LDWSF
4.8.5
12/4/13

Sanga, Ravi

From: Philip Spadaro [pspadaro@intell-group.com]
Sent: Wednesday, December 04, 2013 7:36 PM
To: Sanga, Ravi
Cc: Tom Colligan (Tom.Colligan@floydsnider.com); 'Ernst, William D' (william.d.ernst@boeing.com); (b) (6) Dee Gardner (dgardner@soundearthinc.com); Miles Dyer (mdyer@columbuscastings.com)
Subject: Jorgensen - OC data and normalized PCB results
Attachments: JFOS2_Phase 4A_InterimSD_20131127_OC_rev.pdf; SOU_0995-001-04_20131009, FBI 310154_OC.PDF; Fremont_1311222_Final_v2_TOC.PDF

Ravi –

Please find attached the analytical chemistry reports from the angle borings including the TOC results and normalized PCB results as appropriate. The analytical laboratory has normalized the results for all detectible results of TOC. As you are aware, normalization for comparison to the SMS are only applicable within a range of >0.5% and <4% per Michelsen TC, Bragdon-Cook K. 1993. We've also attached a table that includes the normalized results that fall within that range. Values in the table outside of that range are reported as dry weight totals.

Please let us know if you have questions.
Best regards.
Philip

******PLEASE NOTE NEW ADDRESS******

Philip Spadaro, Principal Scientist and Managing Director

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SoundEarth Strategies

SUMMARY OF SOIL ANALYTICAL RESULTS
FRIEDMAN AND BRUYA, INC. REPORT NO. 310154
JORGENSEN FORGE OUTFALL SITE
SECOND MODIFICATION, PHASE 4A
SEATTLE, WA
CERCLA DOCKET NO. 10-2011-0017

TheIntelligenceGroup™
RESEARCH • INVESTIGATIONS • FORENSICS

APPROX. ELEV. (feet MLLW)	ANGLE BORING ID JFOS2-BH01			ANGLE BORING ID JFOS2-BH03			ANGLE BORING ID JFOS2-BH04			ANGLE BORING ID JFOS2-BH05			APPROX. ELEV. (feet MLLW)
	SOIL SAMPLE ID	TOTAL PCBs[1] (mg/kg dry wt)	OC-NORMALIZED TOTAL PCBs (mg/kg OC)	SOIL SAMPLE ID	TOTAL PCBs[1] (mg/kg dry wt)	OC-NORMALIZED TOTAL PCBs (mg/kg OC)	SOIL SAMPLE ID	TOTAL PCBs[1] (mg/kg dry wt)	OC-NORMALIZED TOTAL PCBs (mg/kg OC)	SOIL SAMPLE ID	TOTAL PCBs[1] (mg/kg dry wt)	OC-NORMALIZED TOTAL PCBs (mg/kg OC)	
0.6	JFOS2-BH01-16	**15**	**2,300**	--	--	--	--	--	--	--	--	--	0.6
-0.2	--	--	--	--	--	--	JFOS2-BH04-17	**270**	**14,000**	--	--	--	-0.2
-1.1	JFOS2-BH01-18	<0.02	TOC <0.5% [a]	JFOS2-BH03-18	**280**	**11,000**	--	--	--	JFOS2-BH05-18	**2.7**	TOC >4% [a]	-1.1
-2.0	--	--	--	--	--	--	JFOS2-BH04-19 (Duplicate)	**160**	**10,000**	--	--	--	-2.0
-2.8	JFOS2-BH01-20	0.17	TOC <0.5% [a]	JFOS2-BH03-20	**560**	TOC >4% [a]	--	--	--	JFOS2-BH05-20 (Duplicate)	**11**	**300**	-2.8
-3.7	--	--	--	--	--	--	JFOS2-BH04-21	**34**	**3,800**	--	--	--	-3.7
-4.6	JFOS2-BH01-22	0.074	TOC <0.5% [a]	JFOS2-BH03-22	**110**	**3,300**	--	--	--	JFOS2-BH05-22	**2.9**	TOC >4% [a]	-4.6
-5.4	--	--	--	--	--	--	JFOS2-BH04-23	**140**	**6,000**	--	--	--	-5.4
-6.3	JFOS2-BH01-24	0.034 js	TOC <0.5% [a]	JFOS2-BH03-24	0.18	TOC <0.5% [a]	--	--	--	JFOS2-BH05-24	<0.02	TOC >4% [a]	-6.3
-7.2	--	--	--	--	--	--	--	--	--	--	--	--	-7.2
-8.0	JFOS2-BH01-26	NA	NA	JFOS2-BH03-26	**14**	TOC <0.5% [a]	--	--	--	--	--	--	-8.0
-8.9	--	--	--	--	--	--	--	--	--	--	--	--	-8.9
-9.7	JFOS2-BH01-28	NA	NA	JFOS2-BH03-28	0.43	TOC <0.5% [a]	--	--	--	JFOS2-BH05-28	**4.9**	**150**	-9.7
-10.6	--	--	--	--	--	--	--	--	--	--	--	--	-10.6
-11.5	JFOS2-BH01-30	NA	NA	JFOS2-BH03-30	0.055	TOC <0.5% [a]	JFOS2-BH04-30	**93**	**8,670**	JFOS2-BH05-30	**29**	**2,230**	-11.5
-12.3	--	--	--	--	--	--	--	--	--	--	--	--	-12.3
-13.2	--	--	--	JFOS2-BH03-32	<0.02	TOC <0.5% [a]	JFOS2-BH04-32	0.085	TOC <0.5% [a]	--	--	--	-13.2
-14.1	--	--	--	--	--	--	--	--	--	--	--	--	-14.1
-14.9	--	--	--	JFOS2-BH03-34	0.044	TOC <0.5% [a]	JFOS2-BH04-34	0.089	TOC <0.5% [a]	JFOS2-BH05-34	**2.0**	TOC <0.5% [a]	-14.9
-15.8	--	--	--	--	--	--	--	--	--	JFOS2-BH05-35	<0.1	TOC <0.5% [a]	-15.8

NOTES:

signifies total PCB concentration less than or equal to 1 mg/kg, or not detected
signifies total PCB concentration greater than 1 mg/kg
signifies total PCB concentration greater than the TSCA limit of 50 mg/kg
signifies OC-normalized PCB concentration exceeds the SMS SQS Chemical Criteria of 12 mg/kg OC

BOLD text signifies at least one PCB Aroclor was detected above its laboratory reporting limit
Laboratory analysis by Friedman & Bruya of Seattle, Washington
[1] PCBs by EPA Method 8082A
[a] Michelsen TC, Bragdon-Cook K. 1993. Technical information memorandum: Organic carbon normalization of sediment data. Washington Department of Ecology, Olympia, WA.

LABORATORY DATA QUALIFIERS:

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

ABBREVIATIONS:

-- = sample not recovered from this depth interval
< = analyte not detected at or above the reporting limit
EPA = U.S. Environmental Protection Agency
ID = identification
mg/kg dry wt = milligrams per kilogram dry weight
mg/kg OC = milligrams per kilogram, organic-carbon normalized
MLLW = mean lower low water
NA = Not analyzed
OC = organic carbon
PCB = polychlorinated biphenyl
SMS = Sediment Management Standards, WAC 173-204
SQS = Sediment Quality Standards
TOC <0.5% = OC concentration less than 0.5 percent; normalization not appropriate
TOC >4% = OC concentration greater than 4 percent; normalization not appropriate
TSCA = Toxic Substances Control Act, 15 USC (C. 53) 2601-2692
USC = United States Code
WAC = Washington Adminstrative Code

PRELIMINARY DRAFT FOR COORDINATION PURPOSES

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 310154
Lab ID: 1311222

November 25, 2013

Attention Michael Erdahl:

Fremont Analytical, Inc. received 56 sample(s) on 11/20/2013 for the analyses presented in the following report.

Total Organic Carbon by EPA Method 9060

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

M. Clements

Michelle Clements
Sr. Chemist / Lab Manager

Fremont Analytical

Date: *11/25/2013*

CLIENT: Friedman & Bruya
Project: 310154
Lab Order: 1311222

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1311222-001	JFOS2-BH01-02	10/08/2013 9:00 AM	11/20/2013 10:30 AM
1311222-002	JFOS2-BH01-04	10/08/2013 9:05 AM	11/20/2013 10:30 AM
1311222-003	JFOS2-BH01-06	10/08/2013 9:10 AM	11/20/2013 10:30 AM
1311222-004	JFOS2-BH01-08	10/08/2013 9:15 AM	11/20/2013 10:30 AM
1311222-005	JFOS2-BH01-12	10/08/2013 9:20 AM	11/20/2013 10:30 AM
1311222-006	JFOS2-BH01-14	10/08/2013 9:25 AM	11/20/2013 10:30 AM
1311222-007	JFOS2-BH01-16	10/08/2013 9:30 AM	11/20/2013 10:30 AM
1311222-008	JFOS2-BH01-18	10/08/2013 9:35 AM	11/20/2013 10:30 AM
1311222-009	JFOS2-BH01-20	10/08/2013 9:40 AM	11/20/2013 10:30 AM
1311222-010	JFOS2-BH01-22	10/08/2013 9:45 AM	11/20/2013 10:30 AM
1311222-011	JFOS2-BH01-24	10/08/2013 9:50 AM	11/20/2013 10:30 AM
1311222-012	JFOS2-BH01-26	10/08/2013 9:55 AM	11/20/2013 10:30 AM
1311222-013	JFOS2-BH01-28	10/08/2013 10:00 AM	11/20/2013 10:30 AM
1311222-014	JFOS2-BH01-30	10/08/2013 10:05 AM	11/20/2013 10:30 AM
1311222-015	JFOS2-BH02-02	10/08/2013 10:35 AM	11/20/2013 10:30 AM
1311222-016	JFOS2-BH02-07	10/08/2013 10:40 AM	11/20/2013 10:30 AM
1311222-017	JFOS2-BH02-12	10/08/2013 12:15 PM	11/20/2013 10:30 AM
1311222-018	JFOS2-BH02-16	10/08/2013 12:20 PM	11/20/2013 10:30 AM
1311222-019	JFOS2-BH03-03	10/08/2013 12:30 PM	11/20/2013 10:30 AM
1311222-020	JFOS2-BH02-10	10/08/2013 10:45 AM	11/20/2013 10:30 AM
1311222-021	JFOS2-BH03-07	10/08/2013 12:35 PM	11/20/2013 10:30 AM
1311222-022	JFOS2-BH03-12	10/08/2013 12:40 PM	11/20/2013 10:30 AM
1311222-023	JFOS2-BH03-18	10/08/2013 12:45 PM	11/20/2013 10:30 AM
1311222-024	JFOS2-BH03-20	10/08/2013 12:50 PM	11/20/2013 10:30 AM
1311222-025	JFOS2-BH03-22	10/08/2013 12:55 PM	11/20/2013 10:30 AM
1311222-026	JFOS2-BH03-24	10/08/2013 1:00 PM	11/20/2013 10:30 AM
1311222-027	JFOS2-BH03-26	10/08/2013 1:05 PM	11/20/2013 10:30 AM
1311222-028	JFOS2-BH03-28	10/08/2013 1:10 PM	11/20/2013 10:30 AM
1311222-029	JFOS2-BH03-30	10/08/2013 1:15 PM	11/20/2013 10:30 AM
1311222-030	JFOS2-BH03-32	10/08/2013 2:00 PM	11/20/2013 10:30 AM
1311222-031	JFOS2-BH03-34	10/08/2013 2:05 PM	11/20/2013 10:30 AM
1311222-032	JFOS2-BH04-02	10/08/2013 2:20 PM	11/20/2013 10:30 AM
1311222-033	JFOS2-BH04-07	10/08/2013 2:25 PM	11/20/2013 10:30 AM
1311222-034	JFOS2-BH04-12	10/08/2013 2:30 PM	11/20/2013 10:30 AM
1311222-035	JFOS2-BH04-12(Dup)	10/08/2013 2:35 PM	11/20/2013 10:30 AM
1311222-036	JFOS2-BH04-17	10/08/2013 2:40 PM	11/20/2013 10:30 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya
Project: 310154
Lab Order: 1311222

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1311222-037	JFOS2-BH04-19	10/08/2013 2:55 PM	11/20/2013 10:30 AM
1311222-038	JFOS2-BH04-19(Dup)	10/08/2013 2:50 PM	11/20/2013 10:30 AM
1311222-039	JFOS2-BH04-21	10/08/2013 2:55 PM	11/20/2013 10:30 AM
1311222-040	JFOS2-BH04-23	10/08/2013 3:00 PM	11/20/2013 10:30 AM
1311222-041	JFOS2-BH04-30	10/08/2013 3:05 PM	11/20/2013 10:30 AM
1311222-042	JFOS2-BH04-32	10/08/2013 3:15 PM	11/20/2013 10:30 AM
1311222-043	JFOS2-BH04-34	10/08/2013 3:20 PM	11/20/2013 10:30 AM
1311222-044	JFOS2-BH05-02	10/08/2013 3:40 PM	11/20/2013 10:30 AM
1311222-045	JFOS2-BH05-07	10/08/2013 3:45 PM	11/20/2013 10:30 AM
1311222-046	JFOS2-BH05-12	10/08/2013 4:00 PM	11/20/2013 10:30 AM
1311222-047	JFOS2-BH05-14	10/08/2013 4:05 PM	11/20/2013 10:30 AM
1311222-048	JFOS2-BH05-18	10/08/2013 4:10 PM	11/20/2013 10:30 AM
1311222-049	JFOS2-BH05-20	10/08/2013 4:15 PM	11/20/2013 10:30 AM
1311222-050	JFOS2-BH05-20(Dup)	10/08/2013 4:20 PM	11/20/2013 10:30 AM
1311222-051	JFOS2-BH05-22	10/08/2013 4:25 PM	11/20/2013 10:30 AM
1311222-052	JFOS2-BH05-24	10/08/2013 4:30 PM	11/20/2013 10:30 AM
1311222-053	JFOS2-BH05-28	10/08/2013 4:35 PM	11/20/2013 10:30 AM
1311222-054	JFOS2-BH05-30	10/08/2013 4:40 PM	11/20/2013 10:30 AM
1311222-055	JFOS2-BH05-34	10/08/2013 4:45 PM	11/20/2013 10:30 AM
1311222-056	JFOS2-BH05-35	10/08/2013 4:50 PM	11/20/2013 10:30 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **1311222**

Date: **11/25/2013**

CLIENT: Friedman & Bruya
Project: 310154

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Analytical Report

WO#: **1311222**
Date Reported: **11/25/2013**

CLIENT: Friedman & Bruya
Project: 310154

Lab ID: 1311222-007 **Collection Date:** 10/8/2013 9:30:00 AM
Client Sample ID: **JFOS2-BH01-16** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	0.642	0.0500	H	%-dry	1	11/21/2013 3:17:23 PM

Lab ID: 1311222-008 **Collection Date:** 10/8/2013 9:35:00 AM
Client Sample ID: **JFOS2-BH01-18** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	ND	0.0500	H	%-dry	1	11/21/2013 3:36:23 PM

Lab ID: 1311222-009 **Collection Date:** 10/8/2013 9:40:00 AM
Client Sample ID: **JFOS2-BH01-20** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	ND	0.0500	H	%-dry	1	11/21/2013 3:48:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Analytical Report

WO#: **1311222**
Date Reported: **11/25/2013**

CLIENT: Friedman & Bruya
Project: 310154

Lab ID: 1311222-010 **Collection Date:** 10/8/2013 9:45:00 AM
Client Sample ID: **JFOS2-BH01-22** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	ND	0.0500	H	%-dry	1	11/21/2013 4:07:23 PM

Lab ID: 1311222-011 **Collection Date:** 10/8/2013 9:50:00 AM
Client Sample ID: **JFOS2-BH01-24** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	ND	0.0500	H	%-dry	1	11/21/2013 4:27:23 PM

Lab ID: 1311222-023 **Collection Date:** 10/8/2013 12:45:00 PM
Client Sample ID: **JFOS2-BH03-18** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	2.65	0.0500	H	%-dry	1	11/21/2013 4:44:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Analytical Report

WO#: **1311222**
Date Reported: **11/25/2013**

CLIENT: Friedman & Bruya
Project: 310154

Lab ID: 1311222-024 **Collection Date:** 10/8/2013 12:50:00 PM
Client Sample ID: JFOS2-BH03-20 **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	7.93	0.0500	EH	%-dry	1	11/22/2013 11:34:23 AM

Lab ID: 1311222-025 **Collection Date:** 10/8/2013 12:55:00 PM
Client Sample ID: JFOS2-BH03-22 **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	3.29	0.0500	H	%-dry	1	11/22/2013 11:55:23 AM

Lab ID: 1311222-026 **Collection Date:** 10/8/2013 1:00:00 PM
Client Sample ID: JFOS2-BH03-24 **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	ND	0.0500	H	%-dry	1	11/21/2013 11:46:23 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Analytical Report

WO#: **1311222**
Date Reported: **11/25/2013**

CLIENT: Friedman & Bruya
Project: 310154

Lab ID: 1311222-027 **Collection Date:** 10/8/2013 1:05:00 PM
Client Sample ID: **JFOS2-BH03-26** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	0.142	0.0500	H	%-dry	1	11/22/2013 12:23:23 PM

Lab ID: 1311222-028 **Collection Date:** 10/8/2013 1:10:00 PM
Client Sample ID: **JFOS2-BH03-28** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	ND	0.0500	H	%-dry	1	11/21/2013 12:56:23 PM

Lab ID: 1311222-029 **Collection Date:** 10/8/2013 1:15:00 PM
Client Sample ID: **JFOS2-BH03-30** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	ND	0.0500	H	%-dry	1	11/21/2013 1:08:23 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Analytical Report

WO#: **1311222**
Date Reported: **11/25/2013**

CLIENT: Friedman & Bruya
Project: 310154

Lab ID: 1311222-030 **Collection Date:** 10/8/2013 2:00:00 PM
Client Sample ID: **JFOS2-BH03-32** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	ND	0.0500	H	%-dry	1	11/21/2013 1:20:23 PM

Lab ID: 1311222-031 **Collection Date:** 10/8/2013 2:05:00 PM
Client Sample ID: **JFOS2-BH03-34** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	ND	0.0500	H	%-dry	1	11/21/2013 1:40:23 PM

Lab ID: 1311222-036 **Collection Date:** 10/8/2013 2:40:00 PM
Client Sample ID: **JFOS2-BH04-17** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	1.97	0.0500	H	%-dry	1	11/22/2013 1:10:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Analytical Report

WO#: **1311222**
Date Reported: **11/25/2013**

CLIENT: Friedman & Bruya
Project: 310154

Lab ID: 1311222-037 **Collection Date:** 10/8/2013 2:55:00 PM
Client Sample ID: **JFOS2-BH04-19** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	1.88	0.0500	H	%-dry	1	11/22/2013 1:27:23 PM

Lab ID: 1311222-038 **Collection Date:** 10/8/2013 2:50:00 PM
Client Sample ID: **JFOS2-BH04-19(Dup)** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	1.53	0.0500	H	%-dry	1	11/22/2013 1:48:23 PM

Lab ID: 1311222-039 **Collection Date:** 10/8/2013 2:55:00 PM
Client Sample ID: **JFOS2-BH04-21** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	0.887	0.0500	H	%-dry	1	11/22/2013 2:06:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Analytical Report

WO#: **1311222**
Date Reported: **11/25/2013**

CLIENT: Friedman & Bruya
Project: 310154

Lab ID: 1311222-040 **Collection Date:** 10/8/2013 3:00:00 PM
Client Sample ID: **JFOS2-BH04-23** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5960		Analyst: PH
Total Organic Carbon	2.32	0.0500	H	%-dry	1	11/25/2013 2:37:47 PM

Lab ID: 1311222-041 **Collection Date:** 10/8/2013 3:05:00 PM
Client Sample ID: **JFOS2-BH04-30** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5960		Analyst: PH
Total Organic Carbon	1.08	0.0500	H	%-dry	1	11/22/2013 2:45:47 PM

Lab ID: 1311222-042 **Collection Date:** 10/8/2013 3:15:00 PM
Client Sample ID: **JFOS2-BH04-32** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	ND	0.0500	H	%-dry	1	11/21/2013 1:51:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Analytical Report

WO#: **1311222**
Date Reported: **11/25/2013**

CLIENT: Friedman & Bruya
Project: 310154

Lab ID: 1311222-043 **Collection Date:** 10/8/2013 3:20:00 PM
Client Sample ID: **JFOS2-BH04-34** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5958		Analyst: PH
Total Organic Carbon	0.154	0.0500	H	%-dry	1	11/21/2013 2:18:23 PM

Lab ID: 1311222-048 **Collection Date:** 10/8/2013 4:10:00 PM
Client Sample ID: **JFOS2-BH05-18** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5960		Analyst: PH
Total Organic Carbon	5.40	0.0500	H	%-dry	1	11/22/2013 3:02:47 PM

Lab ID: 1311222-049 **Collection Date:** 10/8/2013 4:15:00 PM
Client Sample ID: **JFOS2-BH05-20** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5960		Analyst: PH
Total Organic Carbon	4.13	0.0500	H	%-dry	1	11/22/2013 3:22:47 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Analytical Report

WO#: **1311222**
Date Reported: **11/25/2013**

CLIENT: Friedman & Bruya
Project: 310154

Lab ID: 1311222-050 **Collection Date:** 10/8/2013 4:20:00 PM
Client Sample ID: **JFOS2-BH05-20(Dup)** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5960		Analyst: PH
Total Organic Carbon	3.63	0.0500	H	%-dry	1	11/22/2013 3:58:47 PM

Lab ID: 1311222-051 **Collection Date:** 10/8/2013 4:25:00 PM
Client Sample ID: **JFOS2-BH05-22** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5960		Analyst: PH
Total Organic Carbon	4.32	0.0500	H	%-dry	1	11/22/2013 5:46:47 PM

Lab ID: 1311222-052 **Collection Date:** 10/8/2013 4:30:00 PM
Client Sample ID: **JFOS2-BH05-24** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5960		Analyst: PH
Total Organic Carbon	5.98	0.0500	H	%-dry	1	11/25/2013 2:58:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Analytical Report

WO#: **1311222**
Date Reported: **11/25/2013**

CLIENT: Friedman & Bruya
Project: 310154

Lab ID: 1311222-053 **Collection Date:** 10/8/2013 4:35:00 PM
Client Sample ID: **JFOS2-BH05-28** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5960		Analyst: PH
Total Organic Carbon	3.34	0.0500	H	%-dry	1	11/25/2013 3:24:00 PM

Lab ID: 1311222-054 **Collection Date:** 10/8/2013 4:40:00 PM
Client Sample ID: **JFOS2-BH05-30** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5960		Analyst: PH
Total Organic Carbon	1.31	0.0500	H	%-dry	1	11/25/2013 3:48:00 PM

Lab ID: 1311222-055 **Collection Date:** 10/8/2013 4:45:00 PM
Client Sample ID: **JFOS2-BH05-34** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5960		Analyst: PH
Total Organic Carbon	0.282	0.0500	H	%-dry	1	11/22/2013 5:59:47 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Analytical Report

WO#: **1311222**
Date Reported: **11/25/2013**

CLIENT: Friedman & Bruya
Project: 310154

Lab ID: 1311222-056 **Collection Date:** 10/8/2013 4:50:00 PM
Client Sample ID: **JFOS2-BH05-35** **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by EPA Method 9060				Batch ID: 5960		Analyst: PH
Total Organic Carbon	0.185	0.0500	H	%-dry	1	11/25/2013 4:07:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Fremont Analytical

Date: *11/25/2013*

Work Order: 1311222
CLIENT: Friedman & Bruya
Project: 310154

QC SUMMARY REPORT

Total Organic Carbon by EPA Method 9060

Sample ID: **MB-5958** SampType: **MBLK** Units: **%-dry** Prep Date: **11/21/2013** RunNo: **11234**
Client ID: **MBLKS** Batch ID: **5958** Analysis Date: **11/21/2013** SeqNo: **224143**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.0500									

Sample ID: **LCS-5958** SampType: **LCS** Units: **%-dry** Prep Date: **11/21/2013** RunNo: **11234**
Client ID: **LCSS** Batch ID: **5958** Analysis Date: **11/21/2013** SeqNo: **224144**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	0.485	0.0500	0.6510	0	74.5	41.1	157				

Sample ID: **1311222-026ADUP** SampType: **DUP** Units: **%-dry** Prep Date: **11/21/2013** RunNo: **11234**
Client ID: **JFOS2-BH03-24** Batch ID: **5958** Analysis Date: **11/21/2013** SeqNo: **224146**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.0500						0		30	H

Sample ID: **1311222-026AMS** SampType: **MS** Units: **%-dry** Prep Date: **11/21/2013** RunNo: **11234**
Client ID: **JFOS2-BH03-24** Batch ID: **5958** Analysis Date: **11/21/2013** SeqNo: **224147**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	0.784	0.0500	1.000	0.02875	75.5	50.2	118				H

Sample ID: **1311222-026AMSD** SampType: **MSD** Units: **%-dry** Prep Date: **11/21/2013** RunNo: **11234**
Client ID: **JFOS2-BH03-24** Batch ID: **5958** Analysis Date: **11/21/2013** SeqNo: **224148**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	0.762	0.0500	1.000	0.02875	73.4	50.2	118	0.7841	2.81	20	H

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Fremont Analytical

Date: *11/25/2013*

Work Order: 1311222
CLIENT: Friedman & Bruya
Project: 310154

QC SUMMARY REPORT

Total Organic Carbon by EPA Method 9060

Sample ID: **MB-5960** SampType: **MBLK** Units: **%-dry** Prep Date: **11/22/2013** RunNo: **11235**
Client ID: **MBLKS** Batch ID: **5960** Analysis Date: **11/22/2013** SeqNo: **224178**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.0500									

Sample ID: **LCS-5960** SampType: **LCS** Units: **%-dry** Prep Date: **11/22/2013** RunNo: **11235**
Client ID: **LCSS** Batch ID: **5960** Analysis Date: **11/22/2013** SeqNo: **224179**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	0.584	0.0500	0.6510	0	89.6	41.1	157				

Sample ID: **1311222-055ADUP** SampType: **DUP** Units: **%-dry** Prep Date: **11/22/2013** RunNo: **11235**
Client ID: **JFOS2-BH05-34** Batch ID: **5960** Analysis Date: **11/22/2013** SeqNo: **224186**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	0.331	0.0500						0.2820	15.9	30	H

Sample ID: **1311222-055AMS** SampType: **MS** Units: **%-dry** Prep Date: **11/22/2013** RunNo: **11235**
Client ID: **JFOS2-BH05-34** Batch ID: **5960** Analysis Date: **11/22/2013** SeqNo: **224187**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	1.08	0.0500	1.000	0.2820	80.2	50.2	118				H

Sample ID: **1311222-055AMSD** SampType: **MSD** Units: **%-dry** Prep Date: **11/22/2013** RunNo: **11235**
Client ID: **JFOS2-BH05-34** Batch ID: **5960** Analysis Date: **11/22/2013** SeqNo: **224188**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	1.08	0.0500	1.000	0.2820	80.3	50.2	118	1.084	0.0922	20	H

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Fremont Analytical

Date: *11/25/2013*

Work Order: 1311222
CLIENT: Friedman & Bruya
Project: 310154

QC SUMMARY REPORT

Total Organic Carbon by EPA Method 9060

Sample ID: **CCV-5960C**	SampType: **CCV**	Units: **%-dry**	Prep Date: **11/25/2013**	RunNo: **11235**
Client ID: **CCV**	Batch ID: **R11235**		Analysis Date: **11/25/2013**	SeqNo: **225248**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	1.00	0.0500	1.000	0	100	85	115				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Fremont Analytical

Sample Log-In Check List

Client Name:	**FB**	Work Order Number:	**1311222**
Logged by:	**Chelsea Ward**	Date Received:	**11/20/2013 10:30:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
5. Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Required ☐
6. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
7. Were all coolers received at a temperature of >0°C to 10.0°C Yes ☑ No ☐ NA ☐
8. Sample(s) in proper container(s)? Yes ☑ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
10. Are samples properly preserved? Yes ☑ No ☐
11. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
12. Is the headspace in the VOA vials? Yes ☐ No ☐ NA ☑
13. Did all samples containers arrive in good condition(unbroken)? Yes ☑ No ☐
14. Does paperwork match bottle labels? Yes ☑ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
16. Is it clear what analyses were requested? Yes ☑ No ☐
17. Were all holding times able to be met? Yes ☐ No ☑

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

No Trip Blank with samples.

Item Information

Item #	Temp °C	Condition
Cooler	3.9	Good
Sample	5.2	Good

1311224

SAMPLE CHAIN OF CUSTODY

ME 10-9-13

Page # 1 of 6

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

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

SAMPLERS (signature): Chris Cass

PROJECT: Jorgense 310154 ...se 4A

PO # C-656 ~~0995-001-04~~

REMARKS: ...013 ME

Hold ★ Run TOC only. Return Samples 2 Day TAT ★

TURNAROUND TIME
Standard (2 Weeks)
☒ RUSH 3-Day TAT per PG
Rush charges authorized by: ME

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	PCBs by U.S. EPA Method 8082	Total Organic Carbon per 11/14/13							Notes
								ANALYSES REQUESTED								
JFOS2BH01-02	JFOS2BH01	02	01	10-8-13	0900	Soil	1									~~A~~ per DG 10/17/13
JFOS2BH01-04		04	02		0905		1									MG
JFOS2BH01-06		06	03		0910		1									
JFOS2BH01-08		08	04		0915		1									
~~[illegible]~~					~~[illegible]~~											
JFOS2BH01-10		10	05		0920		1									
JFOS2BH01-14		14	06		0925		1						Samples received at 5 °C			
JFOS2BH01-16		16	07		0930		1	X	X							
JFOS2BH01-18		18	08		0935		1	X	X				Samples			
JFOS2BH01-20		20	09		0940		1	X	X							

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	Chris Cass	SoundEarth Strategies, Inc.	10-9-13	0917
	Received by: Nhan Phan	Nhan Phan	FEBI	10/9/13	0917
	Relinquished by: Michael Erdahl	Michael Erdahl	FBI	11/20/13	0940
	Received by: Chelsea Ward	Chelsea Ward	FAI	11/2013	10:30

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1311222

SAMPLE CHAIN OF CUSTODY ME 10-9-13 C05

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FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

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

SAMPLERS (signature): [signature]

PROJECT: Jorgensen 310154 e 4A

PO # C-656 ~~0995-001-01~~

REMARKS: Paid

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

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

ANALYSES REQUESTED

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	PCBs by U.S. EPA Method 8082	Total Organic Carbon							Notes
JFOS2-BH01-22	JFOS2-BH01	22	10	10-8-13	0945	Soil	1	X	X							
JFOS2-BH01-24		24	11		0950		1	X	X							
JFOS2-BH01-26		26	12		0955		1									
JFOS2-BH01-28		28	13		1000		1									
JFOS2-BH01-30		30	14		1005		1									
JFOS2-BH02-02	JFOS2-BH02	02	15		1035		1									
JFOS2-BH02-07		07	16		1040		1									
JFOS2-BH02-12		12	17		1215		1									
JFOS2-BH02-16		16	18		1220		1						Samples received at 5			
JFOS2-BH03-03	JFOS2-BH03	03	19		1230		1									
JFOS2-BH02-10	JFOS2-BH02	10	20		1045											

Friedman & Bruya, Inc.	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
3012 16th Avenue West	Relinquished by: [signature]	Chris Cass	SoundEarth Strategies, Inc.	10-9-13	0917
Seattle, WA 98119-2029	Received by: [signature]	Nhan Phan	FBI	10/9/13	0917
Ph. (206) 285-8282	Relinquished by: [signature]	Michael Erdahl	FBI	11/20/13	9:40
Fax (206) 283-5044	Received by: [signature]	Chelsea Wood	FBI	11/20/13	10:30

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FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

3012 16th Avenue West • Seattle, Washington 98119-2029
(206) 285-8282 • Fax: (206) 283-5044 • e-mail: fbi@somedia.com

SAMPLE CHAIN OF CUSTODY

ME 10-9-13 COS

Page # 3 of 6

SAMPLERS (signature)

PROJ: Jorge 310154 Phase 4A

PO# C-656 ~~9995-001-04~~

REM/

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	PCBs by U.S. EPA Method 8082	Total Organic Carbon							Notes
JFOSD-BH03-07	JFOSDBH03	07	21	10-8-13	1215	Soil	1									
JFOSD-BH03-12	JFOSDBH03	12	22		1240	Soil	1									
JFOSD-BH03-18		18	23		1245		1	X	X							
JFOSD-BH03-20		20	24		1250		1	X	X							
JFOSD-BH03-22		22	25		1255		1	X	X							
JFOSD-BH03-24		24	26		1300		1	X	X							
JFOSD-BH03-26		26	27		1305		1	X	X							
JFOSD-BH03-28		28	28		1310		1	X	X							
JFOSD-BH03-30		30	29		1315		1	X	X							
JFOSD-BH03-32		32	30		1400		1	X	X							

Samples received at 5 °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:	Chris Cass	SoundEarth Strategies, Inc.	10-9-13	0915
Received by:	Nhan Phan	FBI	10/9/13	0917
Relinquished by:	Michael Erdahl	FBI	11/20/13	9:45
Received by:	Chelsea Ward	FBI	11/20/13	10:30

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FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

3012 16th Avenue West • Seattle, Washington 98119-2029
(206) 285-8282 • Fax: (206) 283-5044 • e-mail: fb@somedia.com

SAMPLE CHAIN OF CUSTODY

HE 10-9-13 CO 5

Page # 4 of 6

SAMPLERS (signature)

PROJE 310154

Jorgen ase 4A

PO # C-656 ~~0995-001-01~~

REMAR

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	PCBs by U.S. EPA Method 8082	Total Organic Carbon							Notes
JFOSD-BH03-34	JFOSD-BH03	34	31	10-8-13	1405	Soil	1	X	X							
JFOSD-BH04-02	JFOSD-BH04	02	32		1420		1									
JFOSD-BH04-07	JFOSD-BH04	07	33		1425		1									
JFOSD-BH04-12	JFOSD-BH04	12	34		1430		1									
JFOSD-BH04-12 (Duplicate)	"	12	35		1435		1									
JFOSD-BH04-17	JFOSD-BH04	17	36		1440		1	X	X							
JFOSD-BH04-19	"	19	37		1455		1	X	X							
JFOSD-BH04-19 (Duplicate)	"	19	38		1450		1	X	X							
JFOSD-BH04-21	JFOSD-BH04	21	39		1455		1	X	X							
JFOSD-BH04-23	"	23	40		1500		1	X	X							

ANALYSES REQUESTED

Samples received at 5 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chris Cass	SoundEarth Strategies, Inc.	10-9-13	0917
Received by:	Nhan Phan	FBI	V	V
Relinquished by:	Michael Erdahl	FB	11/20/13	9:41
Received by:	Chelsea Ward	FBI	11/20/13	10:40

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

FORMS\COC\COCDOC

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

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

SAMPLE CHAIN OF CUSTODY

ME 10-9-13

Page # 5 of 6

SAMPLERS (signature): Chris Cass

PROJECT: Jorgenso 310154 se 4A

PO # C456 ~~0905-001-04~~

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	PCBs by U.S. EPA Method 8082	Total Organic Carbon							Notes
JFOSD-BH04-30	JFOSD-BH4	30	41	11-8-13	1505	~~1505~~ Soil	1	X	X							
JFOSD-BH04-32		32	42		1515	Soil	1	X	X							
JFOSD-BH04-34		34	43		1520	Soil	1	X	X							
JFOSD-BH05-02	JFOSD-BH5	02	44		1540		1									
JFOSD-BH05-07	JFOSD-BH05	07	45		1545		1									
JFOSD-BH05-12		12	46		1600		1									
JFOSD-BH05-14		14	47		1615		1									
JFOSD-BH05-18		18	48		1610		1	X	X							
JFOSD-BH05-20		20	49		1615		1	X	X							
JFOSD-BH05-20 (Duplicate)		20	50		1620		1	X	X							

Samples received at 5 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chris Cass	SoundEarth Strategies, Inc.	10-9-13	0917
Received by:	Nhan Phan	FEBI	10/9/13	V
Relinquished by:	Michael Erdahl	FEBI	11/20/13	9:40
Received by:	Chelsea Ward	FEBI	11/20/13	10:30

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SAMPLE CHAIN OF CUSTODY

ME 10-9-13

Page # 6 of 6

SAMPLERS (signature): Chris Cass

PROJE: Jorgen 310154 ase 4A

PO # C65C ~~0915-001-04~~

REMAI: 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	PCBs by U.S. EPA Method 8082	Total Organic Carbon							Notes
JFOSD-BHC5-22	JFOSD BHC5	22	51	10-8-13	1635	Soil	1	X	X							
JFOSD BHC5-24	JFOSD-BHC5	24	52	"	1630		1	X	X							
JFOSD-BHC5-28	JFOSD-BHC5	28	53	"	1635		1	X	X							
JFOSD-BHC5-30	JFOSD-BHC5	30	54	"	1640		1	X	X							
JFOSD BHC5 34		34	55	"	1645		1	X	X							
JFOSD-BHC5 35		35	56	"	1650		1	X	X							
Trip Blank	—	—	1057	—	—	Water	1	X	X							

Samples received at 5 °C

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Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\CO( )C.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Chris Cass	SoundEarth Strategies, Inc.	10-9-13	0912
Received by:		Nhan Phan	FBI	"	"
Relinquished by:		Michael Erdahl	FBI	10/20/13	9:40
Received by:		Chelsea Ward	FBI	10/20/13	10:30

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, 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, 2013

Dee Gardner, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Gardner:

Included are the amended results from the testing of material submitted on October 9, 2013 from the SOU_0995-001-04_20131009, F&BI 310154 project. Per your request, the results have had been organic carbon normalized following the guidelines set forth in the Washington Department of Ecology publication 05-09-050 dated December 1992.

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
c: Sheri Bozic
SOU1028R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
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fbi@isomedia.com
www.friedmanandbruya.com

October 28, 2013

Dee Gardner, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Gardner:

Included are the results from the testing of material submitted on October 9, 2013 from the SOU_0995-001-04_20131009, F&BI 310154 project. There are 47 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
c: Sheri Bozic
SOU1028R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 9, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0995-001-04_20131009, F&BI 310154 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
310154-01	JFOS2-BH01-02
310154-02	JFOS2-BH01-04
310154-03	JFOS2-BH01-06
310154-04	JFOS2-BH01-08
310154-05	JFOS2-BH01-12
310154-06	JFOS2-BH01-14
310154-07	JFOS2-BH01-16
310154-08	JFOS2-BH01-18
310154-09	JFOS2-BH01-20
310154-10	JFOS2-BH01-22
310154-11	JFOS2-BH01-24
310154-12	JFOS2-BH01-26
310154-13	JFOS2-BH01-28
310154-14	JFOS2-BH01-30
310154-15	JFOS2-BH02-02
310154-16	JFOS2-BH02-07
310154-17	JFOS2-BH02-12
310154-18	JFOS2-BH02-16
310154-19	JFOS02-BH03-03
310154-20	JFOS02-BH02-10
310154-21	JFOS2-BH03-07
310154-22	JFOS2-BH03-12
310154-23	JFOS2-BH03-18
310154-24	JFOS2-BH03-20
310154-25	JFOS2-BH03-22
310154-26	JFOS2-BH03-24
310154-27	JFOS2-BH03-26
310154-28	JFOS2-BH03-28
310154-29	JFOS2-BH03-30
310154-30	JFOS2-BH03-32
310154-31	JFOS2-BH03-34
310154-32	JFOS2-BH04-02
310154-33	JFOS2-BH04-07
310154-34	JFOS2-BH04-12
310154-35	JFOS2-BH04-12 (Duplicate)
310154-36	JFOS2-BH04-17
310154-37	JFOS2-BH04-19

CASE NARRATIVE (continued)

310154-38	JFOS2-BH04-19 (Duplicate)
310154-39	JFOS2-BH04-21
310154-40	JFOS2-BH04-23
310154-41	JFOS2-BH04-30
310154-42	JFOS2-BH04-32
310154-43	JFOS2-BH04-34
310154-44	JFOS2-BH05-02
310154-45	JFOS2-BH05-07
310154-46	JFOS2-BH05-12
310154-47	JFOS2-BH05-14
310154-48	JFOS2-BH05-18
310154-49	JFOS2-BH05-20
310154-50	JFOS2-BH05-20 (Duplicate)
310154-51	JFOS2-BH05-22
310154-52	JFOS2-BH05-24
310154-53	JFOS2-BH05-28
310154-54	JFOS2-BH05-30
310154-55	JFOS2-BH05-34
310154-56	JFOS2-BH05-35
310154-57	Trip Blank

The 8082A surrogate in samples JFOS2-BH01-24 and JFOS2-BH05-18 did not pass the acceptance criteria. The sample results were flagged accordingly.

The 8082A matrix spike and matrix spike duplicate failed the relative percent difference for aroclor 1260. The results are likely due to sample interferences.

All other quality control requirements were acceptable.

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH01-16	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-07 1/5
Date Analyzed:	10/11/13	Data File:	32.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	110	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	<3.1
Aroclor 1232	<0.02	<3.1
Aroclor 1016	<0.02	<3.1
Aroclor 1242	<0.02	<3.1
Aroclor 1248	<0.02	<3.1
Aroclor 1254	17 ve	2,600 ve
Aroclor 1260	<0.02	<3.1
Aroclor 1262	<0.02	<3.1
Aroclor 1268	<0.02	<3.1

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH01-16	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-07 1/100
Date Analyzed:	10/15/13	Data File:	28.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	110 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.4	<62
Aroclor 1232	<0.4	<62
Aroclor 1016	<0.4	<62
Aroclor 1242	<0.4	<62
Aroclor 1248	<0.4	<62
Aroclor 1254	15	2,300
Aroclor 1260	<0.4	<62
Aroclor 1262	<0.4	<62
Aroclor 1268	<0.4	<62

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH01-18	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-08 1/5
Date Analyzed:	10/15/13	Data File:	40.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	NA
Aroclor 1232	<0.02	NA
Aroclor 1016	<0.02	NA
Aroclor 1242	<0.02	NA
Aroclor 1248	<0.02	NA
Aroclor 1254	<0.02	NA
Aroclor 1260	<0.02	NA
Aroclor 1262	<0.02	NA
Aroclor 1268	<0.02	NA

Note: The presence of PCB congeners cannot be ruled out, but the material present is not characteristic of the standard aroclors.

Note (NA) - Results were not normalized due to the low level of organic carbon present in the sample.

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH01-20	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-09 1/5
Date Analyzed:	10/11/13	Data File:	40.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	NA
Aroclor 1232	<0.02	NA
Aroclor 1016	<0.02	NA
Aroclor 1242	<0.02	NA
Aroclor 1248	<0.02	NA
Aroclor 1254	0.17	NA
Aroclor 1260	<0.02	NA
Aroclor 1262	<0.02	NA
Aroclor 1268	<0.02	NA

Note (NA) - Results were not normalized due to the low level of organic carbon present in the sample.

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH01-22	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-10 1/5
Date Analyzed:	10/11/13	Data File:	42.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	141	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	NA
Aroclor 1232	<0.02	NA
Aroclor 1016	<0.02	NA
Aroclor 1242	<0.02	NA
Aroclor 1248	<0.02	NA
Aroclor 1254	0.074	NA
Aroclor 1260	<0.02	NA
Aroclor 1262	<0.02	NA
Aroclor 1268	<0.02	NA

Note (NA) - Results were not normalized due to the low level of organic carbon present in the sample.

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH01-24	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-11 1/5
Date Analyzed:	10/12/13	Data File:	44.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	171 vo	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	NA
Aroclor 1232	<0.02	NA
Aroclor 1016	<0.02	NA
Aroclor 1242	<0.02	NA
Aroclor 1248	<0.02	NA
Aroclor 1254	0.034 js	NA
Aroclor 1260	<0.02	NA
Aroclor 1262	<0.02	NA
Aroclor 1268	<0.02	NA

Note (NA) - Results were not normalized due to the low level of organic carbon present in the sample.

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH03-18	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-23 1/1000
Date Analyzed:	10/15/13	Data File:	30.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	200 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<4	<150
Aroclor 1232	<4	<150
Aroclor 1016	<4	<150
Aroclor 1242	<4	<150
Aroclor 1248	<4	<150
Aroclor 1254	280	11,000
Aroclor 1260	<4	<150
Aroclor 1262	<4	<150
Aroclor 1268	<4	<150

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH03-20	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-24 1/1000
Date Analyzed:	10/16/13	Data File:	64.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<4	<50
Aroclor 1232	<4	<50
Aroclor 1016	<4	<50
Aroclor 1242	<4	<50
Aroclor 1248	<4	<50
Aroclor 1254	380	4,800
Aroclor 1260	180	2,300
Aroclor 1262	<4	<50
Aroclor 1268	<4	<50

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH03-22	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-25 1/1000
Date Analyzed:	10/16/13	Data File:	62.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<4	<120
Aroclor 1232	<4	<120
Aroclor 1016	<4	<120
Aroclor 1242	<4	<120
Aroclor 1248	<4	<120
Aroclor 1254	<4	<120
Aroclor 1260	110	3,300
Aroclor 1262	<4	<120
Aroclor 1268	<4	<120

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH03-24	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-26 1/5
Date Analyzed:	10/15/13	Data File:	42.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	111	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	NA
Aroclor 1232	<0.02	NA
Aroclor 1016	<0.02	NA
Aroclor 1242	<0.02	NA
Aroclor 1248	<0.02	NA
Aroclor 1254	0.18	NA
Aroclor 1260	<0.02	NA
Aroclor 1262	<0.02	NA
Aroclor 1268	<0.02	NA

Note (NA) - Results were not normalized due to the low level of organic carbon present in the sample.

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH03-26	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-27 1/5
Date Analyzed:	10/12/13	Data File:	50.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	<14
Aroclor 1232	<0.02	<14
Aroclor 1016	<0.02	<14
Aroclor 1242	<0.02	<14
Aroclor 1248	<0.02	<14
Aroclor 1254	<0.02	<14
Aroclor 1260	13 ve	9,200 ve
Aroclor 1262	<0.02	<14
Aroclor 1268	<0.02	<14

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH03-26	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-27 1/100
Date Analyzed:	10/15/13	Data File:	32.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	110 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.4	<280
Aroclor 1232	<0.4	<280
Aroclor 1016	<0.4	<280
Aroclor 1242	<0.4	<280
Aroclor 1248	<0.4	<280
Aroclor 1254	<0.4	<280
Aroclor 1260	14	9,900
Aroclor 1262	<0.4	<280
Aroclor 1268	<0.4	<280

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH03-28	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/17/13	Lab ID:	310154-28 1/5
Date Analyzed:	10/23/13	Data File:	28.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	94	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	NA
Aroclor 1232	<0.02	NA
Aroclor 1016	<0.02	NA
Aroclor 1242	<0.02	NA
Aroclor 1248	<0.02	NA
Aroclor 1254	<0.02	NA
Aroclor 1260	0.43	NA
Aroclor 1262	<0.02	NA
Aroclor 1268	<0.02	NA

Note (NA) - Results were not normalized due to the low level of organic carbon present in the sample.

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH03-30	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/17/13	Lab ID:	310154-29 1/5
Date Analyzed:	10/23/13	Data File:	30.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	101	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	NA
Aroclor 1232	<0.02	NA
Aroclor 1016	<0.02	NA
Aroclor 1242	<0.02	NA
Aroclor 1248	<0.02	NA
Aroclor 1254	0.055	NA
Aroclor 1260	<0.02	NA
Aroclor 1262	<0.02	NA
Aroclor 1268	<0.02	NA

Note (NA) - Results were not normalized due to the low level of organic carbon present in the sample.

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH03-32	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/17/13	Lab ID:	310154-30 1/5
Date Analyzed:	10/23/13	Data File:	32.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	112	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	NA
Aroclor 1232	<0.02	NA
Aroclor 1016	<0.02	NA
Aroclor 1242	<0.02	NA
Aroclor 1248	<0.02	NA
Aroclor 1254	<0.02	NA
Aroclor 1260	<0.02	NA
Aroclor 1262	<0.02	NA
Aroclor 1268	<0.02	NA

Note (NA) - Results were not normalized due to the low level of organic carbon present in the sample.

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH03-34	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/17/13	Lab ID:	310154-31 1/5
Date Analyzed:	10/23/13	Data File:	34.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	NA
Aroclor 1232	<0.02	NA
Aroclor 1016	<0.02	NA
Aroclor 1242	<0.02	NA
Aroclor 1248	<0.02	NA
Aroclor 1254	0.044	NA
Aroclor 1260	<0.02	NA
Aroclor 1262	<0.02	NA
Aroclor 1268	<0.02	NA

Note (NA) - Results were not normalized due to the low level of organic carbon present in the sample.

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH04-17	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-36 1/1000
Date Analyzed:	10/16/13	Data File:	56.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<4	<200
Aroclor 1232	<4	<200
Aroclor 1016	<4	<200
Aroclor 1242	<4	<200
Aroclor 1248	<4	<200
Aroclor 1254	270	14,000
Aroclor 1260	<4	<200
Aroclor 1262	<4	<200
Aroclor 1268	<4	<200

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH04-19	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-37 1/1000
Date Analyzed:	10/16/13	Data File:	58.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<4	<210
Aroclor 1232	<4	<210
Aroclor 1016	<4	<210
Aroclor 1242	<4	<210
Aroclor 1248	<4	<210
Aroclor 1254	82	4,400
Aroclor 1260	<4	<210
Aroclor 1262	<4	<210
Aroclor 1268	<4	<210

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH04-19 (Duplicate)	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-38 1/1000
Date Analyzed:	10/16/13	Data File:	60.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<4	<260
Aroclor 1232	<4	<260
Aroclor 1016	<4	<260
Aroclor 1242	<4	<260
Aroclor 1248	<4	<260
Aroclor 1254	160	10,000
Aroclor 1260	<4	<260
Aroclor 1262	<4	<260
Aroclor 1268	<4	<260

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH04-21	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-39 1/500
Date Analyzed:	10/16/13	Data File:	54.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<2	<230
Aroclor 1232	<2	<230
Aroclor 1016	<2	<230
Aroclor 1242	<2	<230
Aroclor 1248	<2	<230
Aroclor 1254	34	3,800
Aroclor 1260	<2	<230
Aroclor 1262	<2	<230
Aroclor 1268	<2	<230

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH04-23	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-40 1/2500
Date Analyzed:	10/16/13	Data File:	66.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	250 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<10	<430
Aroclor 1232	<10	<430
Aroclor 1016	<10	<430
Aroclor 1242	<10	<430
Aroclor 1248	<10	<430
Aroclor 1254	140	6,000
Aroclor 1260	<10	<430
Aroclor 1262	<10	<430
Aroclor 1268	<10	<430

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH04-30	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-41 1/100
Date Analyzed:	10/16/13	Data File:	52.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	110 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.4	<37
Aroclor 1232	<0.4	<37
Aroclor 1016	19	1,800
Aroclor 1242	25	2,300
Aroclor 1248	<0.4	<37
Aroclor 1254	31	2,900
Aroclor 1260	14	1,300
Aroclor 1262	4.0	370
Aroclor 1268	<0.4	<37

Note: Due to interferences present Aroclors 1016 and/or 1242, and 1260 and/or 1262 should be considered estimates.

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH04-32	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/17/13	Lab ID:	310154-42 1/5
Date Analyzed:	10/23/13	Data File:	36.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	99	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	NA
Aroclor 1232	<0.02	NA
Aroclor 1016	<0.02	NA
Aroclor 1242	<0.02	NA
Aroclor 1248	<0.02	NA
Aroclor 1254	0.085	NA
Aroclor 1260	<0.02	NA
Aroclor 1262	<0.02	NA
Aroclor 1268	<0.02	NA

Note (NA) - Results were not normalized due to the low level of organic carbon present in the sample.

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH04-34	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/17/13	Lab ID:	310154-43 1/5
Date Analyzed:	10/23/13	Data File:	38.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	126	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	<13
Aroclor 1232	<0.02	<13
Aroclor 1016	<0.02	<13
Aroclor 1242	<0.02	<13
Aroclor 1248	<0.02	<13
Aroclor 1254	0.089	58
Aroclor 1260	<0.02	<13
Aroclor 1262	<0.02	<13
Aroclor 1268	<0.02	<13

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH05-18	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-48 1/5
Date Analyzed:	10/12/13	Data File:	70.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	33 vo	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	<0.37
Aroclor 1232	<0.02	<0.37
Aroclor 1016	<0.02	<0.37
Aroclor 1242	<0.02	<0.37
Aroclor 1248	<0.02	<0.37
Aroclor 1254	3.8 ve js	70 ve js
Aroclor 1260	<0.02	<0.37
Aroclor 1262	<0.02	<0.37
Aroclor 1268	<0.02	<0.37

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH05-18	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-48 1/50
Date Analyzed:	10/15/13	Data File:	34.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	40 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.2	<3.7
Aroclor 1232	<0.2	<3.7
Aroclor 1016	<0.2	<3.7
Aroclor 1242	<0.2	<3.7
Aroclor 1248	<0.2	<3.7
Aroclor 1254	2.7	50
Aroclor 1260	<0.2	<3.7
Aroclor 1262	<0.2	<3.7
Aroclor 1268	<0.2	<3.7

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH05-20	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-49 1/5
Date Analyzed:	10/12/13	Data File:	72.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	119	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	<0.48
Aroclor 1232	<0.02	<0.48
Aroclor 1016	<0.02	<0.48
Aroclor 1242	<0.02	<0.48
Aroclor 1248	<0.02	<0.48
Aroclor 1254	9.7 ve	230 ve
Aroclor 1260	<0.02	<0.48
Aroclor 1262	<0.02	<0.48
Aroclor 1268	<0.02	<0.48

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH05-20	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-49 1/100
Date Analyzed:	10/15/13	Data File:	36.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	130 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.4	<9.7
Aroclor 1232	<0.4	<9.7
Aroclor 1016	<0.4	<9.7
Aroclor 1242	<0.4	<9.7
Aroclor 1248	<0.4	<9.7
Aroclor 1254	9.3	230
Aroclor 1260	<0.4	<9.7
Aroclor 1262	<0.4	<9.7
Aroclor 1268	<0.4	<9.7

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH05-20 (Duplicate)	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-50 1/100
Date Analyzed:	10/15/13	Data File:	38.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	110 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.4	<11
Aroclor 1232	<0.4	<11
Aroclor 1016	<0.4	<11
Aroclor 1242	<0.4	<11
Aroclor 1248	<0.4	<11
Aroclor 1254	11	300
Aroclor 1260	<0.4	<11
Aroclor 1262	<0.4	<11
Aroclor 1268	<0.4	<11

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH05-22	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-51 1/5
Date Analyzed:	10/15/13	Data File:	44.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	<0.46
Aroclor 1232	<0.02	<0.46
Aroclor 1016	<0.02	<0.46
Aroclor 1242	<0.02	<0.46
Aroclor 1248	<0.02	<0.46
Aroclor 1254	2.9	67
Aroclor 1260	<0.02	<0.46
Aroclor 1262	<0.02	<0.46
Aroclor 1268	<0.02	<0.46

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH05-24	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-52 1/5
Date Analyzed:	10/12/13	Data File:	80.D\ECD1A.C
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	135	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	<0.33
Aroclor 1232	<0.02	<0.33
Aroclor 1016	<0.02	<0.33
Aroclor 1242	<0.02	<0.33
Aroclor 1248	<0.02	<0.33
Aroclor 1254	<0.02	<0.33
Aroclor 1260	<0.02	<0.33
Aroclor 1262	<0.02	<0.33
Aroclor 1268	<0.02	<0.33

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH05-28	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	310154-53 1/10
Date Analyzed:	10/16/13	Data File:	46.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.04	<1.2
Aroclor 1232	<0.04	<1.2
Aroclor 1016	<0.04	<1.2
Aroclor 1242	<0.04	<1.2
Aroclor 1248	<0.04	<1.2
Aroclor 1254	4.9	150
Aroclor 1260	<0.04	<1.2
Aroclor 1262	<0.04	<1.2
Aroclor 1268	<0.04	<1.2

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH05-30	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/17/13	Lab ID:	310154-54 1/250
Date Analyzed:	10/23/13	Data File:	42.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	125 ds	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<1	<76
Aroclor 1232	<1	<76
Aroclor 1016	1.7	130
Aroclor 1242	<1	<76
Aroclor 1248	<1	<76
Aroclor 1254	<1	<76
Aroclor 1260	27	2,100
Aroclor 1262	<1	<76
Aroclor 1268	<1	<76

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH05-34	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/17/13	Lab ID:	310154-55 1/5
Date Analyzed:	10/23/13	Data File:	46.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	104	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.02	<7.1
Aroclor 1232	<0.02	<7.1
Aroclor 1016	0.085	30
Aroclor 1242	<0.02	<7.1
Aroclor 1248	<0.02	<7.1
Aroclor 1254	<0.02	<7.1
Aroclor 1260	1.9	670
Aroclor 1262	<0.02	<7.1
Aroclor 1268	<0.02	<7.1

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	JFOS2-BH05-35	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/17/13	Lab ID:	310154-56 1/5
Date Analyzed:	10/24/13	Data File:	48.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	98	50	150

Compounds:	Concentration mg/kg (ppm)	Carbon Normalized Concentration mg/kg OC
Aroclor 1221	<0.1	<54
Aroclor 1232	<0.1	<54
Aroclor 1016	<0.1	<54
Aroclor 1242	<0.1	<54
Aroclor 1248	<0.1	<54
Aroclor 1254	<0.1	<54
Aroclor 1260	<0.1	<54
Aroclor 1262	<0.1	<54
Aroclor 1268	<0.1	<54

Note: The reporting limits are raised due to high levels of interfering compounds.

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/10/13	Lab ID:	03-2035 mb2 1/5
Date Analyzed:	10/11/13	Data File:	10.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	115	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/11/13	Lab ID:	03-2043 mb 1/5
Date Analyzed:	10/11/13	Data File:	26.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	106	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/17/13	Lab ID:	03-2098 mb 1/5
Date Analyzed:	10/18/13	Data File:	08.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	111	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Trip Blank	Client:	SoundEarth Strategies
Date Received:	10/09/13	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/14/13	Lab ID:	310154-57
Date Analyzed:	10/15/13	Data File:	101444.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	114	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0995-001-04_20131009, F&BI 310154
Date Extracted:	10/14/13	Lab ID:	03-2078 mb
Date Analyzed:	10/14/13	Data File:	101438.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

Date of Report: 10/28/13
Date Received: 10/09/13
Project: SOU_0995-001-04_20131009, F&BI 310154

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 310141-01 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.8	<0.02	92	85	50-150	8
Aroclor 1260	mg/kg (ppm)	0.8	0.16	85	75	50-150	12

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.8	102	70-130
Aroclor 1260	mg/kg (ppm)	0.8	102	70-130

Date of Report: 10/28/13
Date Received: 10/09/13
Project: SOU_0995-001-04_20131009, F&BI 310154

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 310154-08 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.8	<0.02	111	93	50-150	18
Aroclor 1260	mg/kg (ppm)	0.8	<0.02	112	90	50-150	22 vo

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.8	97	70-130
Aroclor 1260	mg/kg (ppm)	0.8	96	70-130

Date of Report: 10/28/13
Date Received: 10/09/13
Project: SOU_0995-001-04_20131009, F&BI 310154

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 310271-01 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.8	<0.1	132	122	50-150	8
Aroclor 1260	mg/kg (ppm)	0.8	<0.1	120	113	50-150	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.8	119	70-130
Aroclor 1260	mg/kg (ppm)	0.8	106	70-130

Date of Report: 10/28/13
Date Received: 10/09/13
Project: SOU_0995-001-04_20131009, F&BI 310154

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	2.5	110	115	70-130	4
Aroclor 1260	ug/L (ppb)	2.5	103	106	70-130	3

Data Qualifiers & Definitions

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

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

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

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

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

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

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

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

fb - Analyte present in the blank and the sample.

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. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

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

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

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

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

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

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 compound indicated is likely due to laboratory contamination.

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

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

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

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

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

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.

310154

SAMPLE CHAIN OF CUSTODY

ME 10-9-13

1005

Page # 1 of 6

Send Report to Deborah Gardner

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, WA 98102

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

SAMPLERS (signature) [signature]

PROJECT NAME/NO.: Jorgensen Forge Outfall Site, Phase 4A (JFOS2-4A)

PO #: 0995-001-04

REMARKS: X-per DG 10/10/13 MC

~~Hold~~

TURNAROUND TIME
Standard (2 Weeks)
X RUSH 3-Day TAT per DG
Rush charges authorized by: MC

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	PCBs by U.S. EPA Method 8082	Total Organic Carbon DG 10/14/13							Notes
JFOS2BH01-02	JFOS2BH01	02	01	10-8-13	0900	Soil	1									X-per DG 10/17/13 MG
JFOS2BH01-04		04	02		0905		1									
JFOS2BH01-06		06	03		0910		1									
JFOS2BH01-08		08	04		0915		1									
~~[illegible]~~					~~[illegible]~~											
JFOS2BH01-12		12	05		0920		1									
JFOS2BH01-14		14	06		0925		1									
JFOS2BH01-16		16	07		0930		1	X	X							
JFOS2BH01-18		18	08		0935		1	X	X							
JFOS2BH01-20		20	09		0940		1	X	X							

ANALYSES REQUESTED

Samples received at 5 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: [signature]	Chris Cass	SoundEarth Strategies, Inc.	10-9-13	0917
Received by: [signature]	Nhan Phan	FEBI	10/9/13	0917
Relinquished by:				
Received by:				

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

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SAMPLE CHAIN OF CUSTODY

ME 10-9-13 C05

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

SAMPLERS (signature) [signature]

PROJECT NAME/NO.	PO #
Jorgensen Forge Outfall Site, Phase 4A (JFOS2-4A)	0995-001-04

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	PCBs by U.S. EPA Method 8082	Total Organic Carbon							Notes
JFOS2BH01-22	JFOS2BH01	22	10	10-9-13	0945	Soil	1	X	X							
JFOS2BH01-24		24	11		0950		1	X	X							
JFOS2BH01-26		26	12		0955		1									
JFOS2BH01-28		28	13		1000		1									
JFOS2BH01-30		30	14		1005		1									
JFOS2BH02-02	JFOS2BH02	02	15		1035		1									
JFOS2BH02-07		07	16		1040		1									
JFOS2BH02-12		12	17		1215		1									
JFOS2BH02-16		16	18		1220		1									
JFOS2BH03-03	JFOS2BH03	03	19		1230		1									
JFOS2BH02-10	JFOS2BH02	10	20		1045		1									

Samples received at 5

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	[signature]	Chris Cass	SoundEarth Strategies, Inc.	10-9-13	0917
Received by:	[signature]	Nhan Pham	FEBI	10/9/13	0917
Relinquished by:					
Received by:					

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ME 10-9-13 005

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SAMPLERS (signature)

PROJECT NAME/NO.: Jorgensen Forge Outfall Site, Phase 4A (JFOS2-4A)

PO #: 0995-001-04

REMARKS: A.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	PCBs by U.S. EPA Method 8082	Total Organic Carbon							Notes
JFOS2-BH03-07	JFOS2BH03	07	21	10-8-13	1235	Soil	1									
JFOS2-BH03-12	JFOS2BH03	12	22		1240	Soil	1									
JFOS2-BH03-18		18	23		1245		1	X	X							
JFOS2-BH03-20		20	24		1250		1	X	X							
JFOS2-BH03-22		22	25		1255		1	X	X							
JFOS2-BH03-24		24	26		1300		1	X	X							
JFOS2-BH03-26		26	27		1305		1	X	X							
JFOS2-BH03-28		28	28		1310		1	X	X							
JFOS2-BH03-30		30	29		1315		1	X	X							
JFOS2-BH03-32		32	30		1400		1	X	X							

Samples received at 5 °C

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SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chris Cass	SoundEarth Strategies, Inc.	10-9-13	0917
Received by:	Nhan Phan	FBI	10/9/13	0917
Relinquished by:				
Received by:				

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* SAMPLE CHAIN OF CUSTODY

ME 10-9-13 COC

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Send Report to Deborah Gardner

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SAMPLERS (signature) [signature]

PROJECT NAME/NO.: Jorgensen Forge Outfall Site, Phase 4A (JFOS2-4A)

PO #: 0995-001-04

REMARKS: [illegible]

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	PCBs by U.S. EPA Method 8082	Total Organic Carbon							Notes
JFOS2-BH03-34	JFOS2-BH03	34	31	10-8-13	1405	Soil	1	X	X							
JFOS2-BH04-02	JFOS2-BH04	02	32		1420		1									
JFOS2-BH04-07	JFOS2-BH04	07	33		1425		1									
JFOS2-BH04-12	JFOS2-BH04	12	34		1430		1									
JFOS2-BH04-12 (Duplicate)	"	12	35		1435		1									
JFOS2-BH04-17	JFOS2-BH04	17	36		1440		1	X	X							
JFOS2-BH04-19	"	19	37		1455		1	X	X							
JFOS2-BH04-19 (Duplicate)	"	19	38		1450		1	X	X							
JFOS2-BH04-21	JFOS2-BH04	21	39		1455		1	X	X							
JFOS2-BH04-23	"	23	40		1500		1	X	X							

Samples received at 5 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: [signature]	Chris Cass	SoundEarth Strategies, Inc.	10-9-13	0917
Received by: [signature]	Khan Phan	FEBI	✓	✓
Relinquished by:				
Received by:				

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SAMPLERS (signature) [signature]

PROJECT NAME/NO.	PO #
Jorgensen Forge Outfall Site, Phase 4A (JFOS2-4A)	0995-001-04

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	PCBs by U.S. EPA Method 8082	Total Organic Carbon							Notes
JFOSD-BH04-30	JFOSD-BH04	30	41	10-8-13	1505	Soil	1	X	X							
JFOSD-BH04-32	↓	32	42	↓	1515	Soil	1	X	X							
JFOSD-BH04-34	↓	34	43	↓	1520	Soil	1	X	X							
JFOSD-BH05-02	JFOSD-BH05	02	44		1540	↓	1									
JFOSD-BH05-07	JFOSD-BH05	07	45		1545		1									
JFOSD-BH05-12		12	46		1600		1									
JFOSD-BH05-14		14	47		1615		1									
JFOSD-BH05-18	↓	18	48	↓	1610	↓	1	X	X							
JFOSD-BH05-20	↓	20	49	↓	1615	↓	1	X	X							
JFOSD-BH05-20 (Duplicate)	↓	20	50	↓	1620	↓	1	X	X							

Samples received at 5 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: [signature]	Chris Cass	SoundEarth Strategies, Inc.	10-9-13	0917
Received by: [signature]	Nhan Phan	FEBI	10/9/13	V
Relinquished by:				
Received by:				

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Seattle, WA 98119-2029
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SAMPLERS (signature) [signature]

PROJECT NAME/NO.	PO #
Jorgensen Forge Outfall Site, Phase 4A (JFOS2-4A)	0995-001-04

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	PCBs by U.S. EPA Method 8082	Total Organic Carbon							Notes
JFOSD-BHCS-22	JFOSD-BHCS	22	51	10-8-13	1625	Soil	1	X	X							
JFOSD-BHCS-24	JFOSD-BHCS	24	52	"	1630		1	X	X							
JFOSD-BHCS-28	JFOSD-BHCS	28	53	"	1635		1	X	X							
JFOSD-BHCS-30	JFOSD-BHCS	30	54	"	1640		1	X	X							
JFOSD-BHCS-34		34	55	"	1645		1	X	X							
JFOSD-BHCS-35		35	56	"	1650		1	X	X							
Trip Blank	—	—	057	—	—	Water	1	X	X							

Samples received at 5 °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.	10-9-13	0910
Received by:	[signature]	Nhan Phan	FBI	✓	✓
Relinquished by:					
Received by:					

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