



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

October 19, 2022

Mr. Bob Warren
Toxics Cleanup Program
Washington State Department of Ecology
Northwest Regional Office
15700 Dayton Avenue North
Shoreline, Washington 988133

**SUBJECT: YEAR 3 SECOND SEMIANNUAL GROUNDWATER MONITORING EVENT: SEPTEMBER 2022
Former Wesmar Company, Inc. (Ballard Blocks II Property)
1401 and 1451 Northwest 46th Street, Seattle, Washington
Project No. 1249-001-06**

Dear Mr. Warren:

On behalf of Block at Ballard II, LLC, SoundEarth Strategies, Inc. (SoundEarth) has prepared this subgrade drainage groundwater monitoring report to provide a summary of the results for the Year 3 second semiannual groundwater monitoring event performed in September 2022 at the Former Wesmar Company, Inc. Site (the Site). The Site is located at 1401 and 1451 Northwest 46th Street in Seattle, Washington, and is also identified as Ballard Blocks II.

Operation and monitoring of the permanent subgrade drainage water treatment system associated with the completed redevelopment of the Property began in October 2019. The work for this monitoring event was performed pursuant to the requirements of the First Amended Consent Decree (No. DE 10-2-21304-0 SEA) between Block at Ballard II, LLC and the Washington State Department of Ecology (Ecology) dated October 20, 2017 (Consent Decree).

SUBGRADE DRAINAGE GOUNDWATER MONITORING

The approximate location of the subgrade groundwater collection sump and the arsenic water treatment system located in the underground parking garage on the Site is shown on Figure 1. Water monitoring analytical results pertaining to the subgrade drainage water and the permanent arsenic treatment system are summarized in Tables 1 and 2.

SAMPLING METHODOLOGY

The following section describes the sampling methodology employed during the subgrade drainage water quality monitoring activities and the permanent arsenic treatment system performance monitoring activities performed at the Site during the second and third quarters of 2022.

April 2022 through September 2022 Permanent Arsenic Treatment System Operations and Maintenance (O&M) Monthly Performance Monitoring Events

Subgrade drainage pipes under the building on the Site drain water to a sump by gravity feed in the underground parking garage in the southeastern portion of the Site (Figure 1).

Monthly permanent arsenic treatment system performance monitoring activities were performed on April 20, May 18, June 22, July 25, August 18, and September 21, 2022.

During the April 2022 through September 2022 O&M monitoring events and prior to discharge to the municipal stormwater system, water samples were collected from a pre-treatment influent water port (INF) located immediately ahead of the three arsenic-targeting media treatment vessels; a mid-treatment system monitoring port (MID01) located between the first and second arsenic-targeting media treatment vessels; a second mid-treatment system monitoring port (MID02) located between the second and third arsenic-targeting media treatment vessels; and a post-treatment effluent water monitoring port (EFF) located immediately downstream of the permanent arsenic-treatment system vessels. The approximate locations of these four water monitoring ports (INF, MID01, MID02, and EFF) are shown on the general design schematic of the treatment system in Attachment A.

Water samples were collected directly into clean, laboratory-prepared sample containers. Each container was labeled with a unique sample identification number, the date and time sampled, and project number; placed on ice in a cooler; and transported to Friedman & Bruya, Inc. of Seattle, Washington (F&B) under standard chain-of-custody protocols for laboratory analysis. The collected water samples submitted for laboratory analysis were analyzed by US Environmental Protection Agency Method 200.8 for total arsenic.

Year 3 Second Semiannual Subgrade Drainage Groundwater Monitoring Event (September 2022)

A subgrade drainage groundwater sample was collected from the subgrade groundwater collection sump inlet pipes on September 21, 2022. A description of the sampling methodology is provided below. A flow-weighted sample from the subgrade groundwater drainage system was collected directly from the sub-slab drainage outlet pipes located within the sump (Figure 1).

Outlet pipes draining into the subgrade groundwater collection sump from the subgrade drainage system include one pipe on the northern side, a lower pipe on the eastern side, an upper pipe on the eastern side, and one pipe on the southern side of the sump. During the monitoring event on September 21, 2022, water was observed as flowing from the pipe on the northern side and from the lower pipe on the eastern side of the subgrade groundwater collection sump. SoundEarth did not observe water flowing from the pipes on the southern side or the upper pipe on the eastern side of the subgrade groundwater collection sump during this monitoring event.

A flow rate was measured for the outlet pipes producing water from the sub-slab drainage system on September 21, 2022. The water volume was collected from the pipes that were producing water flow. The total water flow rate into the subgrade sump during the monitoring event was approximately 0.99 gallons per minute.

Water quality analytical results for the permanent arsenic treatment system performance monitoring activities are summarized below and in Table 1. Analytical results for total arsenic for groundwater samples collected from the subgrade drainage system are summarized in the results section below and on Table 2. Laboratory analytical reports are included in Attachment B.

April 2022 through September 2022 Permanent Arsenic Treatment System Performance Monitoring Events

Effluent water samples collected following treatment through the permanent arsenic treatment system include the sample IDs below:

- 1249_GW_EFF_20220420
- 1249_GW_EFF_20220518
- 1249_GW_EFF_20220622
- 1249_GW_EFF_20220725
- 1249_GW_EFF_20220818
- 1249_GW_EFF_20220921

Total arsenic was not detected at concentrations exceeding the Washington State Model Toxics Control Act (MTCA) Method A cleanup level for groundwater of 5 micrograms per liter ($\mu\text{g/L}$) in the effluent water samples collected during treatment system performance monitoring events on April 20, May 18, June 22, July 25, August 18, and September 21, 2022.

Year 3 Second Semiannual Subgrade Drainage Groundwater Monitoring Event Results (September 2022)

The September 2022 Year 3 second semiannual flow-weighted water sample (sample ID 1249_SSGW_20220921; Table 2) was collected from the subgrade groundwater drainage system on September 21, 2022, prior to treatment through the permanent arsenic treatment system. Total arsenic was detected at a concentration of 15.9 $\mu\text{g/L}$ in the flow-weighted pre-treatment subgrade groundwater sample, which is above the MTCA Method A cleanup level of 5 $\mu\text{g/L}$.

The post-treatment effluent water sample (sample ID 1249_GW_EFF_20220921) was collected on September 21, 2022, following treatment of the collected subgrade drainage water through the permanent arsenic treatment system. Arsenic was not detected at a concentration exceeding the laboratory reporting limit of 1 $\mu\text{g/L}$ in the effluent water sample, which is below the MTCA Method A cleanup level for arsenic in groundwater of 5 $\mu\text{g/L}$ for post-treatment effluent discharge water.

SUMMARY OF FINDINGS AND CONCLUSIONS

Relying on the results of analytical testing, the permanent arsenic treatment system appears to be performing as designed and is effectively treating concentrations of total arsenic in subgrade drainage water in compliance with the Consent Decree. Concentrations of total arsenic in post-treatment subgrade drainage water were below the MTCA Method A cleanup level of 5 $\mu\text{g/L}$ for groundwater.

Long-term groundwater monitoring is planned to continue as outlined in the Revised Cleanup Action Plan of the Consent Decree. The next subgrade drainage water monitoring event is planned for the first quarter of 2023 (the Year 4 annual monitoring event).

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 SoundEarth's agreement with the client. This report is solely for the use and

information of the 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. SoundEarth does not warrant and is 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. SoundEarth does not warrant the use of segregated portions of this report.

CLOSING

SoundEarth appreciates the opportunity to provide environmental services on this project. Please contact the undersigned at 206-306-1900 with any questions.

Respectfully,
SoundEarth Strategies, Inc.


Chris G. Cass, LG
Senior Geologist



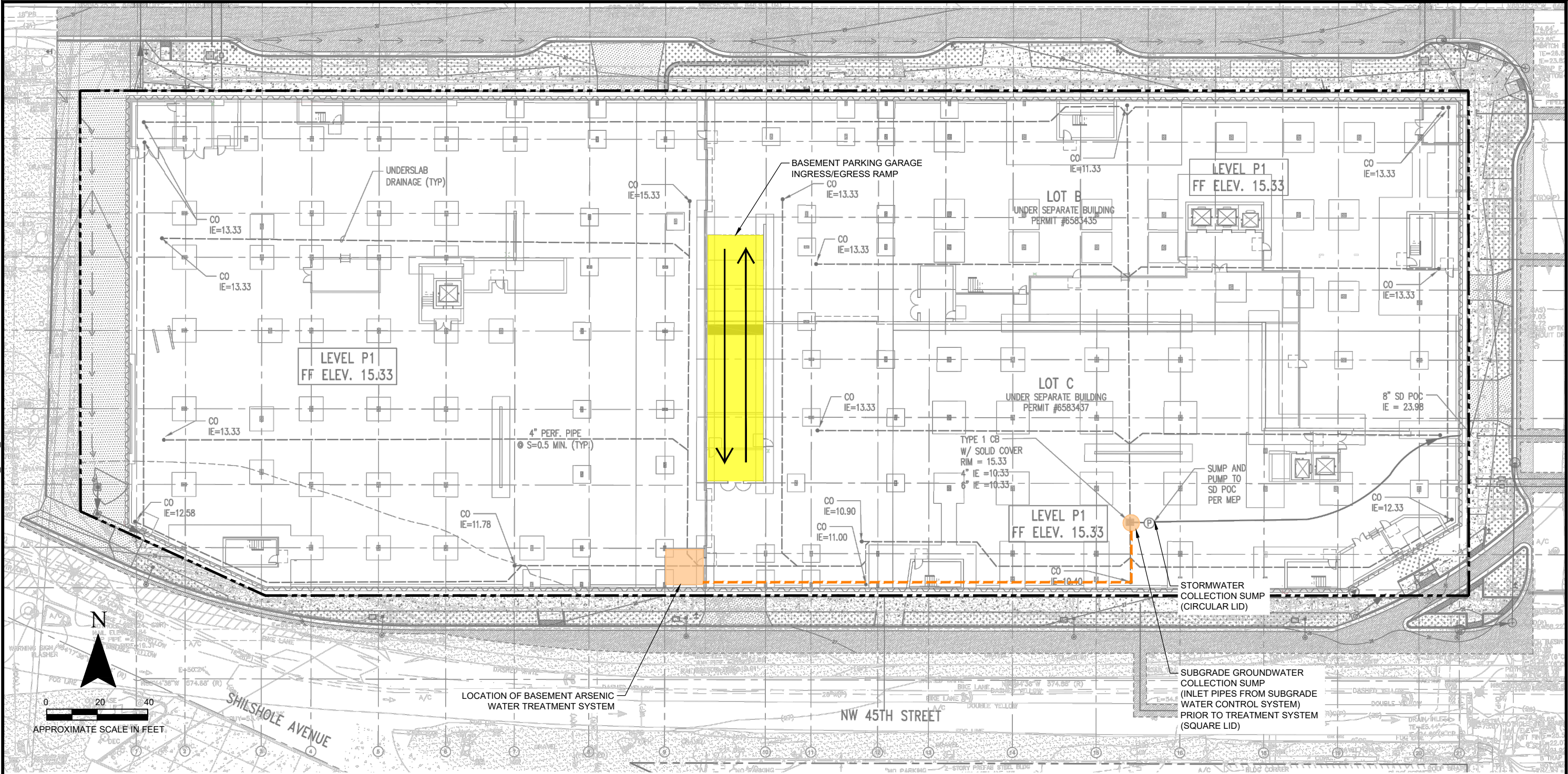

Chris M. Carter
Managing Principal

Attachments: Figure 1, Arsenic Treatment System Basement Location Map
Table 1, Summary of Influent, Mid-Treatment, and Effluent Water Analytical Results for Total Arsenic
Table 2, Summary of Groundwater Analytical Results for Raw Pre-Treatment Subgrade Water Control System Water
A, Arsenic Treatment System Schematic Diagram For Treatment of Pumped Subgrade Water
B, Laboratory Analytical Reports
Friedman & Bruya, Inc. #204367
Friedman & Bruya, Inc. #205318
Friedman & Bruya, Inc. #206390
Friedman & Bruya, Inc. #207410
Friedman & Bruya, Inc. #208282
Friedman & Bruya, Inc. #209328
Friedman & Bruya, Inc. #209330

cc: Eric Silvers, Regency Centers Corporation

JSL/kak

FIGURE



LEGEND

- PROPERTY BOUNDARY
- BASEMENT PARKING GARAGE INGRESS/EGRESS RAMP

NOTE:
BASEMAP PROVIDED BY
WEBER THOMPSON/KPFF, 2018.

SoundEarth
Strategies
WWW.SOUNDEARTHINC.COM

WESMAR COMPANY INC. SITE
(BALLARD BLOCKS II)
1401 AND 1451
NORTHWEST 46TH STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #1249-001

FIGURE 1
ARSENIC TREATMENT SYSTEM
BASEMENT LOCATION MAP

TABLES



Table 1
Summary of Influent, Mid-Treatment, and Effluent Water Analytical Results for Total Arsenic
Ballard Blocks II Property
1401 and 1451 Northwest 46th Street
Seattle, Washington

Sample IDs	Date Sampled	Pre-Treatment Influent Water Total Arsenic Analytical Results ⁽¹⁾ (micrograms per liter)	First Mid-Treatment System Total Arsenic Analytical Results ⁽¹⁾ (micrograms per liter)	Second Mid-Treatment System Total Arsenic Analytical Results ⁽¹⁾ (micrograms per liter)	Treated Effluent Water Total Arsenic Analytical Results ⁽¹⁾ (micrograms per liter)
Permanent Arsenic Treatment System Maintenance Water Quality Monitoring Results					
1249_GW_INF/MID/EFF_20191121	11/21/19	9.58	2.43	--	<1
1249_GW_INF/MID/EFF_20191226	12/26/19	9.25	3.31	--	<1
1249_GW_INF/MID/EFF_20200123	01/23/20	12.5	7.21	--	<1
1249_GW_INF/MID/EFF_20200220	02/20/20	9.88	5.78	--	<1
1249_GW_INF/MID/EFF_20200319	03/19/20	8.83	4.04	--	<1
1249_GW_INF/MID/EFF_20200426	04/26/20	12.1	6.11	--	<1
1249_GW_INF/MID/EFF_20200523	05/23/20	15.4	8.01	--	<1
1249_GW_INF/MID/EFF_20200623	06/23/20	22.3	11.6	--	1.67
1249_GW_INF/MID/EFF_20200721	07/21/20	23.8	13.6	--	2.38
1249_GW_INF/MID/EFF_20200828	08/28/20	24.8	12.8	--	3.26
1249_GW_INF/MID/EFF_20200922	09/22/20	26.3	13.3	--	3.36
1249_GW_INF/MID/EFF_20201028	10/28/20	25.0	24.2	--	<1
1249_GW_INF/MID/EFF_20201119	11/19/20	18.4	15.8	--	<1
1249_GW_INF/MID/EFF_20201221	12/21/20	5.16	4.80	--	<1
1249_GW_INF/MID/EFF_20210125	01/25/21	8.61	8.11	--	1.26
1249_GW_INF/MID/EFF_20210222	02/22/21	13.9	5.25	--	<1
1249_GW_INF/MID/EFF_20210326	03/26/21	14.1	11.3	--	<1
1249_GW_INF/MID/EFF_20210426	04/26/21	25.9	6.93	--	<1
1249_GW_INF/MID/EFF_20210527	05/27/21	26.5	8.30	--	<1
1249_GW_INF/MID/EFF_20210628	06/28/21	27.4	9.43	--	<1
1249_GW_INF/MID/EFF_20210728	07/28/21	26.7	13.1	--	<1
1249_GW_INF/MID/EFF_20210826	08/26/21	29.8	18.5	--	<1
1249_GW_INF/MID/EFF_20210929	09/29/21	18.2	13.4	--	<1
1249_GW_INF/MID/EFF_20211020	10/20/21	20.7	17.4	--	<1
1249_GW_INF/MID/EFF_20211118	11/18/21	18.2	17.8	--	<1
1249_GW_INF/MID/EFF_20211220	12/20/21	14.0	15.7	--	1.46
1249_GW_INF/MID/EFF_20220122	01/22/22	10.6	10.1	--	1.20
1249_GW_INF/MID/EFF_20220216	02/16/22	20.9	20.7	--	<1
--	--	--	First Mid-Treatment System Sampling Port relabeled as MID01 in March 2022	Second Mid-Treatment System Sampling Port (MID02) Installed in March 2022	--
1249_GW_INF/MID01/MID02/EFF_20220324	03/24/22	15.3	15.4	4.74	<1
1249_GW_INF/MID01/MID02/EFF_20220420	04/20/22	17.0	16.7	5.53	1.26
1249_GW_INF/MID01/MID02/EFF_20220518	05/18/22	16.7	17.0	6.63	2.20
1249_GW_INF/MID01/MID02/EFF_20220622	06/22/22	16.2	1.61	1.12	<1
1249_GW_INF/MID01/MID02/EFF_20220725	07/25/22	20.3	4.29	4.50	<1
1249_GW_INF/MID01/MID02/EFF_20220818	08/18/22	18.8	1.32	<1	<1
1249_GW_INF/MID01/MID02/EFF_20220921	09/21/22	21.8	7.06	<1	<1
MTCA Cleanup Level for Groundwater		--	--	--	5 ⁽²⁾

NOTES:

Sample analyses conducted by Friedman & Bruya, Inc. of Seattle, Washington.

⁽¹⁾Samples analyzed by EPA Method 200.8.

⁽²⁾MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Levels for Groundwater, revised November 2007.

-- = not applicable

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

EPA = US Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

WAC = Washington Administrative Code



Table 2
Summary of Groundwater Analytical Results for
Raw Pre-Treatment Subgrade Water Control System Water
Ballard Blocks II Property
1401 and 1451 Northwest 46th Street
Seattle, Washington

Sample ID	Date Sampled	Average Estimated Total Water Flow Rate Into Subgrade Sump (GPM)	Total Arsenic Analytical Results for Raw Subgrade Drainage Groundwater ⁽¹⁾ (micrograms per liter)
1249_SSGW_20191121	11/21/19	0.7	8.69
1249_SSGW_20200123	01/23/20	0.5	15.4
1249_SSGW_20200523	05/23/20	0.4	10.0
1249_SSGW_20200828	08/28/20	0.5	23.9
1249_SSGW_20210222	02/22/21	0.1	13.6
1249_SSGW_20210728	07/28/21	0.5	28.7
1249_SSGW_20220324	03/24/22	1.3	15.7
1249_SSGW_20220921	09/21/22	0.99	15.9
MTCA Cleanup Level for Groundwater			5 ⁽²⁾

NOTES:

Red denotes concentration exceeds MTCA cleanup level for groundwater.

Sample analyses conducted by Friedman & Bruya, Inc. of Seattle, Washington.

⁽¹⁾ Samples analyzed by EPA Method 200.8.

⁽²⁾ MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Levels for Groundwater, revised November 2007.

EPA = US Environmental Protection Agency

GPM = gallons per minute

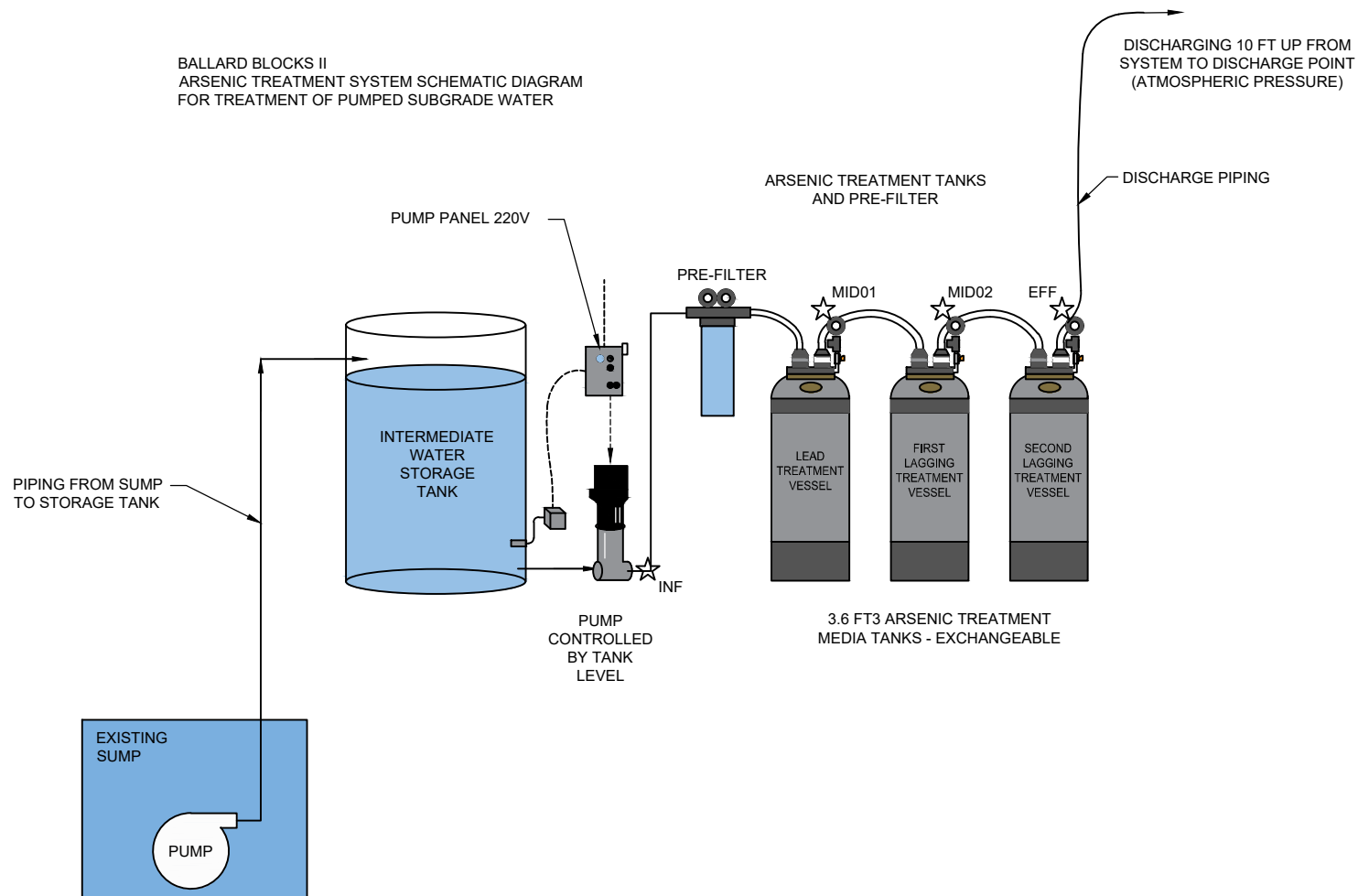
MTCA = Washington State Model Toxics Control Act

WAC = Washington Administrative Code

ATTACHMENT A

Arsenic Treatment System Schematic Diagram For Treatment of Pumped Subgrade Water

BALLARD BLOCKS II
ARSENIC TREATMENT SYSTEM SCHEMATIC DIAGRAM
FOR TREATMENT OF PUMPED SUBGRADE WATER



LEGEND

INF	PRE-TREATMENT SYSTEM WATER MONITORING PORT
MID01	FIRST MID-TREATMENT SYSTEM WATER MONITORING PORT
MID02	SECOND MID-TREATMENT SYSTEM WATER MONITORING PORT
EFF	POST-TREATMENT SYSTEM EFFLUENT WATER MONITORING PORT
☆	WATER MONITORING PORT

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WESMAR COMPANY INC. SITE
(BALLARD BLOCKS II)
1401 AND 1451
NORTHWEST 46TH STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #1249-001

FIGURE 1
ARSENIC TREATMENT SYSTEM
SCHEMATIC DIAGRAM FOR
TREATMENT OF PUMPED
SUBGRADE WATER

ATTACHMENT B

Laboratory Analytical Reports

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

April 27, 2022

Chris Cass, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Cass:

Included are the results from the testing of material submitted on April 21, 2022 from the SOU_1249-001-06_ 20220421, F&BI 204367 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. 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: Chris Carter, Jonathan Loeffler
SOU0427R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 21, 2022 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20220421, F&BI 204367 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
204367 -01	1249_GW_INF_20220420
204367 -02	1249_GW_MID01_20220420
204367 -03	1249_GW_MID02_20220420
204367 -04	1249_GW_EFF_20220420

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_INF_20220420	Client:	SoundEarth Strategies
Date Received:	04/21/22	Project:	SOU_1249-001-06_ 20220421
Date Extracted:	04/22/22	Lab ID:	204367-01
Date Analyzed:	04/22/22	Data File:	204367-01.086
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	17.0
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID01_20220420	Client:	SoundEarth Strategies
Date Received:	04/21/22	Project:	SOU_1249-001-06_20220421
Date Extracted:	04/22/22	Lab ID:	204367-02
Date Analyzed:	04/22/22	Data File:	204367-02.087
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	16.7
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID02_20220420	Client:	SoundEarth Strategies
Date Received:	04/21/22	Project:	SOU_1249-001-06_20220421
Date Extracted:	04/22/22	Lab ID:	204367-03
Date Analyzed:	04/22/22	Data File:	204367-03.088
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	5.53
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_EFF_20220420	Client:	SoundEarth Strategies
Date Received:	04/21/22	Project:	SOU_1249-001-06_20220421
Date Extracted:	04/22/22	Lab ID:	204367-04
Date Analyzed:	04/22/22	Data File:	204367-04.089
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	1.26
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1249-001-06_20220421
Date Extracted:	04/22/22	Lab ID:	I2-305 mb
Date Analyzed:	04/22/22	Data File:	I2-305 mb.051
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	<1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/27/22

Date Received: 04/21/22

Project: SOU_1249-001-06_ 20220421, F&BI 204367

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

Laboratory Code: 204316-01 x10 (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	60.8	95	88	70-130	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	92	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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 analyte 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 due to sample matrix effects.

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.

SAMPLE CHAIN OF CUSTODY

04-21-22

475

264367

Send Report to Chris Cass: Chris Carter: Jonathan Loeffler

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) <u>[Signature]</u>	
PROJECT NAME/NO.	PO #
Ballard Blocks II Property; Arsenic Treatment System Water Sampling	1249-001-06
REMARKS	

Page # <u>1</u> of <u>1</u>
TURNAROUND TIME (Standard (5 days))
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
								Total Arsenic (200.8)		
1249_GW_INF_20220420	Influent	N/A	01	4/20/22	1045	Water	1	X		HNO3 preserved
1249_GW_MID01_20220420	First Mid-Treatment	N/A	02		1040		1	X		HNO3 preserved
1249_GW_MID02_20220420	Second Mid-Treatment	N/A	03		1035		1	X		HNO3 preserved
1249_GW_EFF_20220420	Effluent	N/A	04		1030		1	X		HNO3 preserved
<u>[Signature]</u> 4/20/22										



SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
<u>[Signature]</u>		JONATHAN LOEFFLER		SOUNDEARTH		4/21/22	1709
Relinquished by:		Mac Solomon		FAB J		4/21/22	1709
Received by:							
Relinquished by:							
Received by:				Samples received at		4:00	

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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May 24, 2022

Chris Cass, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Cass:

Included are the results from the testing of material submitted on May 18, 2022 from the SOU_1249-001-06_ 20220518, F&BI 205318 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. 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: Chris Carter, Jonathan Loeffler
SOU0524R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 18, 2022 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20220518, F&BI 205318 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
205318 -01	1249_GW_INF_20220518
205318 -02	1249_GW_MID01_20220518
205318 -03	1249_GW_MID02_20220518
205318 -04	1249_GW_EFF_20220518

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_INF_20220518	Client:	SoundEarth Strategies
Date Received:	05/18/22	Project:	SOU_1249-001-06_ 20220518
Date Extracted:	05/19/22	Lab ID:	205318-01
Date Analyzed:	05/19/22	Data File:	205318-01.108
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
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Arsenic	16.7
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID01_20220518	Client:	SoundEarth Strategies
Date Received:	05/18/22	Project:	SOU_1249-001-06_20220518
Date Extracted:	05/19/22	Lab ID:	205318-02
Date Analyzed:	05/19/22	Data File:	205318-02.109
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	17.0
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID02_20220518	Client:	SoundEarth Strategies
Date Received:	05/18/22	Project:	SOU_1249-001-06_20220518
Date Extracted:	05/19/22	Lab ID:	205318-03
Date Analyzed:	05/19/22	Data File:	205318-03.110
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
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Arsenic	6.63
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_EFF_20220518	Client:	SoundEarth Strategies
Date Received:	05/18/22	Project:	SOU_1249-001-06_ 20220518
Date Extracted:	05/19/22	Lab ID:	205318-04
Date Analyzed:	05/19/22	Data File:	205318-04.111
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	2.20
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1249-001-06_ 20220518
Date Extracted:	05/19/22	Lab ID:	I2-368 mb
Date Analyzed:	05/19/22	Data File:	I2-368 mb.096
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/22

Date Received: 05/18/22

Project: SOU_1249-001-06_ 20220518, F&BI 205318

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

Laboratory Code: 205312-01 (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	89	91	70-130	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	89	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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 analyte 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 due to sample matrix effects.

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.

205318

SAMPLE CHAIN OF CUSTODY

05-18-22

412

Send Report to Chris Cass; Chris Carter; Jonathan Loeffler

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

SAMPLES (signature)

PROJECT NAME/NO.

Ballard Blocks II Property; Arsenic Treatment System Water Sampling

PO #

1249-001-06

REMARKS

Page # 1 of 1

TURNAROUND TIME
Standard (5 days)

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
								Total Arsenic (200.8)				
1249_GW_INF_20220518	Influent	N/A	01	5/18/22	1355	Water	1	X				HNO ₃ preserved
1249_GW_MID01_20220518	First Mid-Treatment	N/A	02		1350		1	X				HNO ₃ preserved
1249_GW_MID02_20220518	Second Mid-Treatment	N/A	03		1345		1	X				HNO ₃ preserved
1249_GW_EFF_20220518	Effluent	N/A	04		1340		1	X				HNO ₃ preserved

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

June 30, 2022

Chris Cass, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Cass:

Included are the results from the testing of material submitted on June 22, 2022 from the SOU_1249-001-06_ 20220622, F&BI 206390 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. 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
SOU0630R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 22, 2022 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20220622, F&BI 206390 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
206390 -01	1249_GW_INF_20220622
206390 -02	1249_GW_MID01_20220622
206390 -03	1249_GW_MID02_20220622
206390 -04	1249_GW_EFF_20220622

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_INF_20220622	Client:	SoundEarth Strategies
Date Received:	06/22/22	Project:	SOU_1249-001-06_20220622
Date Extracted:	06/28/22	Lab ID:	206390-01
Date Analyzed:	06/28/22	Data File:	206390-01.101
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	16.2
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID01_20220622	Client:	SoundEarth Strategies
Date Received:	06/22/22	Project:	SOU_1249-001-06_20220622
Date Extracted:	06/28/22	Lab ID:	206390-02
Date Analyzed:	06/28/22	Data File:	206390-02.102
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	1.61
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID02_20220622	Client:	SoundEarth Strategies
Date Received:	06/22/22	Project:	SOU_1249-001-06_20220622
Date Extracted:	06/28/22	Lab ID:	206390-03
Date Analyzed:	06/28/22	Data File:	206390-03.103
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	1.12
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_EFF_20220622	Client:	SoundEarth Strategies
Date Received:	06/22/22	Project:	SOU_1249-001-06_20220622
Date Extracted:	06/28/22	Lab ID:	206390-04
Date Analyzed:	06/28/22	Data File:	206390-04.104
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1249-001-06_ 20220622
Date Extracted:	06/29/22	Lab ID:	I2-446 mb
Date Analyzed:	06/29/22	Data File:	I2-446 mb.048
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/22

Date Received: 06/22/22

Project: SOU_1249-001-06_ 20220622, F&BI 206390

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

Laboratory Code: 206409-01 (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	6.13	96	98	70-130	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	87	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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 analyte 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 due to sample matrix effects.

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.

206399 SAMPLE CHAIN OF CUSTODY NE 6/22/22

413

Send Report to Chris Cass: Chris Carter; Jonathan Loeffler

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) <i>[Signature]</i>		PO #
PROJECT NAME/NO. <i>[Signature]</i>		1249-001-06
REMARKS Ballard Blocks II Property; Arsenic Treatment System Water Sampling		

Page # 1 of 1
TURNAROUND TIME Standard (5 days)
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
								Total Arsenic (200.8)			
1249_GW_INF_20220622	Influent	N/A	01	6/22/22	1320	Water	1	X			HNO ₃ preserved
1249_GW_MID01_20220622	First Mid-Treatment	N/A	02		1315		1	X			HNO ₃ preserved
1249_GW_MID02_20220622	Second Mid-Treatment	N/A	03		1310		1	X			HNO ₃ preserved
1249_GW_EFF_20220622	Effluent	N/A	04		1305		1	X			HNO ₃ preserved
<i>[Signature]</i> 6/22/22											



SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>[Signature]</i>	JONATHAN LOEFFLER	SOUNDEARTH	6/22/22	1450
Received by: <i>[Signature]</i>	Nhan Phan	FE B.T	6/22/22	1450
Relinquished by:				
Received by:		Samples received at	4	eg

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

July 29, 2022

Chris Cass, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Cass:

Included are the results from the testing of material submitted on July 25, 2022 from the SOU_1249-001-06_ 20220725, F&BI 207410 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. 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: Chris Carter, Jonathan Loeffler
SOU0729R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 25, 2022 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20220725, F&BI 207410 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
207410 -01	1249_GW_INF_20220725
207410 -02	1249_GW_MID01_20220725
207410 -03	1249_GW_MID02_20220725
207410 -04	1249_GW_EFF_20220725

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_INF_20220725	Client:	SoundEarth Strategies
Date Received:	07/25/22	Project:	SOU_1249-001-06_20220725, F&BI 207410
Date Extracted:	07/26/22	Lab ID:	207410-01
Date Analyzed:	07/26/22	Data File:	207410-01.121
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
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Arsenic	20.3
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID01_20220725	Client:	SoundEarth Strategies
Date Received:	07/25/22	Project:	SOU_1249-001-06_20220725, F&BI 207410
Date Extracted:	07/26/22	Lab ID:	207410-02
Date Analyzed:	07/26/22	Data File:	207410-02.122
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
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Arsenic	4.29
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID02_20220725	Client:	SoundEarth Strategies
Date Received:	07/25/22	Project:	SOU_1249-001-06_20220725, F&BI 207410
Date Extracted:	07/26/22	Lab ID:	207410-03
Date Analyzed:	07/26/22	Data File:	207410-03.123
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	4.50
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_EFF_20220725	Client:	SoundEarth Strategies
Date Received:	07/25/22	Project:	SOU_1249-001-06_20220725, F&BI 207410
Date Extracted:	07/26/22	Lab ID:	207410-04
Date Analyzed:	07/26/22	Data File:	207410-04.124
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1249-001-06_ 20220725, F&BI 207410
Date Extracted:	07/26/22	Lab ID:	I2-503 mb2
Date Analyzed:	07/26/22	Data File:	I2-503 mb2.120
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/29/22

Date Received: 07/25/22

Project: SOU_1249-001-06_ 20220725, F&BI 207410

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

Laboratory Code: 207385-01 x10 (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	13.5	94	92	70-130	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	95	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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 analyte 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 due to sample matrix effects.

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.

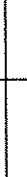
vo - The value reported fell outside the control limits established for this analyte.

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

AT 5

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	Total Arsenic (200.8)				Notes
1249_GW_INF_20220725	Influent	N/A	01	7/25/22	1325	Water	1	X				HNO ₃ preserved
1249_GW_MID01_20220725	First Mid-Treatment	N/A	02		1320		1	X				HNO ₃ preserved
1249_GW_MID02_20220725	Second Mid-Treatment	N/A	03		1315		1	X				HNO ₃ preserved
1249_GW_EFF_20220725	Effluent	N/A	04		1310		1	X				HNO ₃ preserved
 7/25/22												

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	JONATHAN LOEFFLER	SOUNDCARTH	7/25/12	1427
Received by: 	Jonathan Loeffler	F&B	7/25/12	1427
Relinquished by:				
Received by:		Samples received at 5 00		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

August 26, 2022

Chris Cass, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Cass:

Included are the results from the testing of material submitted on August 18, 2022 from the SOU_1249-001-06_ 20220818, F&BI 208282 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. 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: Chris Carter, Jonathan Loeffler
SOU0826R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 18, 2022 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20220818, F&BI 208282 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
208282 -01	1249_GW_INF-20220818
208282 -02	1249_GW_MID01-20220818
208282 -03	1249_GW_MID02-20220818
208282 -04	1249_GW_EFF-20220818

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_INF-20220818	Client:	SoundEarth Strategies
Date Received:	08/18/22	Project:	SOU_1249-001-06_20220818
Date Extracted:	08/22/22	Lab ID:	208282-01
Date Analyzed:	08/22/22	Data File:	208282-01.130
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	18.8
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID01-20220818	Client:	SoundEarth Strategies
Date Received:	08/18/22	Project:	SOU_1249-001-06_ 20220818
Date Extracted:	08/22/22	Lab ID:	208282-02
Date Analyzed:	08/22/22	Data File:	208282-02.131
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	1.32
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID02-20220818	Client:	SoundEarth Strategies
Date Received:	08/18/22	Project:	SOU_1249-001-06_ 20220818
Date Extracted:	08/22/22	Lab ID:	208282-03
Date Analyzed:	08/22/22	Data File:	208282-03.135
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_EFF-20220818	Client:	SoundEarth Strategies
Date Received:	08/18/22	Project:	SOU_1249-001-06_ 20220818
Date Extracted:	08/22/22	Lab ID:	208282-04
Date Analyzed:	08/22/22	Data File:	208282-04.136
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1249-001-06_ 20220818
Date Extracted:	08/22/22	Lab ID:	I2-570 mb
Date Analyzed:	08/22/22	Data File:	I2-570 mb.109
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/26/22

Date Received: 08/18/22

Project: SOU_1249-001-06_ 20220818, F&BI 208282

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

Laboratory Code: 208252-03 (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	93	94	70-130	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	91	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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 analyte 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 due to sample matrix effects.

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.

208282

SAMPLE CHAIN OF CUSTODY

8/18/22

473

Page # 1 of 1

SAMPLES (signature)

PROJECT NAME/NO.

Ballard Blocks II Property; Arsenic Treatment System Water Sampling

PO #

1249-001-06

REMARKS

TURNAROUND TIME
Standard (5 days)

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	Total Arsenic (200.8)	ANALYSES REQUESTED	Notes
1249_GW_INF_20220818	Influent	N/A	01	8/18/22	1410	WATER	1	X	HNO ₃ preserved	
1249_GW_MID01_20220818	First Mid-Treatment	N/A	02		1405		1	X	HNO ₃ preserved	
1249_GW_MID02_20220818	Second Mid-Treatment	N/A	03		1400		1	X	HNO ₃ preserved	
1249_GW_EFF_20220818	Effluent	N/A	04		1355		1	X	HNO ₃ preserved	
<i>[Signature]</i> 8/18/22										

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: *[Signature]*

JONATHAN LOEFFLER

SOUNDEARTH

8/18/22 1508

Received by: *[Signature]*

HONG NGUYEN

FBI

8/18/22 15:08

Relinquished by:

[Signature]

HONG NGUYEN

FBI

8/18/22 15:08

Received by:

[Signature]

HONG NGUYEN

FBI

8/18/22 15:08

SoundEarth
Strategies

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 27, 2022

Chris Cass, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Cass:

Included are the results from the testing of material submitted on September 21, 2022 from the SOU_1249-001-06_ 20220921, F&BI 209328 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. 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: Chris Carter, Jonathan Loeffler
SOU0927R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 21, 2022 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20220921, F&BI 209328 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
209328 -01	1249_GW_INF_20220921
209328 -02	1249_GW_MID01_20220921
209328 -03	1249_GW_MID02_20220921
209328 -04	1249_GW_EFF_20220921

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_INF_20220921	Client:	SoundEarth Strategies
Date Received:	09/21/22	Project:	SOU_1249-001-06_20220921, F&BI 209328
Date Extracted:	09/22/22	Lab ID:	209328-01
Date Analyzed:	09/22/22	Data File:	209328-01.141
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	21.8
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID01_20220921	Client:	SoundEarth Strategies
Date Received:	09/21/22	Project:	SOU_1249-001-06_20220921, F&BI 209328
Date Extracted:	09/22/22	Lab ID:	209328-02
Date Analyzed:	09/22/22	Data File:	209328-02.142
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	7.06
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID02_20220921	Client:	SoundEarth Strategies
Date Received:	09/21/22	Project:	SOU_1249-001-06_20220921, F&BI 209328
Date Extracted:	09/22/22	Lab ID:	209328-03
Date Analyzed:	09/22/22	Data File:	209328-03.143
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_EFF_20220921	Client:	SoundEarth Strategies
Date Received:	09/21/22	Project:	SOU_1249-001-06_20220921, F&BI 209328
Date Extracted:	09/22/22	Lab ID:	209328-04
Date Analyzed:	09/22/22	Data File:	209328-04.156
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1249-001-06_ 20220921, F&BI 209328
Date Extracted:	09/22/22	Lab ID:	I2-671 mb
Date Analyzed:	09/22/22	Data File:	I2-671 mb.108
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/27/22

Date Received: 09/21/22

Project: SOU_1249-001-06_ 20220921, F&BI 209328

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

Laboratory Code: 209223-01 (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	93	94	70-130	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	97	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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 analyte 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 due to sample matrix effects.

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.

209328

SAMPLE CHAIN OF CUSTODY

04-21-22

412

Send report to Chris Cass: Chris Carter: Jonathan Loeffler

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) <u>[Signature]</u>		Page # <u>1</u> of <u>1</u>
PROJECT NAME/NO. <u>Ballard Blocks II Property; Arsenic Treatment System Water Sampling</u>		TURNAROUND TIME Standard (5 days)
PO # <u>1249-001-06</u>	Rush charges authorized by:	
REMARKS		
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
								Total Arsenic (200.8)		
1249_GW_INF_20220921	Influent	N/A	01	9/21/22	1415	Water	1	X		HNO ₃ preserved
1249_GW_MID01_20220921	First Mid-Treatment	N/A	02		1410		1	X		HNO ₃ preserved
1249_GW_MID02_20220921	Second Mid-Treatment	N/A	03		1405		1	X		HNO ₃ preserved
1249_GW_EFF_20220921	Effluent	N/A	04		1400		1	X		HNO ₃ preserved
9/21/22										



SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>		JONATHAN LOEFFLER		SOUNDEARTH		9/21/22	1535
Received by: <u>[Signature]</u>		JONAS STEWART		SEI		9/21/22	1535
Relinquished by:							
Received by:				Samples received at		4	00

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 30, 2022

Chris Cass, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Cass:

Included are the results from the testing of material submitted on September 21, 2022 from the SOU_1249-001-06 210_ 20220921, F&BI 209330 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. 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: Chris Carter, Jonathan Loeffler
SOU0930R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 21, 2022 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06 210_ 20220921, F&BI 209330 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
209330 -01	1249_SSGW_20220921

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_SSGW_20220921	Client:	SoundEarth Strategies
Date Received:	09/21/22	Project:	SOU_1249-001-06 210_ 20220921
Date Extracted:	09/26/22	Lab ID:	209330-01
Date Analyzed:	09/26/22	Data File:	209330-01.175
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	15.9
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1249-001-06 210_ 20220921
Date Extracted:	09/26/22	Lab ID:	I2-682 mb
Date Analyzed:	09/26/22	Data File:	I2-682 mb.072
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/30/22

Date Received: 09/21/22

Project: SOU_1249-001-06 210_ 20220921, F&BI 209330

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

Laboratory Code: 209383-01 x10 (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	17.2	54 b	70	70-130	26 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	103	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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 analyte 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 due to sample matrix effects.

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.

ATI

ATI

Page # 1 of 1
TURNAROUND TIME

Page # 1 of 1
TURNAROUND TIME
Standard (5 day)

Rush charges authorized by:

SAMPLE DISPOSAL

Will call with instructions

[illegible]