19
Date Analyzed:	11/24/14	Data File:	411355-19.072
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	110	60	125
Indium	94	60	125
Holmium	98	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	23.9
Arsenic	5.22
Cadmium	<1
Lead	59.0
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	P14-08.5	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	411355-21
Date Analyzed:	11/24/14	Data File:	411355-21.057
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	94	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	13.4
Arsenic	4.63
Cadmium	<1
Lead	52.7
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	I4-753 mb
Date Analyzed:	11/24/14	Data File:	I4-753 mb.055
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	92	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	<1
Arsenic	<1
Cadmium	<1
Lead	<1
Mercury	<1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	P08-04	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	411355-01 1/5
Date Analyzed:	11/24/14	Data File:	112420.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	79	50	150
Benzo(a)anthracene-d12	91	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	0.011
Anthracene	<0.01
Fluoranthene	0.014
Pyrene	0.015
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	0.010
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	P08-15	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	411355-03 1/5
Date Analyzed:	11/24/14	Data File:	112414.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	70	50	150
Benzo(a)anthracene-d12	87	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	P14-08.5	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	411355-21 1/5
Date Analyzed:	11/24/14	Data File:	112421.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	78	50	150
Benzo(a)anthracene-d12	90	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.012
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	0.028
Anthracene	<0.01
Fluoranthene	0.042
Pyrene	0.049
Benz(a)anthracene	0.023
Chrysene	0.028
Benzo(a)pyrene	0.024
Benzo(b)fluoranthene	0.029
Benzo(k)fluoranthene	0.010
Indeno(1,2,3-cd)pyrene	0.017
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	0.020

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	11/24/14	Lab ID:	04-2373 mb 1/5
Date Analyzed:	11/24/14	Data File:	112404.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	69	50	150
Benzo(a)anthracene-d12	81	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

Date of Report: 11/26/14
Date Received: 11/20/14
Project: SOU_0987-010-01_20141120, F&BI 411355

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: 411234-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	91	69-120
Toluene	mg/kg (ppm)	0.5	95	70-117
Ethylbenzene	mg/kg (ppm)	0.5	94	65-123
Xylenes	mg/kg (ppm)	1.5	93	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

Date of Report: 11/26/14
Date Received: 11/20/14
Project: SOU_0987-010-01_20141120, F&BI 411355

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 411288-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	94	96	63-146	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	95	79-144

Date of Report: 11/26/14
Date Received: 11/20/14
Project: SOU_0987-010-01_20141120, F&BI 411355

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 411355-21 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/kg (ppm)	50	12.2	90 b	97 b	57-128	7 b
Arsenic	mg/kg (ppm)	10	4.21	92 b	94 b	70-118	2 b
Cadmium	mg/kg (ppm)	10	<1	104	108	83-116	4
Lead	mg/kg (ppm)	50	48.0	97 b	108 b	59-148	11 b
Mercury	mg/kg (ppm	10	<1	97	99	50-150	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	mg/kg (ppm)	50	102	78-121
Arsenic	mg/kg (ppm)	10	96	83-113
Cadmium	mg/kg (ppm)	10	106	54-114
Lead	mg/kg (ppm)	50	107	80-120
Mercury	mg/kg (ppm)	10	99	70-130

Date of Report: 11/26/14
Date Received: 11/20/14
Project: SOU_0987-010-01_20141120, F&BI 411355

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 411388-01 (Matrix Spike) 1/5

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	0.034	101	98	44-129	3
Acenaphthylene	mg/kg (ppm)	0.17	<0.01	86	84	52-121	2
Acenaphthene	mg/kg (ppm)	0.17	<0.01	91	91	51-123	0
Fluorene	mg/kg (ppm)	0.17	0.034	96	91	37-137	5
Phenanthrene	mg/kg (ppm)	0.17	0.043	91 b	85 b	45-124	7 b
Anthracene	mg/kg (ppm)	0.17	<0.01	88	87	32-124	1
Fluoranthene	mg/kg (ppm)	0.17	<0.01	87	85	50-125	2
Pyrene	mg/kg (ppm)	0.17	0.014	98	92	41-135	6
Benz(a)anthracene	mg/kg (ppm)	0.17	<0.01	90	88	23-144	2
Chrysene	mg/kg (ppm)	0.17	<0.01	88	86	45-122	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	<0.01	97	94	31-144	3
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.01	106	102	45-130	4
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.01	94	93	39-128	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.01	94	93	28-146	1
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.01	94	93	46-129	1
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.01	92	92	37-133	0

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.17	84	58-121
Acenaphthylene	mg/kg (ppm)	0.17	85	54-121
Acenaphthene	mg/kg (ppm)	0.17	86	54-123
Fluorene	mg/kg (ppm)	0.17	88	56-127
Phenanthrene	mg/kg (ppm)	0.17	87	55-122
Anthracene	mg/kg (ppm)	0.17	81	50-120
Fluoranthene	mg/kg (ppm)	0.17	86	54-129
Pyrene	mg/kg (ppm)	0.17	91	53-127
Benz(a)anthracene	mg/kg (ppm)	0.17	88	51-115
Chrysene	mg/kg (ppm)	0.17	90	55-129
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	95	56-123
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	104	54-131
Benzo(a)pyrene	mg/kg (ppm)	0.17	87	51-118
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	96	49-148
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	97	50-141
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	96	52-131

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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

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

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

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

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

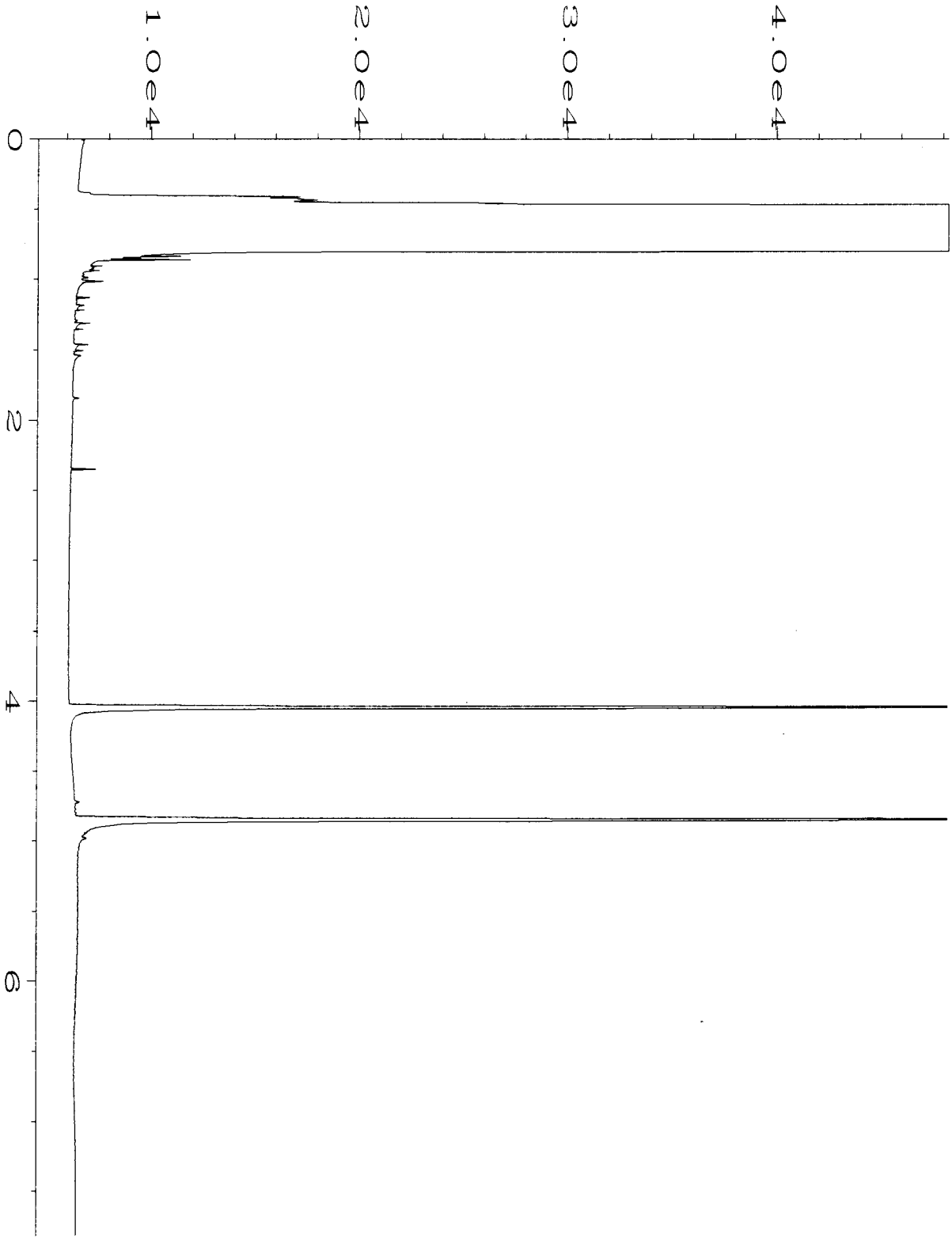
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



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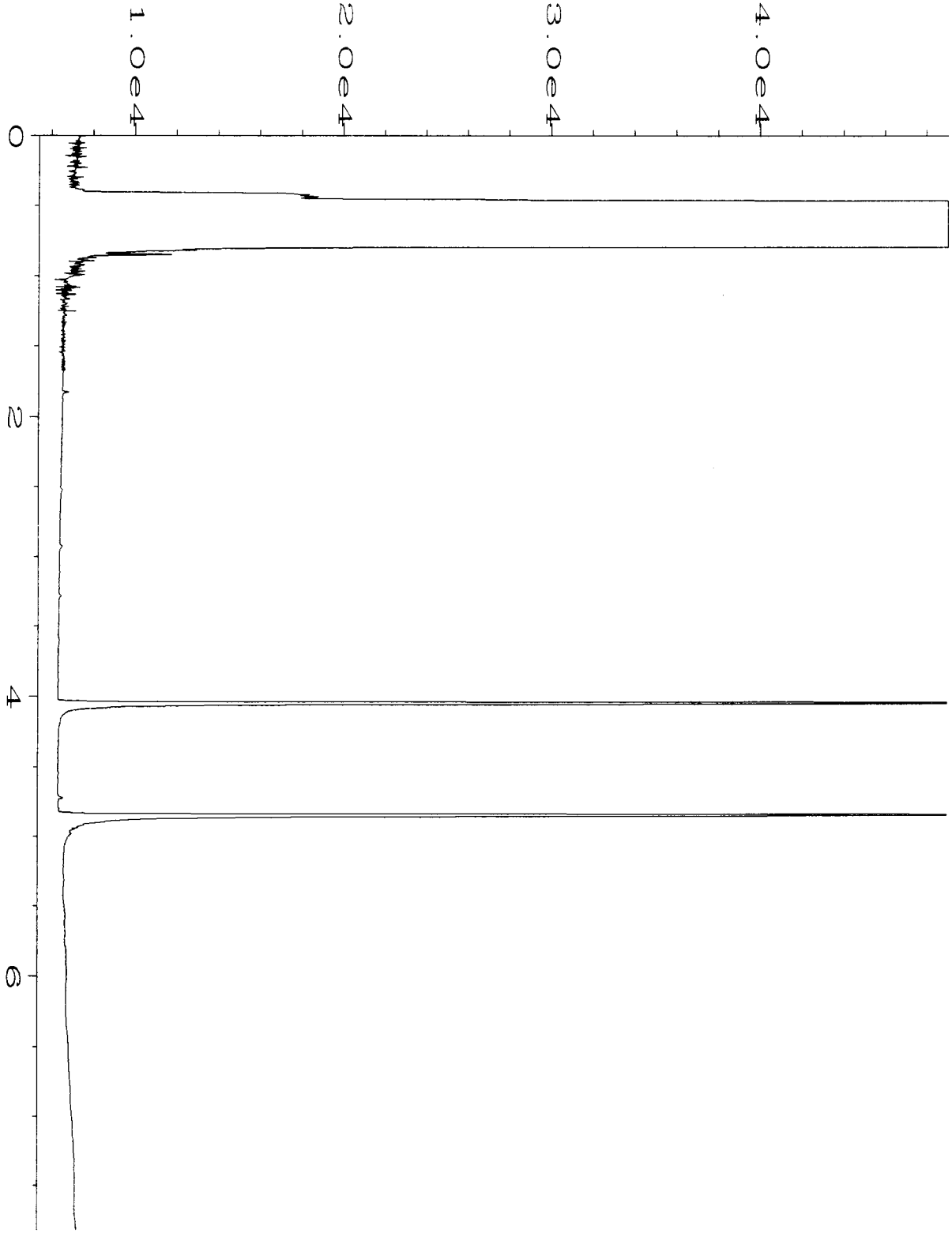
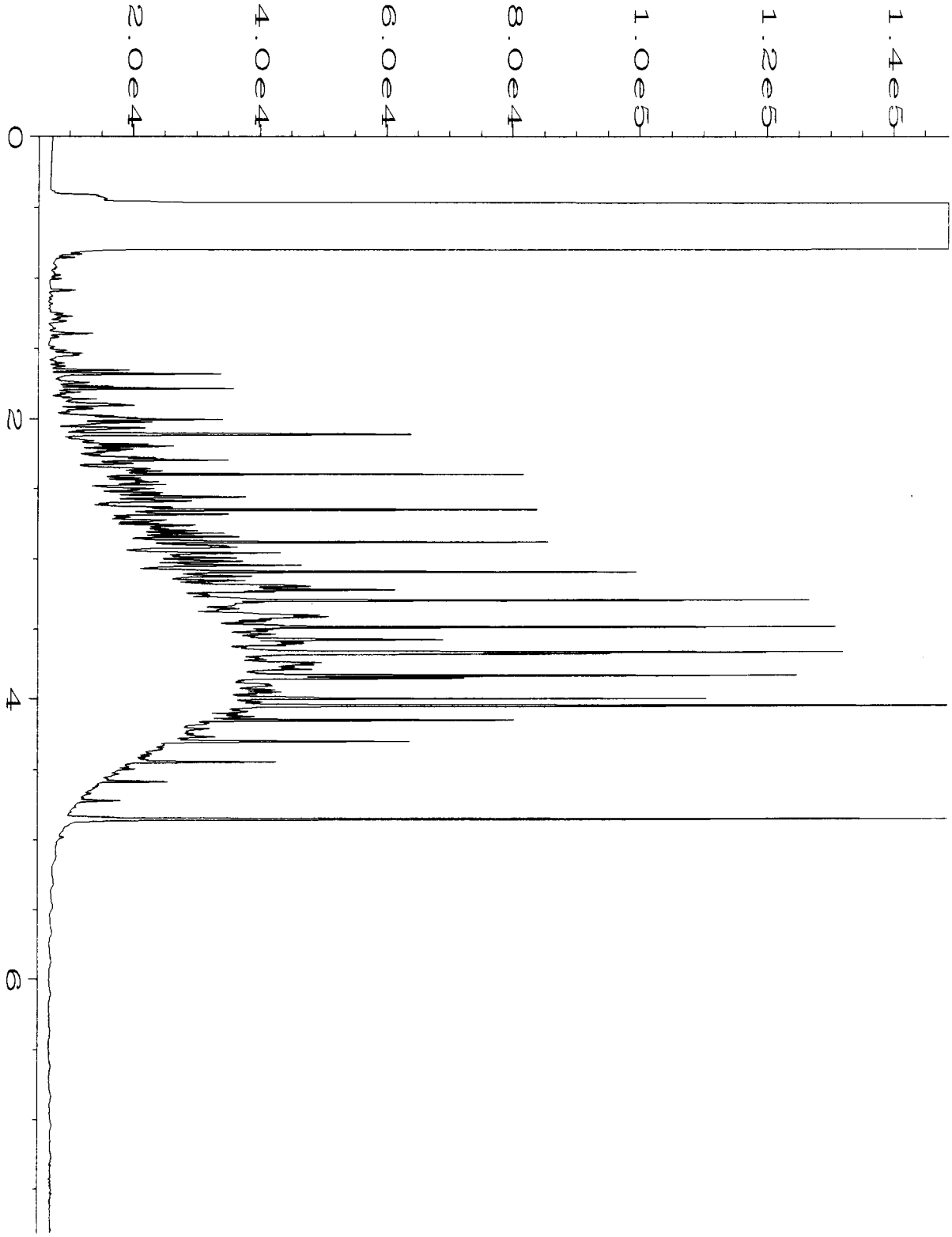
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 19
Sample Name	: 411355-03	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 3
Acquired on	: 21 Nov 14 12:10 PM	Instrument Method	: DX.MTH
Report Created on	: 21 Nov 14 12:49 PM	Analysis Method	: END.MTH



Data File Name	: C:\HPCHEM\1\DATA\11-21-14\006F0301.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 6
Sample Name	: 04-2369 mb	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 3
Acquired on	: 21 Nov 14 09:33 AM	Instrument Method	: DX.MTH
Report Created on	: 21 Nov 14 12:48 PM	Analysis Method	: END.MTH



Data File Name	: C:\HPCHEM\1\DATA\11-21-14\003F0201.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 3
Sample Name	: 500 Dx 43-199B	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 2
Acquired on	: 21 Nov 14 09:12 AM	Instrument Method	: DX.MTH
Report Created on	: 21 Nov 14 12:48 PM	Analysis Method	: END.MTH

411355

SAMPLE CHAIN OF CUSTODY

ME 11-20-14

D04/4

Page # 1 of 3

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.: Myers Way Property

PO #: 0987-010-01

REMARKS: ~~Hold~~

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

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	MTCA 5 METALS	PAHs		Notes
P08-04	P08	04	01A-B	11/19/14	0920	Soil	2						X	X		
P08-07		07	02 T		0925		2									
P08-15		15	03A-F		0930		6	X	X	X			X	X		
P09-04	P09	04	04A-B		1010		2						X			
P09-06		06	05A-F		1015		6						X			
P09-15		15	06A-B		1025		2									
P10-04	P10	04	07 T		1110		2									
P10-05.5		05.5	08A-F		1115		6						X			
P10-15		15	09A-B		1120		2									
P11-04		04	10 T		1230		2									

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:	Chris Cass	SoundEarth Strategies, Inc.	11/20/14	1018
Received by:	Khan Pham	FCB I	11/20/14	1018
Relinquished by:				
Received by:		Samples received at 4 °C		

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411355

SAMPLE CHAIN OF CUSTODY ME 11-20-14

Page # 2 of 3

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.: Myers Way Property

PO #: 0987-010-01

REMARKS Hold

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

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	MTCA 5 Metals	PAHs		Notes
P11-10	P11	10	11A-F	11/19/14	1235	Soil	6						X			
P11-13	↓	13	12A-B		1240	↓	2									
P12-05	P12	05	13 T		1335		2						X			
P12-10		10	14A-F		1340		6									
P12-15		15	15A-B		1345		2									
P12-20	↓	20	16 T		1350		2									
P13-05	P13	05	17A-F		1410		6									
P13-08		08	18A-B		1415		2						X			
P13-15	↓	15	19 T		1420		2						X			
P14-05	P14	05	20	↓	1505	↓	2									

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:	Chris Cass	SoundEarth Strategies, Inc.	11/20/14	1018
Received by:	Nhan Phan	FEBI	11/20/14	1018
Relinquished by:				
Received by:		Samples received at 4 °C		

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411355

SAMPLE CHAIN OF CUSTODY

ME 11-20-14

Page # 3 of 3

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.: Myers Way Property

PO #: 0987-010-01

REMARKS: Hold

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

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED								Notes
								NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	MTCAS METALS	PAHs		
P14-08.5	P14	~~11.5~~ 08.5	21k-B	11/19/14	1515	Soil	2						X	X		
P14-10.5	↓	10.5	22k-F	↓	1520	↓	6									

11/19/14

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chris Cass	SoundEarth Strategies, Inc.	11/20/14	1018
Received by:	Nhan Phan	FCBI	11/20/14	1018
Relinquished by:				
Received by:		Samples received at		4 °C

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

FORMS\COC\COC.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
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fbi@isomedia.com
www.friedmanandbruya.com

December 30, 2014

Audrey Hackett, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Hackett:

Included are the additional results from the testing of material submitted on November 20, 2014 from the SOU_0987-010-01_20141120, F&BI 411355 project. There are 5 pages included in this report.

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
SOU1230R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on November 20, 2014 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0987-010-01_20141120, F&BI 411355 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
411355-01	P08-04
411355-02	P08-07
411355-03	P08-15
411355-04	P09-04
411355-05	P09-06
411355-06	P09-15
411355-07	P10-04
411355-08	P10-05.5
411355-09	P10-15
411355-10	P11-04
411355-11	P11-10
411355-12	P11-13
411355-13	P12-05
411355-14	P12-10
411355-15	P12-15
411355-16	P12-20
411355-17	P13-05
411355-18	P13-08
411355-19	P13-15
411355-20	P14-05
411355-21	P14-08.5
411355-22	P14-10.5

All quality control requirements were acceptable.

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID:	P13-08	Client:	SoundEarth Strategies
Date Received:	11/20/14	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	12/19/14	Lab ID:	411355-18
Date Analyzed:	12/19/14	Data File:	411355-18.023
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/L (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	99	60	125

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Lead	<1	5.0

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0987-010-01_20141120, F&BI 411355
Date Extracted:	12/19/14	Lab ID:	I4-812 mb
Date Analyzed:	12/19/14	Data File:	I4-812 mb.013
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/L (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	98	60	125

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Lead	<1	5.0

Date of Report: 12/30/14
Date Received: 11/20/14
Project: SOU_0987-010-01_20141120, F&BI 411355

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TCLP METALS USING EPA METHOD 200.8 AND 40 CFR PART 261

Laboratory Code: 411304-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Lead	mg/L (ppm)	1.0	<1	106	97	50-150	9

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Lead	mg/L (ppm)	1.0	106	70-130

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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

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

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

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

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

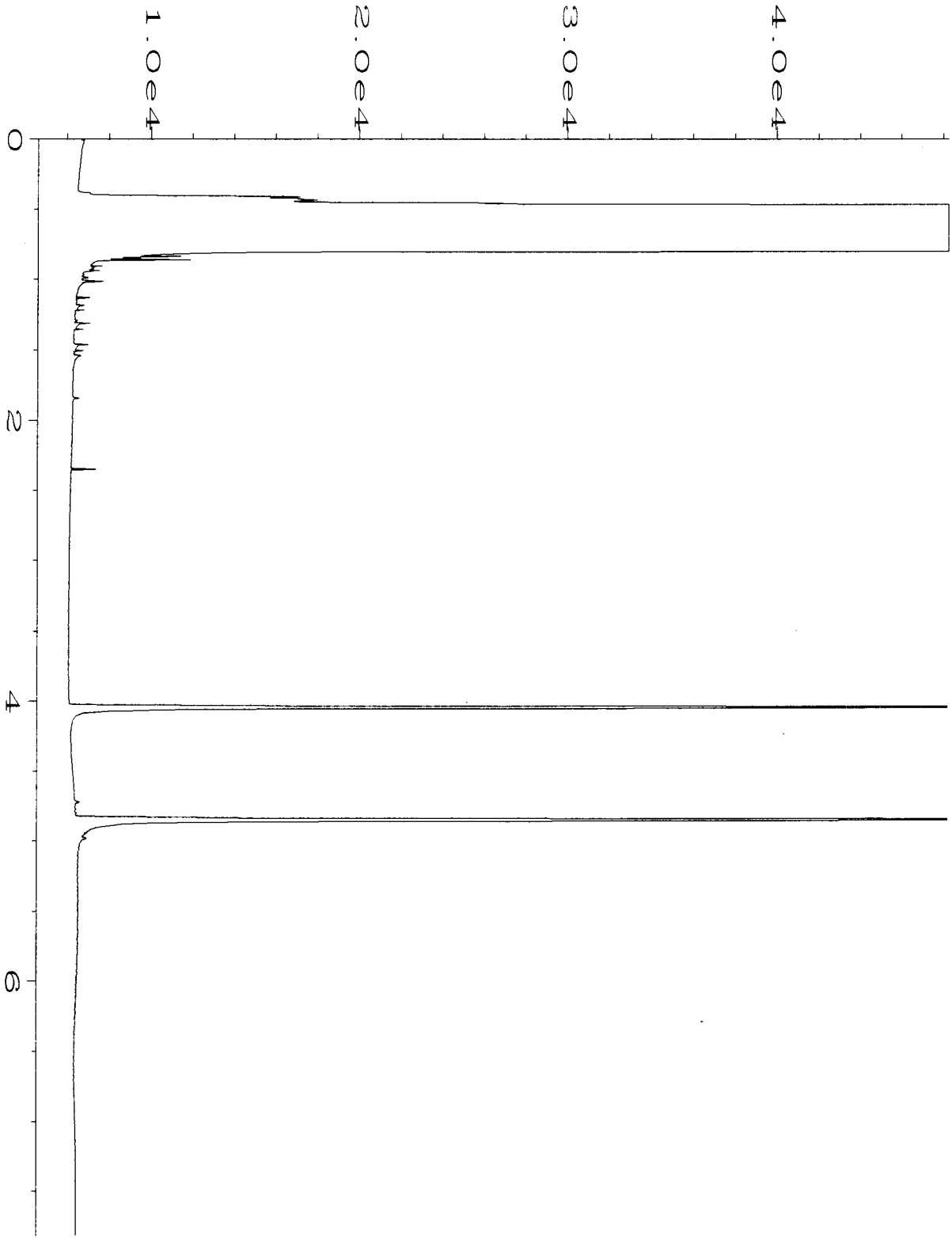
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

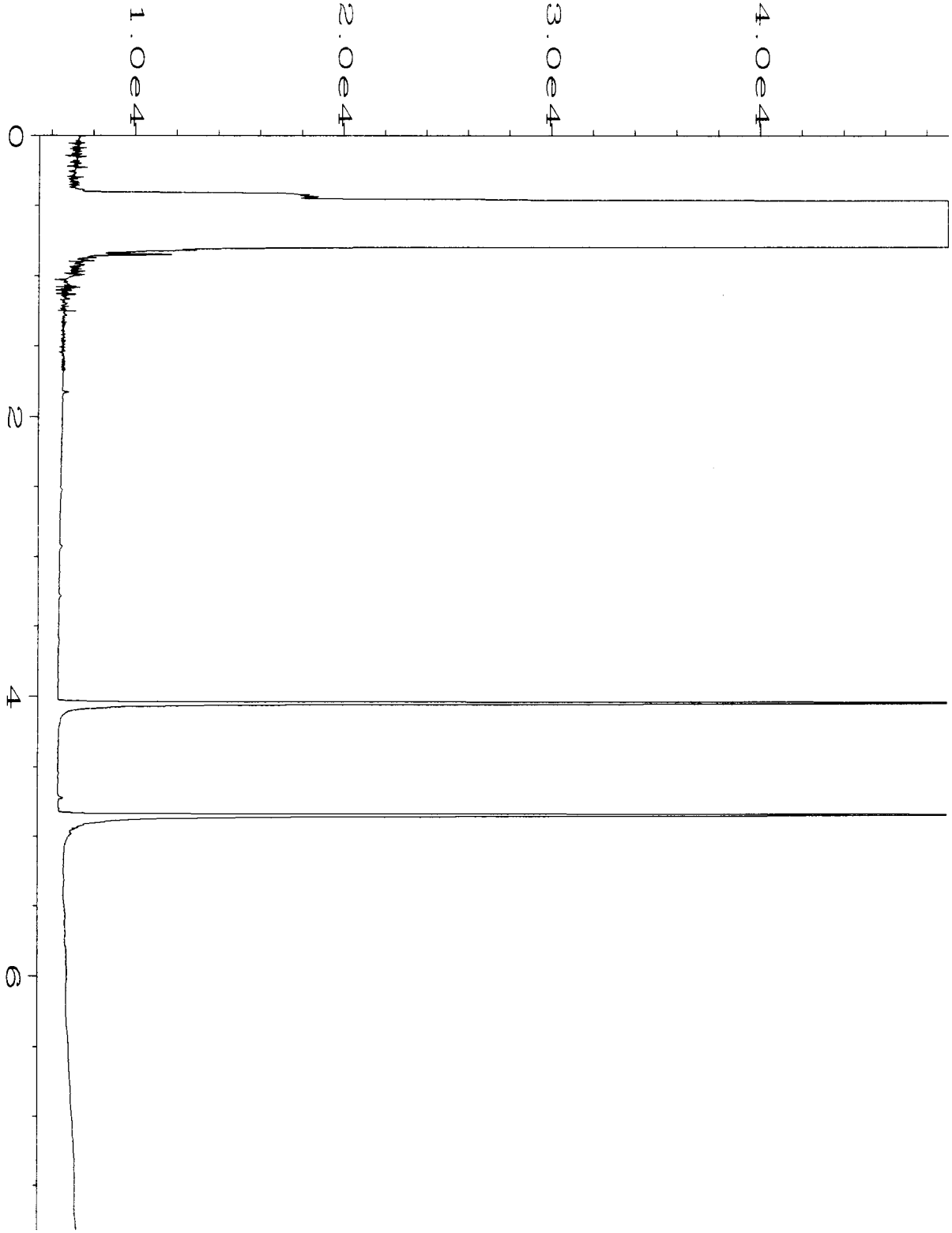
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

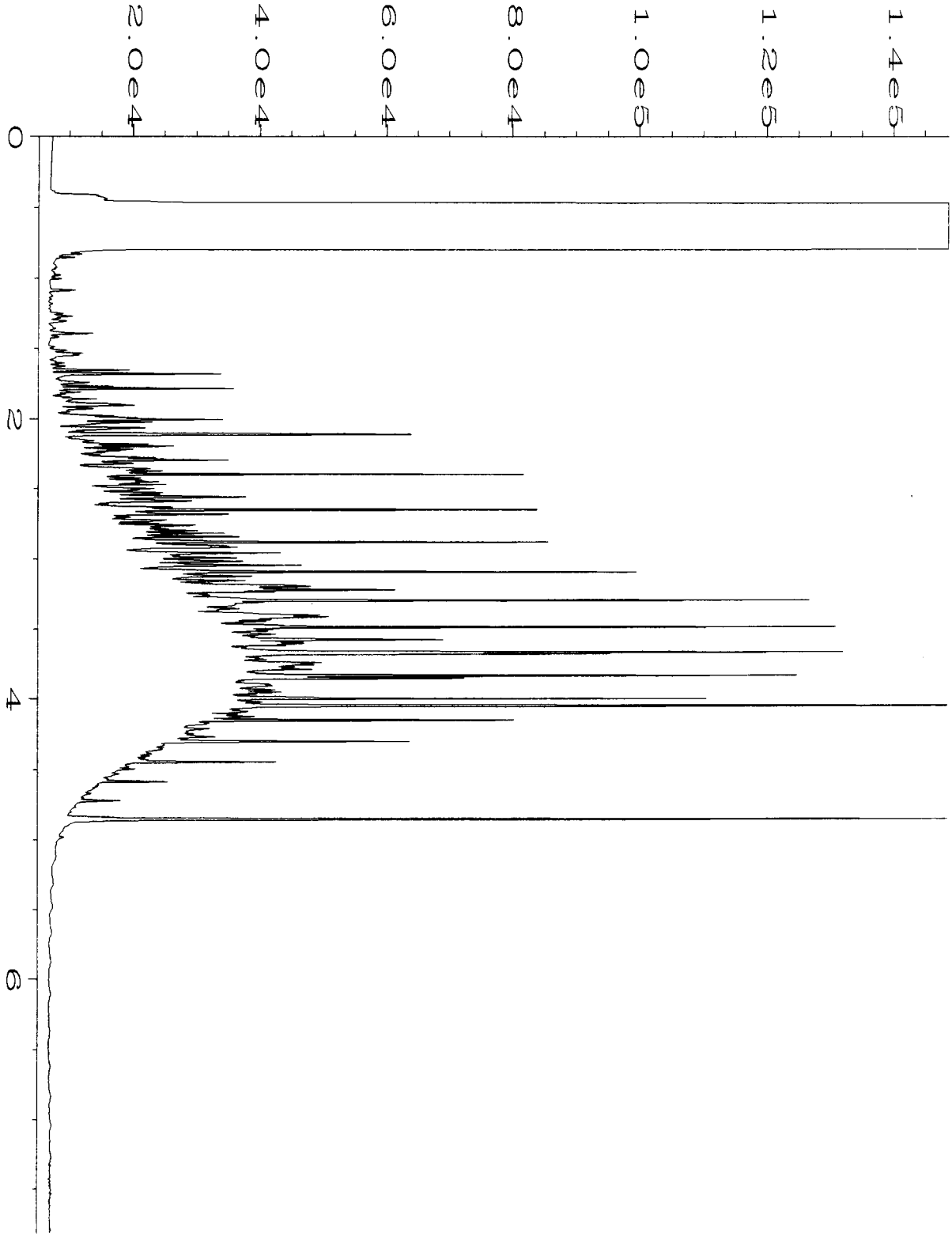
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



Data File Name	: C:\HPCHEM\1\DATA\11-21-14\019F0301.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 19
Sample Name	: 411355-03	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 3
Acquired on	: 21 Nov 14 12:10 PM	Instrument Method	: DX.MTH
Report Created on	: 21 Nov 14 12:49 PM	Analysis Method	: END.MTH



Data File Name	: C:\HPCHEM\1\DATA\11-21-14\006F0301.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 6
Sample Name	: 04-2369 mb	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 3
Acquired on	: 21 Nov 14 09:33 AM	Instrument Method	: DX.MTH
Report Created on	: 21 Nov 14 12:48 PM	Analysis Method	: END.MTH



Data File Name	: C:\HPCHEM\1\DATA\11-21-14\003F0201.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 3
Sample Name	: 500 Dx 43-199B	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 2
Acquired on	: 21 Nov 14 09:12 AM	Instrument Method	: DX.MTH
Report Created on	: 21 Nov 14 12:48 PM	Analysis Method	: END.MTH

411355

SAMPLE CHAIN OF CUSTODY ME 11-20-14

D04/4

Page # 1 of 3

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.: Myers Way Property

PO #: 0987-010-01

REMARKS: ~~Hold~~

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

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	MTCA 5 METALS	PAHs		Notes
P08-04	P08	04	01A-B	11/19/14	0920	Soil	2						X	X		
P08-07		07	02 T		0925		2									
P08-15		15	03A-F		0930		6	X	X	X			X	X		
P09-04	P09	04	04A-B		1010		2						X			
P09-06		06	05A-F		1015		6						X			
P09-15		15	06A-B		1025		2									
P10-04	P10	04	07 T		1110		2									
P10-05.5		05.5	08A-F		1115		6						X			
P10-15		15	09A-B		1120		2									
P11-04		04	10 T		1230		2									

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

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SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chris Cass	SoundEarth Strategies, Inc.	11/20/14	1018
Received by:	Dhan Phan	FCB	11/20/14	1018
Relinquished by:				
Received by:		Samples received at 4 °C		

411355

SAMPLE CHAIN OF CUSTODY ME 11-20-14

Page # 2 of 3

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E. Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.: Myers Way Property

PO #: 0987-010-01

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	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	MTCA 5 Metals	PAHs	TCLP Lead	Notes
P11-10	P11	10	11A-F	11/19/14	1235	Soil	6						X			0-per AH
P11-13	↓	13	12A-B		1240	↓	2									12/17/14
P12-05	P12	05	13 T		1335		2						X			MG
P12-10		10	14A-F		1340		6									
P12-15		15	15A-B		1345		2									
P12-20	↓	20	16 T		1350		2									
P13-05	P13	05	17A-F		1410		6									
P13-08		08	18A-B		1415		2						X		O	
P13-15	↓	15	19 T		1420		2						X			
P14-05	P14	05	20	↓	1505	↓	2									

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

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Chris Cass	SoundEarth Strategies, Inc.	11/20/14	1018
Received by:		Nham Pham	FedEx	11/20/14	1018
Relinquished by:					
Received by:			Samples received at 4 °C		

411365

SAMPLE CHAIN OF CUSTODY ME 11-20-14

Page # 3 of 3

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. Myers Way Property

PO # 0987-010-01

REMARKS ~~Hold~~

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

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	MTCA 5 METALS	PAHs		Notes
P14-08.5	P14	08.5	21 A-B	11/19/14	1515	Soil	2						X	X		
P14-10.5	↓	10.5	22 A-F	↓	1520	↓	6									

CC 11/19/14

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:	Chad Cass	SoundEarth Strategies, Inc.	11/20/14	1018
Received by:	Nhan Phan	FeBT	11/20/14	1018
Relinquished by:				
Received by:				

Samples received at 4 °C

FORMS\COC\COC.DOC

Friedman & Bruya, Inc. #411415

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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fbi@isomedia.com
www.friedmanandbruya.com

December 5, 2014

Audrey Hackett, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Hackett:

Included are the results from the testing of material submitted on November 25, 2014 from the SOU_0987-010-01_20141125, F&BI 411415 project. There are 30 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
SOU1205R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on November 25, 2014 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0987-010-01_20141125, F&BI 411415 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
411415 -01	MW01_20141124
411415 -02	MW02_20141124
411415 -03	MW03_20141124
411415 -04	MW04_20141124
411415 -05	MW05_20141124
411415 -06	MW06_20141124
411415 -07	MW08_20141124

A 200.8 internal standard was out of control limits for several samples. Compounds in the sample matrix interfered with quantitation of the internal standard. The samples were diluted and reanalyzed.

The dissolved MTCA metals analysis could not be performed. The samples were submitted with nitric acid preservation.

The 8270D laboratory control sample and laboratory control sample duplicate failed the relative percent difference for dibenz(a,h)anthracene. The analyte was not detected therefore the data were acceptable.

All other quality control requirements were acceptable.

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411415
Date Extracted: 11/25/14
Date Analyzed: 11/25/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 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)
MW08_20141124 411415-07	<1	<1	<1	<3	<100	79
Method Blank 04-2391 MB	<1	<1	<1	<3	<100	77

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411415
Date Extracted: 11/25/14
Date Analyzed: 11/25/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 47-140)
MW08_20141124 411415-07	<50	<250	100
Method Blank 04-2374 MB2	<50	<250	101

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW01_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-01
Date Analyzed:	12/01/14	Data File:	411415-01.024
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	80	60	125
Indium	77	60	125
Holmium	84	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	3.03
Cadmium	<1
Chromium	1.15
Lead	<1
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW02_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-02
Date Analyzed:	11/26/14	Data File:	411415-02.023
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	73	60	125
Indium	88	60	125
Holmium	99	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	9.78
Cadmium	<1
Chromium	2.03 ca
Lead	4.30
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW02_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-02 x10
Date Analyzed:	12/01/14	Data File:	411415-02 x10.029
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	105	60	125
Indium	99	60	125
Holmium	102	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	11.2
Cadmium	<10
Chromium	<10
Lead	<10
Mercury	<10

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW03_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-03
Date Analyzed:	11/26/14	Data File:	411415-03.024
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	62	60	125
Indium	80	60	125
Holmium	100	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	2.25
Cadmium	<1
Chromium	1.61 ca
Lead	<1
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW03_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-03 x10
Date Analyzed:	12/01/14	Data File:	411415-03 x10.030
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	98	60	125
Holmium	100	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	<10
Cadmium	<10
Chromium	<10
Lead	<10
Mercury	<10

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW04_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-04
Date Analyzed:	11/26/14	Data File:	411415-04.025
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	75	60	125
Indium	96	60	125
Holmium	106	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Cadmium	<1
Chromium	<1 ca
Lead	<1
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW04_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-04 x10
Date Analyzed:	12/01/14	Data File:	411415-04 x10.031
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125
Indium	101	60	125
Holmium	101	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	<10
Cadmium	<10
Chromium	<10
Lead	<10
Mercury	<10

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW05_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-05
Date Analyzed:	11/26/14	Data File:	411415-05.026
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	51 vo	60	125
Indium	59 vo	60	125
Holmium	88	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	6.36 J
Cadmium	<1 J
Chromium	2.15 J ca
Lead	<1
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW05_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-05 x10
Date Analyzed:	12/01/14	Data File:	411415-05 x10.032
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	99	60	125
Holmium	104	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	<10
Cadmium	<10
Chromium	<10
Lead	<10
Mercury	<10

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW06_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-06
Date Analyzed:	11/26/14	Data File:	411415-06.027
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	48 vo	60	125
Indium	48 vo	60	125
Holmium	81	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	32.8 J
Cadmium	<1 J
Chromium	2.54 J ca
Lead	1.25
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW06_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-06 x10
Date Analyzed:	12/01/14	Data File:	411415-06 x10.033
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	99	60	125
Holmium	103	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	34.0
Cadmium	<10
Chromium	<10
Lead	<10
Mercury	<10

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW08_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-07
Date Analyzed:	11/26/14	Data File:	411415-07.016
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125
Indium	92	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	1.53
Cadmium	<1
Chromium	2.00
Lead	<1
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	I4-757 mb
Date Analyzed:	11/26/14	Data File:	I4-757 mb.018
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	97	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Cadmium	<1
Chromium	<1 ca
Lead	<1
Mercury	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	I4-757 mb
Date Analyzed:	12/01/14	Data File:	I4-757 mb.022
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	86	60	125
Indium	86	60	125
Holmium	88	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	MW01_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-01 1/2
Date Analyzed:	11/25/14	Data File:	112511.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	116	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	MW02_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-02 1/2
Date Analyzed:	11/25/14	Data File:	112512.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	103	50	150
Benzo(a)anthracene-d12	113	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	MW03_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-03 1/2
Date Analyzed:	11/25/14	Data File:	112513.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	105	50	150
Benzo(a)anthracene-d12	118	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	MW04_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-04 1/2
Date Analyzed:	11/25/14	Data File:	112514.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	99	50	150
Benzo(a)anthracene-d12	108	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	MW05_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-05 1/2
Date Analyzed:	11/25/14	Data File:	112515.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	106	50	150
Benzo(a)anthracene-d12	110	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	0.15
Fluorene	0.18
Phenanthrene	0.38
Anthracene	<0.1
Fluoranthene	0.21
Pyrene	0.14
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	MW06_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-06 1/2
Date Analyzed:	11/25/14	Data File:	112516.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	109	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	MW08_20141124	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	411415-07 1/2
Date Analyzed:	11/25/14	Data File:	112517.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	114	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0987-010-01_20141125, F&BI 411415
Date Extracted:	11/25/14	Lab ID:	04-2387 mb2
Date Analyzed:	11/25/14	Data File:	112510.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	106	50	150
Benzo(a)anthracene-d12	131 vo	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411415

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: 411425-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	93	65-118
Toluene	ug/L (ppb)	50	91	72-122
Ethylbenzene	ug/L (ppb)	50	93	73-126
Xylenes	ug/L (ppb)	150	88	74-118
Gasoline	ug/L (ppb)	1,000	94	69-134

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411415

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	98	92	63-142	6

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411415

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 411415-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	3.03	98 b	102 b	60-150	4 b
Cadmium	ug/L (ppb)	5	<1	93	92	83-116	1
Chromium	ug/L (ppb)	20	1.15	98	98	64-132	0
Lead	ug/L (ppb)	10	<1	102	99	79-121	3
Mercury	ug/L (ppb)	10	<1	95	93	50-150	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	100	80-111
Cadmium	ug/L (ppb)	5	104	83-113
Chromium	ug/L (ppb)	20	105	80-119
Lead	ug/L (ppb)	10	110	83-115
Mercury	ug/L (ppb)	10	104	70-130

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411415

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	88	90	67-116	2
Acenaphthylene	ug/L (ppb)	1	90	93	65-119	3
Acenaphthene	ug/L (ppb)	1	88	90	66-118	2
Fluorene	ug/L (ppb)	1	90	92	64-125	2
Phenanthrene	ug/L (ppb)	1	90	93	67-120	3
Anthracene	ug/L (ppb)	1	90	90	65-122	0
Fluoranthene	ug/L (ppb)	1	90	92	65-127	2
Pyrene	ug/L (ppb)	1	91	94	62-130	3
Benz(a)anthracene	ug/L (ppb)	1	95	97	60-118	2
Chrysene	ug/L (ppb)	1	91	93	66-125	2
Benzo(b)fluoranthene	ug/L (ppb)	1	100	105	55-135	5
Benzo(k)fluoranthene	ug/L (ppb)	1	104	105	62-125	1
Benzo(a)pyrene	ug/L (ppb)	1	103	108	58-127	5
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	96	104	36-142	8
Dibenz(a,h)anthracene	ug/L (ppb)	1	79	100	37-133	23 vo
Benzo(g,h,i)perylene	ug/L (ppb)	1	85	100	34-135	16

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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

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

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

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

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

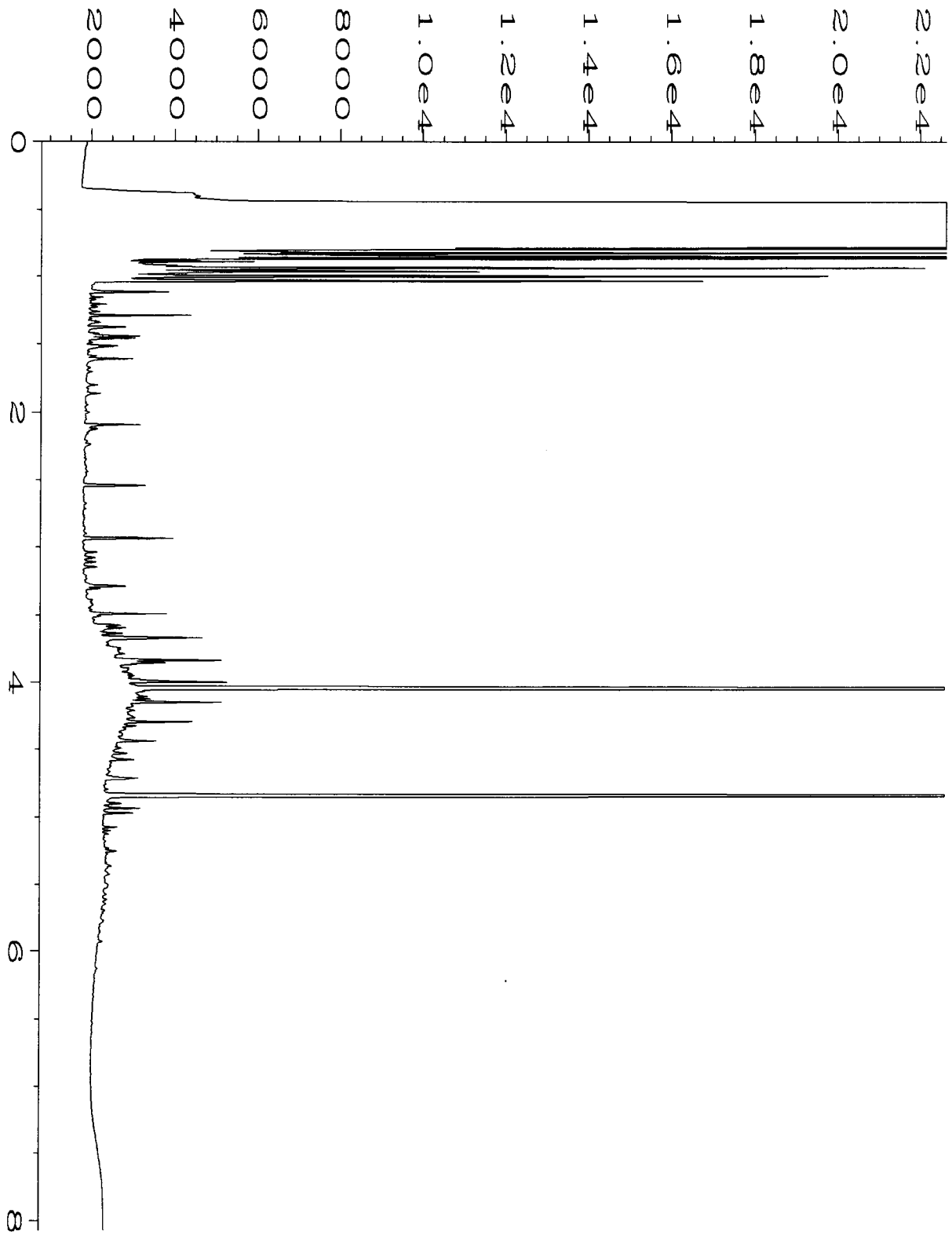
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

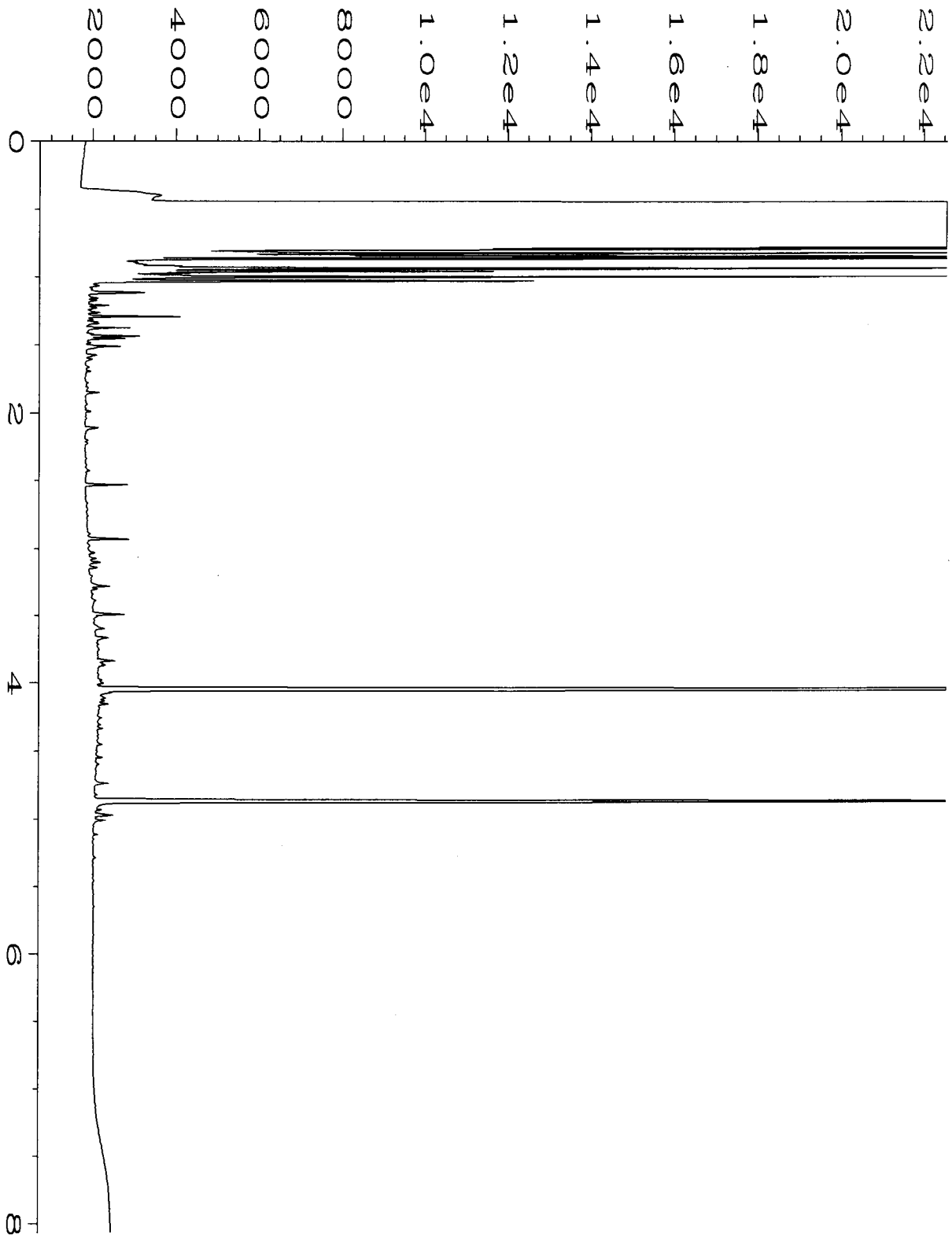
vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



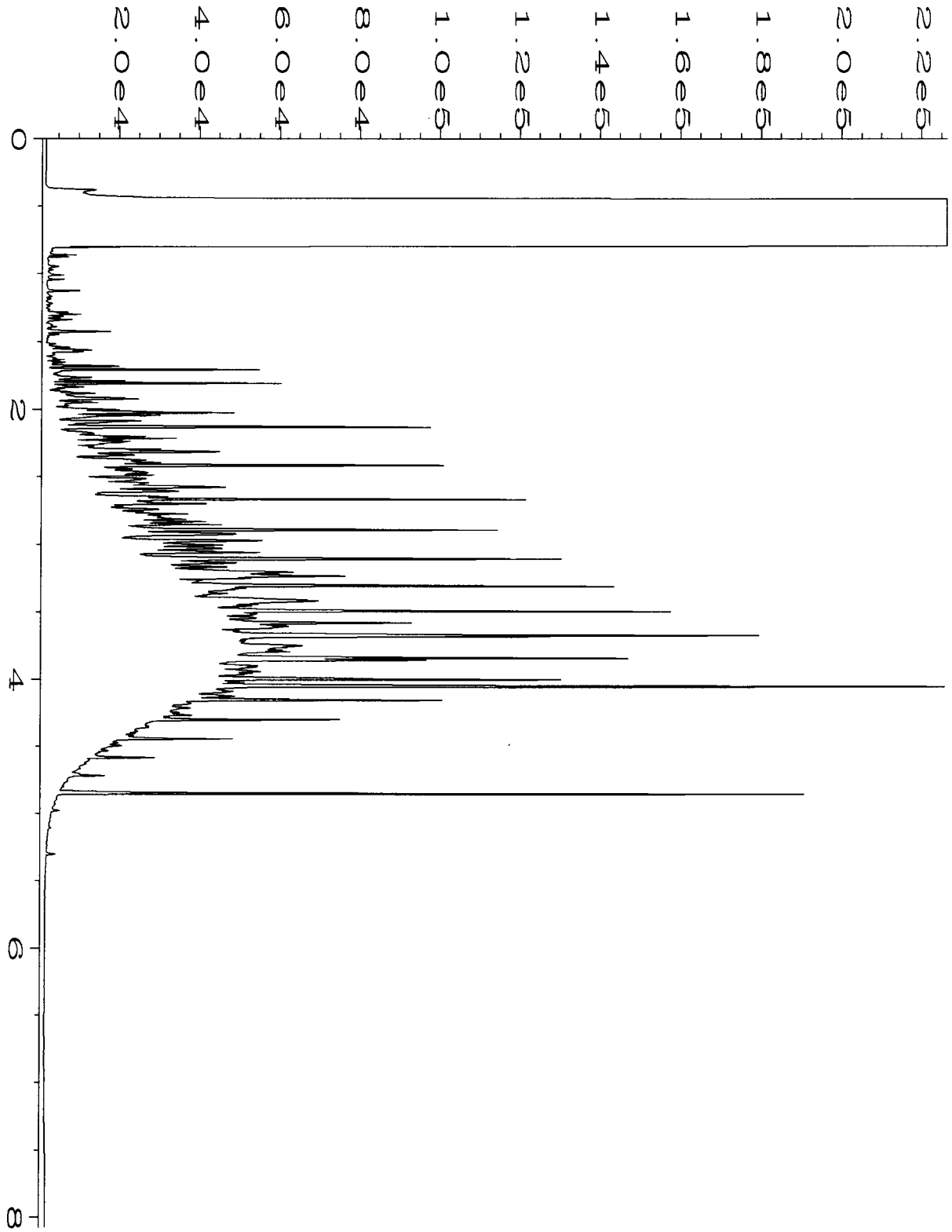
Data File Name : C:\HPCHEM\4\DATA\11-25-14\013F0301.D
Operator : mwdl
Instrument : GC#4
Sample Name : 411415-07
Run Time Bar Code:
Acquired on : 25 Nov 14 02:25 PM
Report Created on: 26 Nov 14 08:42 AM

Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 3
Instrument Method: DX.MTH
Analysis Method : DX.MTH



Data File Name : C:\HPCHEM\4\DATA\11-25-14\012F0301.D

Operator	: mwdl	Page Number	: 1
Instrument	: GC#4	Vial Number	: 12
Sample Name	: 04-2374 mb2	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 3
Acquired on	: 25 Nov 14 02:14 PM	Instrument Method	: DX.MTH
Report Created on	: 26 Nov 14 08:42 AM	Analysis Method	: DX.MTH



Data File Name	: C:\HPCHEM\4\DATA\11-25-14\003F0201.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC#4	Vial Number	: 3
Sample Name	: 500 Dx 43-199B	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 2
Acquired on	: 25 Nov 14 09:06 AM	Instrument Method	: DX.MTH
Report Created on	: 26 Nov 14 08:42 AM	Analysis Method	: DX.MTH

411415

SAMPLE CHAIN OF CUSTODY ME 11/25/14

ATLS V1

Page # 1 of 1

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.: Myers Way Property

PO #: 0987-010-01

REMARKS
* lab will need to filter prior to metal analysis.

TURNAROUND TIME
Standard (2 Weeks)
X RUSH Need 12/1/14
Rush charges authorized by:

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	PAHs 8270C	RCRA 8 Metals 6020		Notes
MW01-20141124	MW01		01A-B	11/24	1005	W	2						X	X		Co-per AH 11/25/14
MW02-20141127	MW02		02	11/24	1102	W	2						X	X		
MW03-20141124	MW03		03	11/24	1203	W	2						X	X		MS
MW04-20141124	MW04		04	11/24	0954	W	2						X	X		
MW05-20141124	MW05		05	11/24	1126	W	2						X	X		
MW06-20141124	MW06		06	11/24	1258	W	2						X	X		
MW08-20141124	MW08		07A-F	11/24	1258	W	6	X	X	O			X	X		

11/24/2014

Samples received at 2 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	AUDREY HACKETT	SoundEarth Strategies, Inc.	12/24/14	8:45
Received by:		F + B	12/24/14	9145
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
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Friedman & Bruya, Inc. #411435

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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December 5, 2014

Audrey Hackett, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Hackett:

Included are the results from the testing of material submitted on November 25, 2014 from the SOU_0987-010-01_20141125, F&BI 411435 project. There are 34 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
SOU1205R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on November 25, 2014 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0987-010-01_20141125, F&BI 411435 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
411435 -01	MW07_20141125
411435 -02	MW09_20141125
411435 -03	MW10_20141125
411435 -04	MW11_20141125
411435 -05	MW12_20141125
411435 -06	MW13_20141125

The 200.8 metals samples were filtered from glass 500 mL amber containers at Friedman and Bruya on November 26, 2014 at 8:30 AM.

An 8270D internal standard failed the acceptance criteria for the method blank. The data were flagged accordingly.

Several NWTPH-Gx and 8021B samples were received with headspace present in the samples. The data were flagged accordingly.

All other quality control requirements were acceptable.

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411435
Date Extracted: 11/26/14
Date Analyzed: 11/26/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 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 50-150)
MW07_20141125 hs 411435-01	<1	<1	<1	<3	<100	79
MW09_20141125 hs 411435-02	<1	<1	<1	<3	<100	80
MW10_20141125 411435-03	<1	<1	<1	<3	<100	79
MW11_20141125 cf 411435-04	<1	<1	<1	<3	<100	81
MW12_20141125 hs 411435-05	<1	<1	<1	<3	<100	80
MW13_20141125 411435-06	<1	<1	<1	<3	<100	79
Method Blank 04-2391 MB	<1	<1	<1	<3	<100	77

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411435
Date Extracted: 12/01/14
Date Analyzed: 12/01/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 41-152)
MW07_20141125 411435-01 1/1.2	520 x	<300	86
MW09_20141125 411435-02 1/1.2	<60	<300	92
MW10_20141125 411435-03 1/1.2	<60	<300	91
MW11_20141125 411435-04	380 x	400 x	67
MW12_20141125 411435-05 1/1.2	310 x	320 x	81
MW13_20141125 411435-06	370 x	290 x	88
Method Blank 04-2404 MB	<50	<250	92

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	MW07_20141125 f pc	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411435
Date Extracted:	12/04/14	Lab ID:	411435-01
Date Analyzed:	12/04/14	Data File:	411435-01.023
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	86	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	1.06
Arsenic	4.69
Cadmium	<1
Lead	<1

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	MW09_20141125 f pc	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411435
Date Extracted:	12/04/14	Lab ID:	411435-02
Date Analyzed:	12/04/14	Data File:	411435-02.024
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125
Indium	93	60	125
Holmium	101	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Arsenic	1.39
Cadmium	<1
Lead	<1

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	MW10_20141125 f pc	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411435
Date Extracted:	12/04/14	Lab ID:	411435-03
Date Analyzed:	12/04/14	Data File:	411435-03.025
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	93	60	125
Holmium	101	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Arsenic	1.09
Cadmium	<1
Lead	<1

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	MW11_20141125 f pc	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411435
Date Extracted:	12/04/14	Lab ID:	411435-04 x5
Date Analyzed:	12/04/14	Data File:	411435-04 x5.026
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	93	60	125
Holmium	100	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	16.3
Arsenic	21.0
Cadmium	<5
Lead	12.9

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	MW12_20141125 f pc	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411435
Date Extracted:	12/04/14	Lab ID:	411435-05
Date Analyzed:	12/04/14	Data File:	411435-05.027
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	92	60	125
Holmium	100	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Arsenic	5.12
Cadmium	<1
Lead	<1

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	MW13_20141125 f pc	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411435
Date Extracted:	12/04/14	Lab ID:	411435-06
Date Analyzed:	12/04/14	Data File:	411435-06.028
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	86	60	125
Indium	87	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Arsenic	29.7
Cadmium	<1
Lead	<1

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0987-010-01_20141125, F&BI 411435
Date Extracted:	12/04/14	Lab ID:	I4-775 mb
Date Analyzed:	12/04/14	Data File:	I4-775 mb.020
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	104	60	125
Holmium	107	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Arsenic	<1
Cadmium	<1
Lead	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW07_20141125	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411435
Date Extracted:	12/01/14	Lab ID:	411435-01
Date Analyzed:	12/01/14 14:17:24	Data File:	411435-01.053
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	90	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	4.11
Cadmium	<1
Chromium	1.23
Lead	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW09_20141125	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411435
Date Extracted:	12/01/14	Lab ID:	411435-02
Date Analyzed:	12/01/14 14:21:08	Data File:	411435-02.054
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	96	60	125
Holmium	102	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	1.45
Cadmium	<1
Chromium	<1
Lead	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW10_20141125	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411435
Date Extracted:	12/01/14	Lab ID:	411435-03
Date Analyzed:	12/01/14 14:24:50	Data File:	411435-03.055
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	95	60	125
Holmium	101	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	1.30
Cadmium	<1
Chromium	<1
Lead	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW11_20141125	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411435
Date Extracted:	12/01/14	Lab ID:	411435-04
Date Analyzed:	12/01/14 14:44:03	Data File:	411435-04.060
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	119	60	125
Indium	94	60	125
Holmium	101	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	20.3
Cadmium	1.27
Chromium	33.3
Lead	71.6

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW12_20141125	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411435
Date Extracted:	12/01/14	Lab ID:	411435-05
Date Analyzed:	12/01/14 14:32:15	Data File:	411435-05.057
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	97	60	125
Holmium	100	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	4.98
Cadmium	<1
Chromium	<1
Lead	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW13_20141125	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125, F&BI 411435
Date Extracted:	12/01/14	Lab ID:	411435-06
Date Analyzed:	12/01/14 14:35:58	Data File:	411435-06.058
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	93	60	125
Holmium	99	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	32.7
Cadmium	<1
Chromium	1.94
Lead	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0987-010-01_20141125, F&BI 411435
Date Extracted:	12/01/14	Lab ID:	I4-765 mb
Date Analyzed:	12/01/14 13:06:19	Data File:	I4-765 mb.035
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125
Indium	102	60	125
Holmium	104	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Cadmium	<1
Chromium	<1
Lead	<1

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411435
Date Extracted: 12/04/14
Date Analyzed: 12/05/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
MW07_20141125 f 411435-01	<0.1
MW09_20141125 f 411435-02	<0.1
MW10_20141125 f 411435-03	<0.1
MW11_20141125 f 411435-04	<0.1
MW12_20141125 f 411435-05	<0.1
MW13_20141125 f 411435-06	<0.1
Method Blank	<0.1

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411435
Date Extracted: 12/04/14
Date Analyzed: 12/05/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
MW07_20141125 411435-01	<0.1
MW09_20141125 411435-02	<0.1
MW10_20141125 411435-03	<0.1
MW11_20141125 411435-04	0.51
MW12_20141125 411435-05	<0.1
MW13_20141125 411435-06	<0.1
Method Blank	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	MW07_20141125	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125
Date Extracted:	12/01/14	Lab ID:	411435-01 1/2
Date Analyzed:	12/02/14	Data File:	120217.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	50	150
Benzo(a)anthracene-d12	87	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	MW09_20141125	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125
Date Extracted:	12/01/14	Lab ID:	411435-02 1/2
Date Analyzed:	12/02/14	Data File:	120218.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	90	50	150
Benzo(a)anthracene-d12	90	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	MW10_20141125	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125
Date Extracted:	12/01/14	Lab ID:	411435-03 1/2
Date Analyzed:	12/02/14	Data File:	120219.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	90	50	150
Benzo(a)anthracene-d12	87	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	MW11_20141125	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125
Date Extracted:	12/01/14	Lab ID:	411435-04 1/2
Date Analyzed:	12/02/14	Data File:	120220.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	50	150
Benzo(a)anthracene-d12	93	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	MW12_20141125	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125
Date Extracted:	12/01/14	Lab ID:	411435-05 1/2
Date Analyzed:	12/02/14	Data File:	120221.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	88	50	150
Benzo(a)anthracene-d12	92	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	MW13_20141125	Client:	SoundEarth Strategies
Date Received:	11/25/14	Project:	SOU_0987-010-01_20141125
Date Extracted:	12/01/14	Lab ID:	411435-06 1/2
Date Analyzed:	12/02/14	Data File:	120222.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	90	50	150
Benzo(a)anthracene-d12	94	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0987-010-01_20141125
Date Extracted:	12/01/14	Lab ID:	04-2406 mb
Date Analyzed:	12/02/14	Data File:	120215.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	90	50	150
Benzo(a)anthracene-d12	91	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.05
Acenaphthylene	<0.05
Acenaphthene	<0.05
Fluorene	<0.05
Phenanthrene	<0.05
Anthracene	<0.05
Fluoranthene	<0.05
Pyrene	<0.05
Benz(a)anthracene	<0.05
Chrysene	<0.05
Benzo(a)pyrene	<0.05 J
Benzo(b)fluoranthene	<0.05 J
Benzo(k)fluoranthene	<0.05 J
Indeno(1,2,3-cd)pyrene	<0.05 J
Dibenz(a,h)anthracene	<0.05 J
Benzo(g,h,i)perylene	<0.05 J

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411435

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: 411425-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	93	65-118
Toluene	ug/L (ppb)	50	91	72-122
Ethylbenzene	ug/L (ppb)	50	93	73-126
Xylenes	ug/L (ppb)	150	88	74-118
Gasoline	ug/L (ppb)	1,000	94	69-134

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411435

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	97	106	63-142	9

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411435

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	ug/L (ppb)	20	102	104	80-119	2
Arsenic	ug/L (ppb)	10	100	100	80-111	0
Cadmium	ug/L (ppb)	5	103	103	83-113	0
Lead	ug/L (ppb)	10	105	105	83-115	0

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411435

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 411452-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	<1	100	102	60-150	2
Cadmium	ug/L (ppb)	5	<1	101	100	83-116	1
Chromium	ug/L (ppb)	20	<1	102	104	64-132	2
Lead	ug/L (ppb)	10	<1	101	104	79-121	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	91	80-111
Cadmium	ug/L (ppb)	5	96	83-113
Chromium	ug/L (ppb)	20	98	80-119
Lead	ug/L (ppb)	10	94	83-115

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411435

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 411435-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.5	<0.1	100	108	71-125	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.5	104	88-113

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411435

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: 411435-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.5	<0.1	92	91	71-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.5	97	88-113

Date of Report: 12/05/14
Date Received: 11/25/14
Project: SOU_0987-010-01_20141125, F&BI 411435

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	90	91	67-116	1
Acenaphthylene	ug/L (ppb)	1	91	93	65-119	2
Acenaphthene	ug/L (ppb)	1	90	92	66-118	2
Fluorene	ug/L (ppb)	1	94	95	64-125	1
Phenanthrene	ug/L (ppb)	1	88	90	67-120	2
Anthracene	ug/L (ppb)	1	93	93	65-122	0
Fluoranthene	ug/L (ppb)	1	93	94	65-127	1
Pyrene	ug/L (ppb)	1	92	95	62-130	3
Benz(a)anthracene	ug/L (ppb)	1	97	99	60-118	2
Chrysene	ug/L (ppb)	1	95	96	66-125	1
Benzo(b)fluoranthene	ug/L (ppb)	1	91	89	55-135	2
Benzo(k)fluoranthene	ug/L (ppb)	1	89	99	62-125	11
Benzo(a)pyrene	ug/L (ppb)	1	89	91	58-127	2
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	83	83	36-142	0
Dibenz(a,h)anthracene	ug/L (ppb)	1	73	76	37-133	4
Benzo(g,h,i)perylene	ug/L (ppb)	1	79	82	34-135	4

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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

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

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

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

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

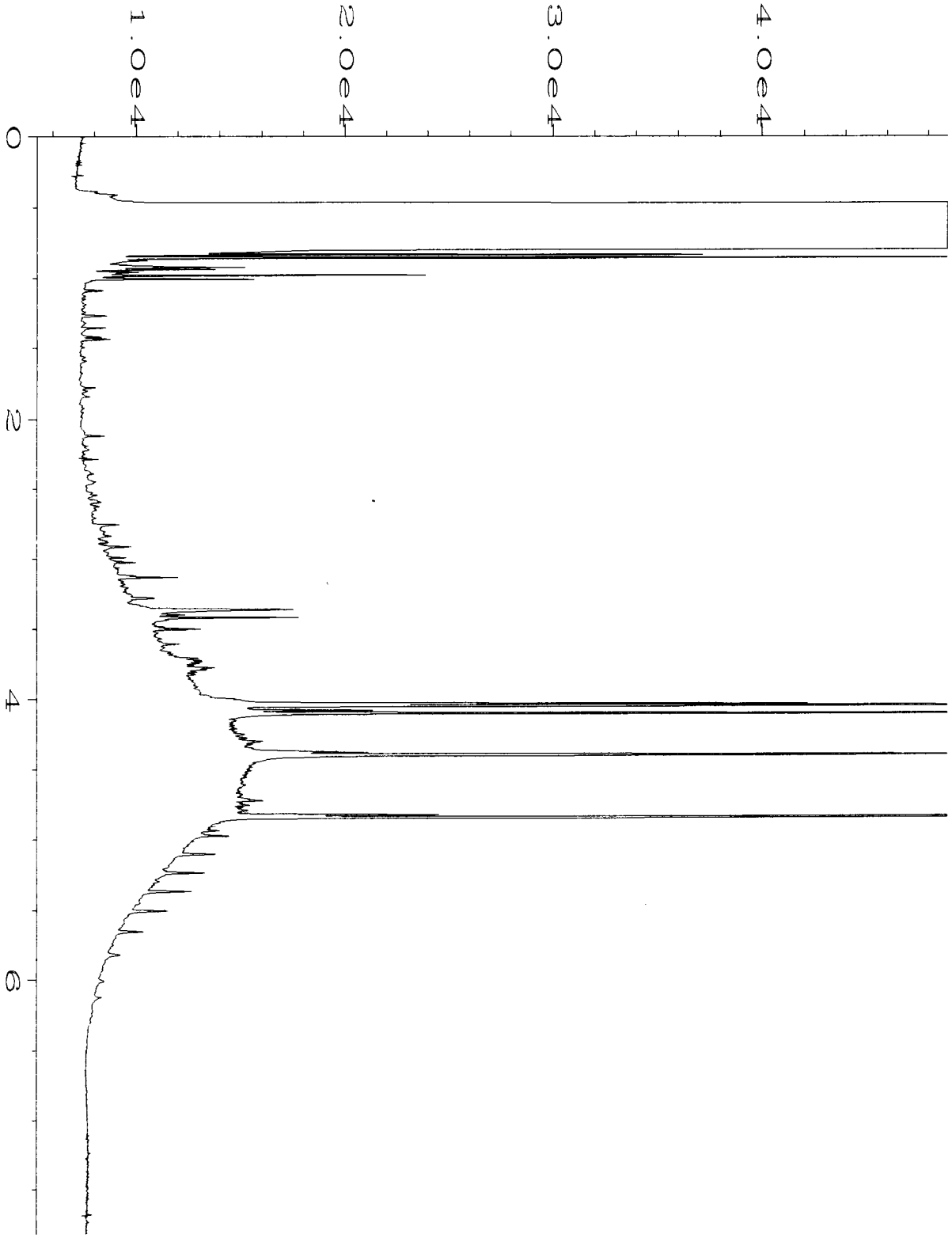
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

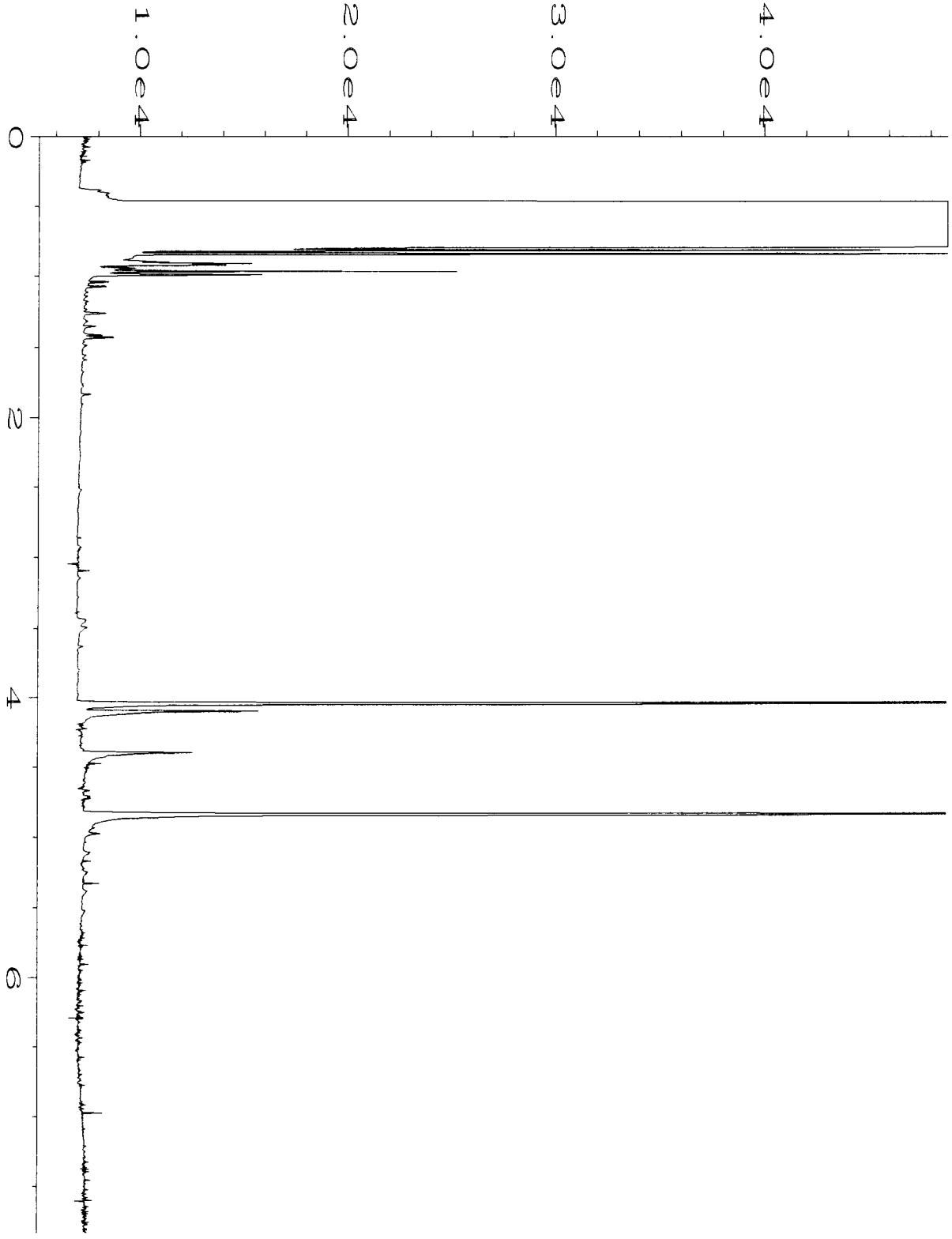
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

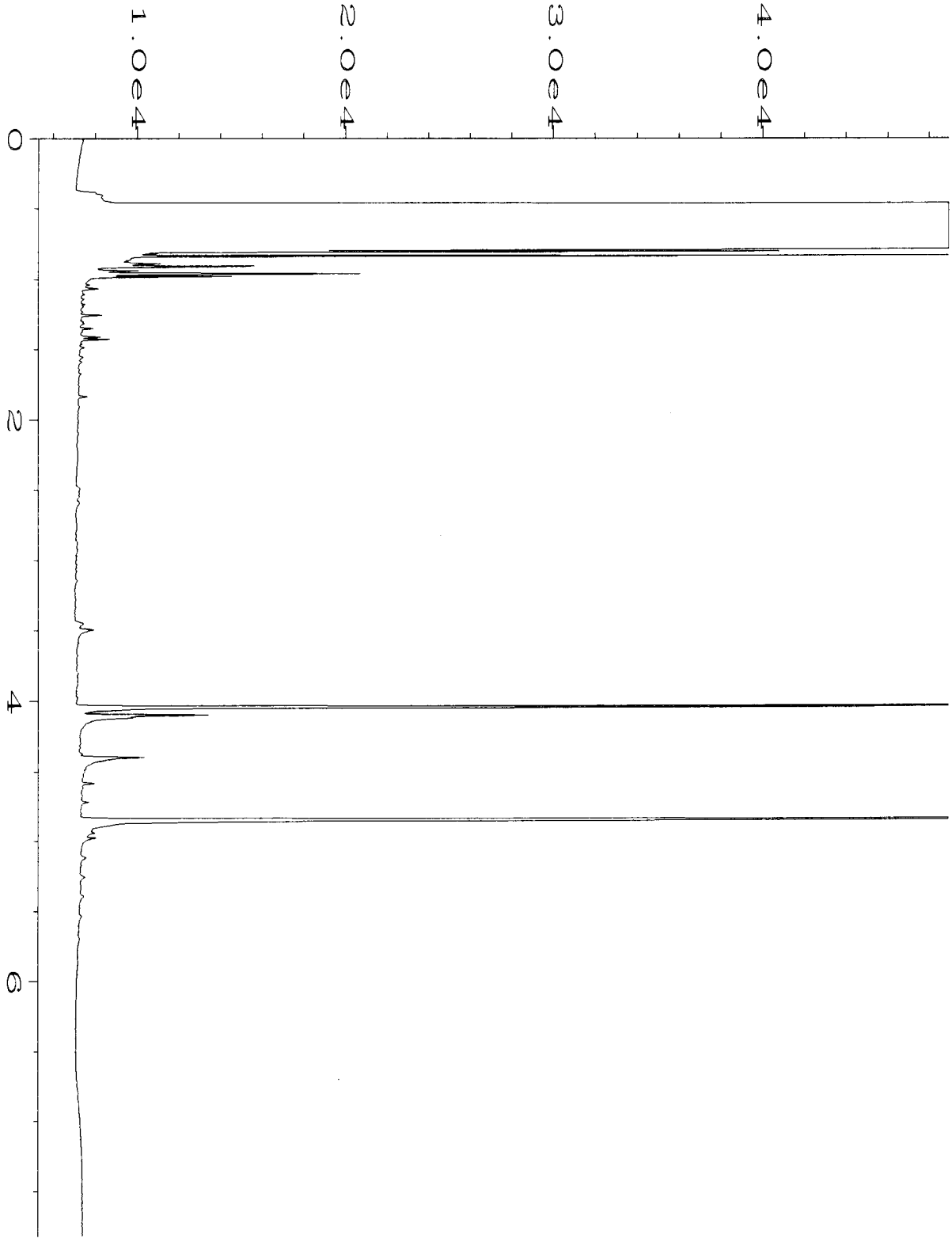
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



Data File Name	: C:\HPCHEM\1\DATA\12-01-14\024F0701.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 24
Sample Name	: 411435-01	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 01 Dec 14 03:55 PM	Instrument Method	: DX.MTH
Report Created on	: 02 Dec 14 10:15 AM	Analysis Method	: DX.MTH



Data File Name	: C:\HPCHEM\1\DATA\12-01-14\025F0701.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 25
Sample Name	: 411435-02	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 01 Dec 14 04:07 PM	Instrument Method	: DX.MTH
Report Created on	: 02 Dec 14 10:15 AM	Analysis Method	: DX.MTH



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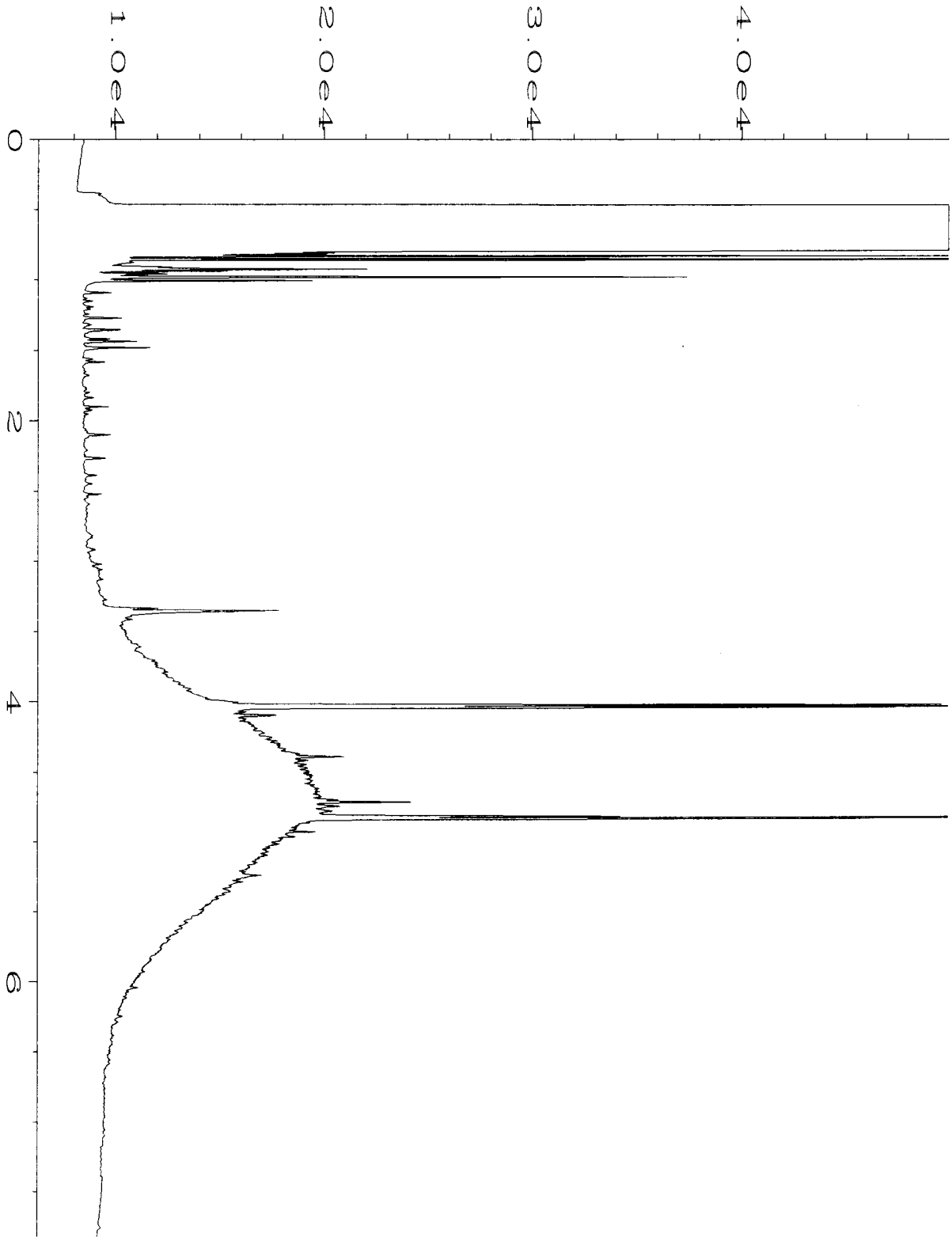
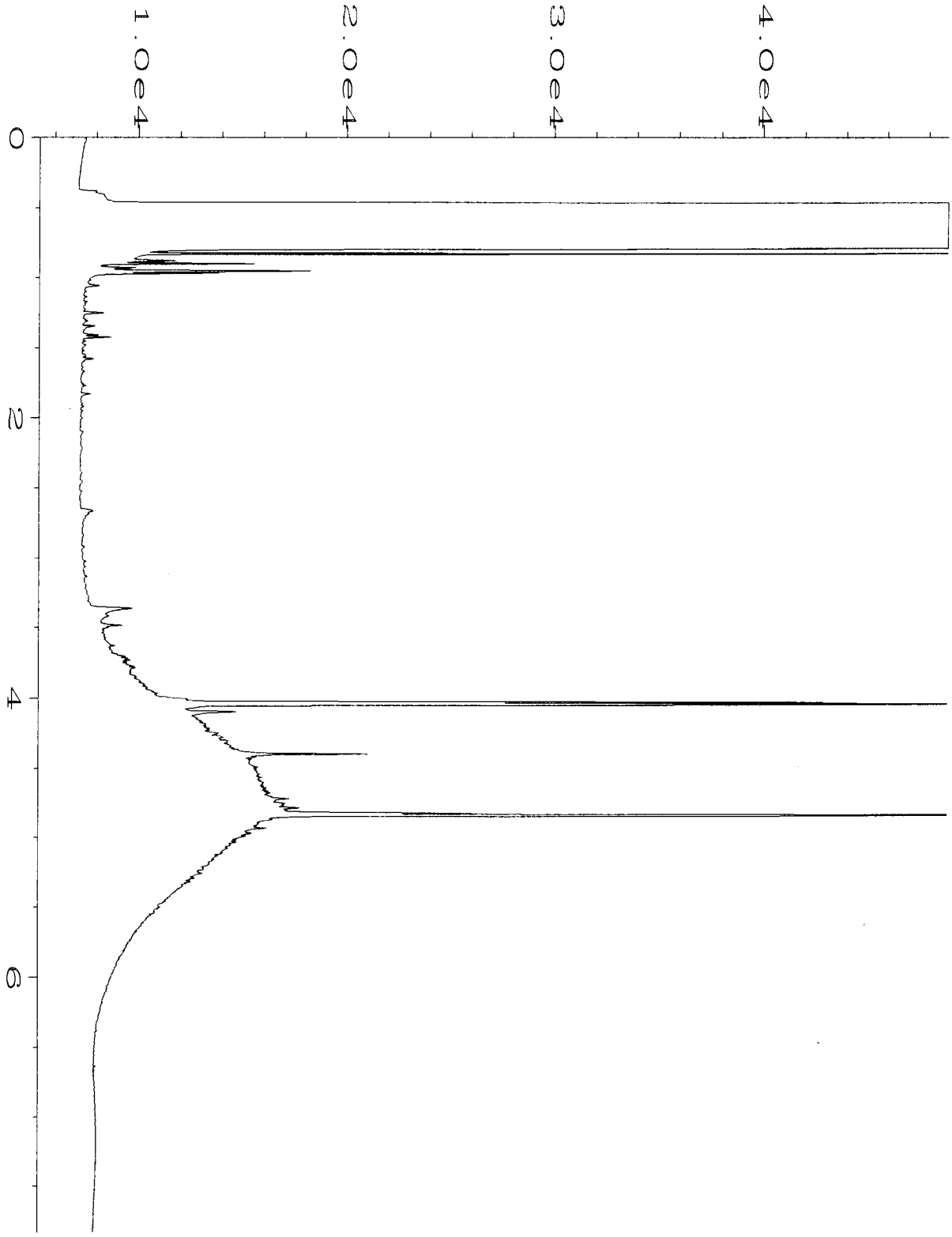
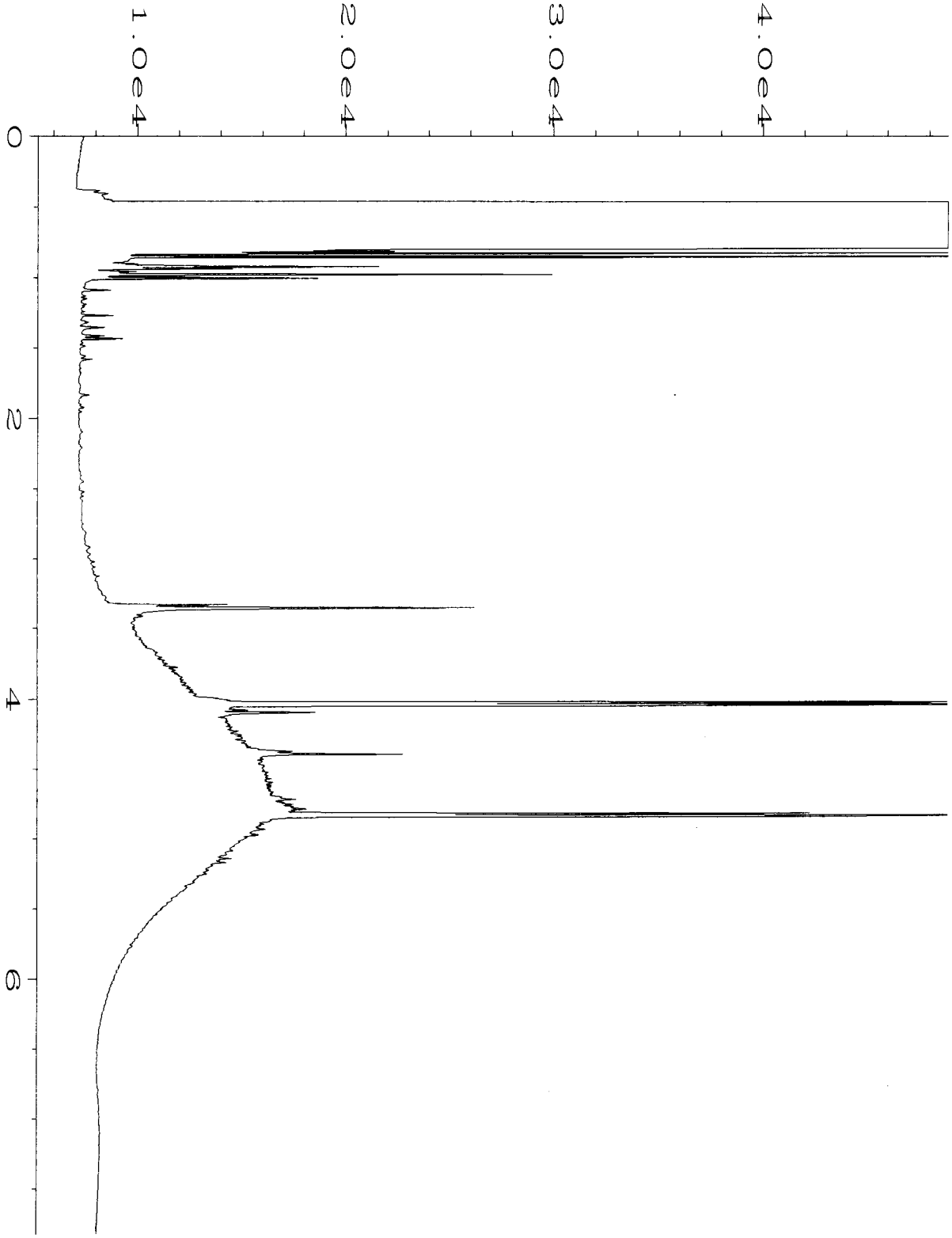
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 26
Sample Name	: 411435-03	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 01 Dec 14 04:19 PM	Instrument Method	: DX.MTH
Report Created on	: 02 Dec 14 10:15 AM	Analysis Method	: DX.MTH



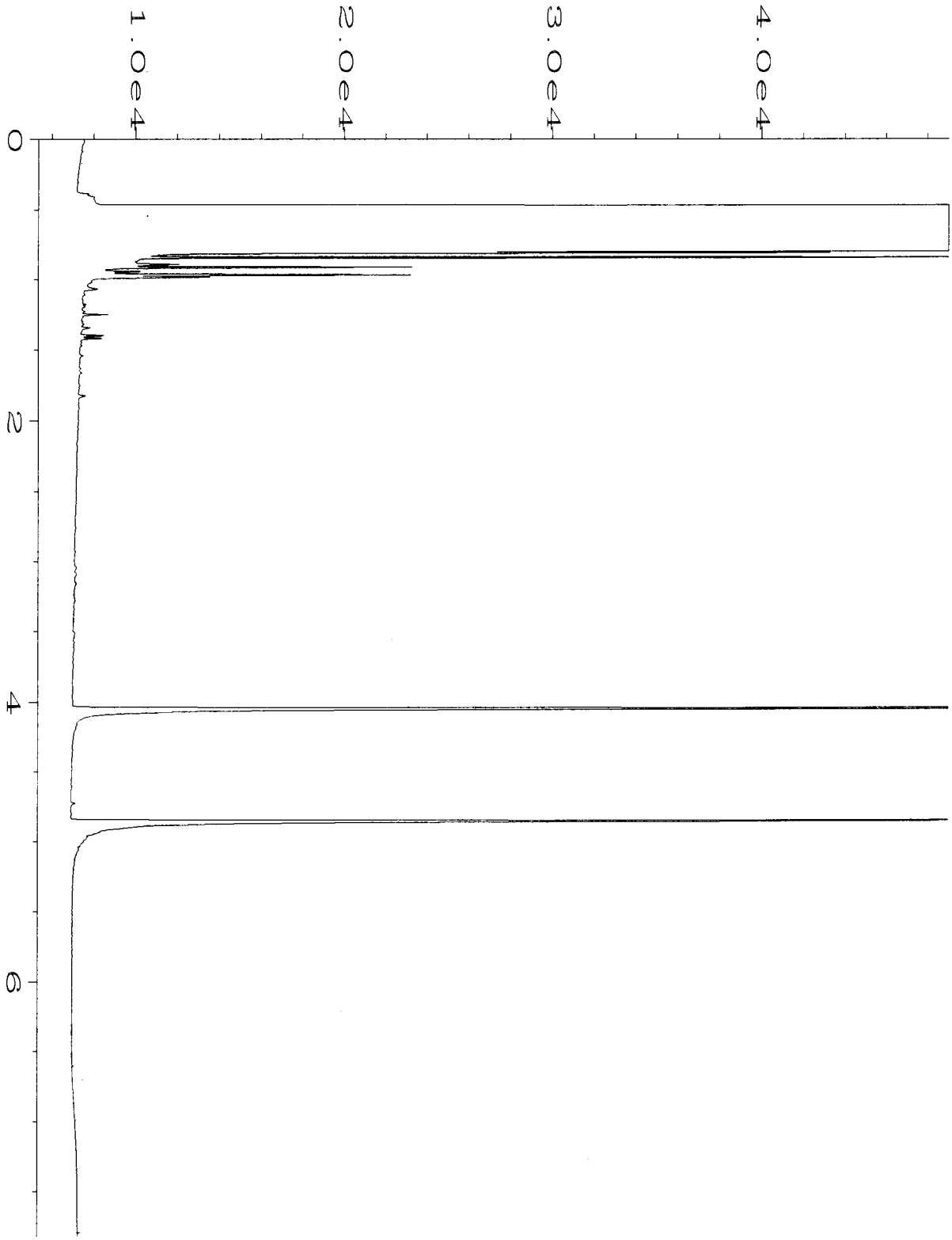
Data File Name	: C:\HPCHEM\1\DATA\12-01-14\027F0801.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 27
Sample Name	: 411435-04	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 8
Acquired on	: 01 Dec 14 06:45 PM	Instrument Method	: DX.MTH
Report Created on	: 02 Dec 14 10:15 AM	Analysis Method	: DX.MTH



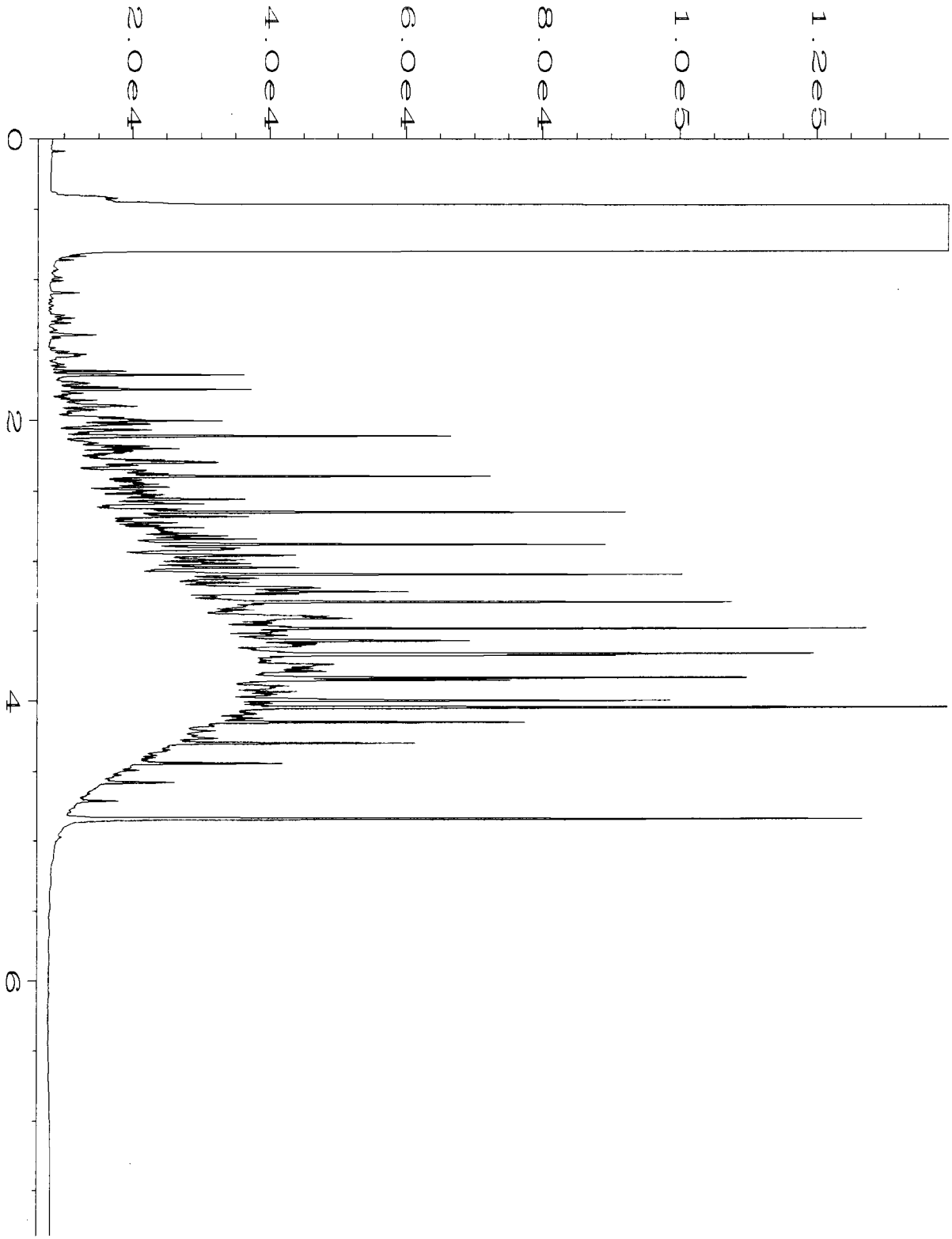
Data File Name	: C:\HPCHEM\1\DATA\12-01-14\028F0701.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 28
Sample Name	: 411435-05	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 01 Dec 14 04:43 PM	Instrument Method	: DX.MTH
Report Created on	: 02 Dec 14 10:15 AM	Analysis Method	: DX.MTH



Data File Name	: C:\HPCHEM\1\DATA\12-01-14\029F0701.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 29
Sample Name	: 411435-06	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 01 Dec 14 04:55 PM	Instrument Method	: DX.MTH
Report Created on	: 02 Dec 14 10:15 AM	Analysis Method	: DX.MTH



Data File Name	: C:\HPCHEM\1\DATA\12-01-14\019F0501.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 19
Sample Name	: 04-2404 mb	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 5
Acquired on	: 01 Dec 14 02:33 PM	Instrument Method	: DX.MTH
Report Created on	: 02 Dec 14 10:14 AM	Analysis Method	: DX.MTH



Data File Name	: C:\HPCHEM\1\DATA\12-01-14\003F0201.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC1	Vial Number	: 3
Sample Name	: 500 Dx 43-199B	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 2
Acquired on	: 01 Dec 14 08:57 AM	Instrument Method	: DX.MTH
Report Created on	: 02 Dec 14 10:14 AM	Analysis Method	: DX.MTH

411435

SAMPLE CHAIN OF CUSTODY

MF 11-25-14

Day/12/ALS

Send Report to Audrey Hackett

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.	PO #
Myers Way Property	0987-010-01

REMARKS *
* lab must filter samples PRIOR to MTCA 5 Metals.

Page # 1 of 1

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

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED: NWTPH-Dx DRPH ORPH	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	MTCA 5 Metals 200.8 *	PAHs 8270C		Notes
MW07_20141125	MW07		01 A-F	11/25/14	1353	W	6	X	X	X			X	X		
MW09_20141125	MW09		02	11/25/14	1017	W	6	X	X	X			X	X		
MW10_20141125	MW10		03	11/25/14	1003	W	6	X	X	X			X	X		
MW11_20141125	MW11		04	11/25/14	1105	W	6	X	X	X			X	X		
MW12_20141125	MW12		05	11/25/14	1153	W	6	X	X	X			X	X		
MW13_20141125	MW13		06	11/25/14	1227	W	6	X	X	X			X	X		

11/25/2014 KD

Samples received at 8 °C

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

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Kristine Sommer	SoundEarth Strategies, Inc.	11/25/14	
Received by:		Phil A Collins	Fed ex office	11/25/14	4:13
Relinquished by:					
Received by:		Jon Shinman	FBI	11/25/14	17:10