



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

May 27, 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 FIRST SEMIANNUAL GROUNDWATER MONITORING EVENT: MARCH 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 first semiannual groundwater monitoring event performed in March 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 fourth quarter of 2021 and the first quarter of 2022.

September 2021 through March 2022 Permanent Arsenic Treatment System 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 September 29, October 20, November 18, and December 20, 2021, and January 22, February 16, and March 24, 2022. To improve the efficacy of the treatment system, a third arsenic-targeting media treatment vessel was added to the treatment system train in February 2021.

During the September 2021 through February 2022 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; and a post-treatment effluent water monitoring port (EFF) located immediately downstream of the permanent arsenic-treatment system vessels. In March 2022, a second mid-treatment system monitoring port (MID02) was installed between the second and third arsenic-targeting media treatment vessels. The March 2022 monitoring event included the collection of water samples from all four water monitoring ports. 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 First Semiannual Subgrade Drainage Groundwater Monitoring Event (March 2022)

A subgrade drainage groundwater sample was collected from the subgrade groundwater collection sump inlet pipes on March 24, 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 March 24, 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 pipe producing water from the sub-slab drainage system on March 24, 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 1.3 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.

September 2021 through March 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_20210929
- 1249_GW_EFF_20211020
- 1249_GW_EFF_20211118
- 1249_GW_EFF_20211220
- 1249_GW_EFF_20220122
- 1249_GW_EFF_20220216
- 1249_GW_EFF_20220324

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 September 29, October 20, November 18, and December 20, 2021, and January 22, February 16, and March 24, 2022.

Year 3 First Semiannual Subgrade Drainage Groundwater Monitoring Event Results (March 2022)

The March 2022 Year 3 first semiannual flow-weighted water sample (sample ID 1249_SSGW_20220324) was collected from the subgrade groundwater drainage system on March 24, 2022, prior to treatment through the permanent arsenic treatment system. Arsenic was detected at a concentration of 15.7 $\mu\text{g/L}$ 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_20220324) was collected on March 24, 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 event is planned for the third quarter of 2022 (the Year 3 second semiannual 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.

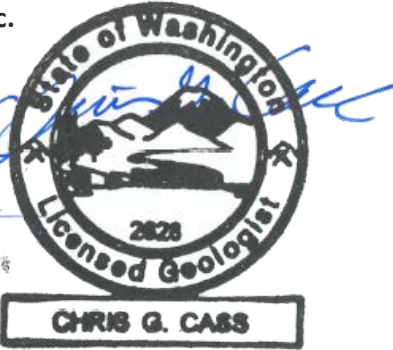
Opinions and recommendations contained in this report are derived, in part, from data gathered by others, and from conditions evaluated when services were performed, and are intended only for the client, purposes, locations, time frames, and project parameters indicated. SoundEarth does not warrant and 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 G. CASS

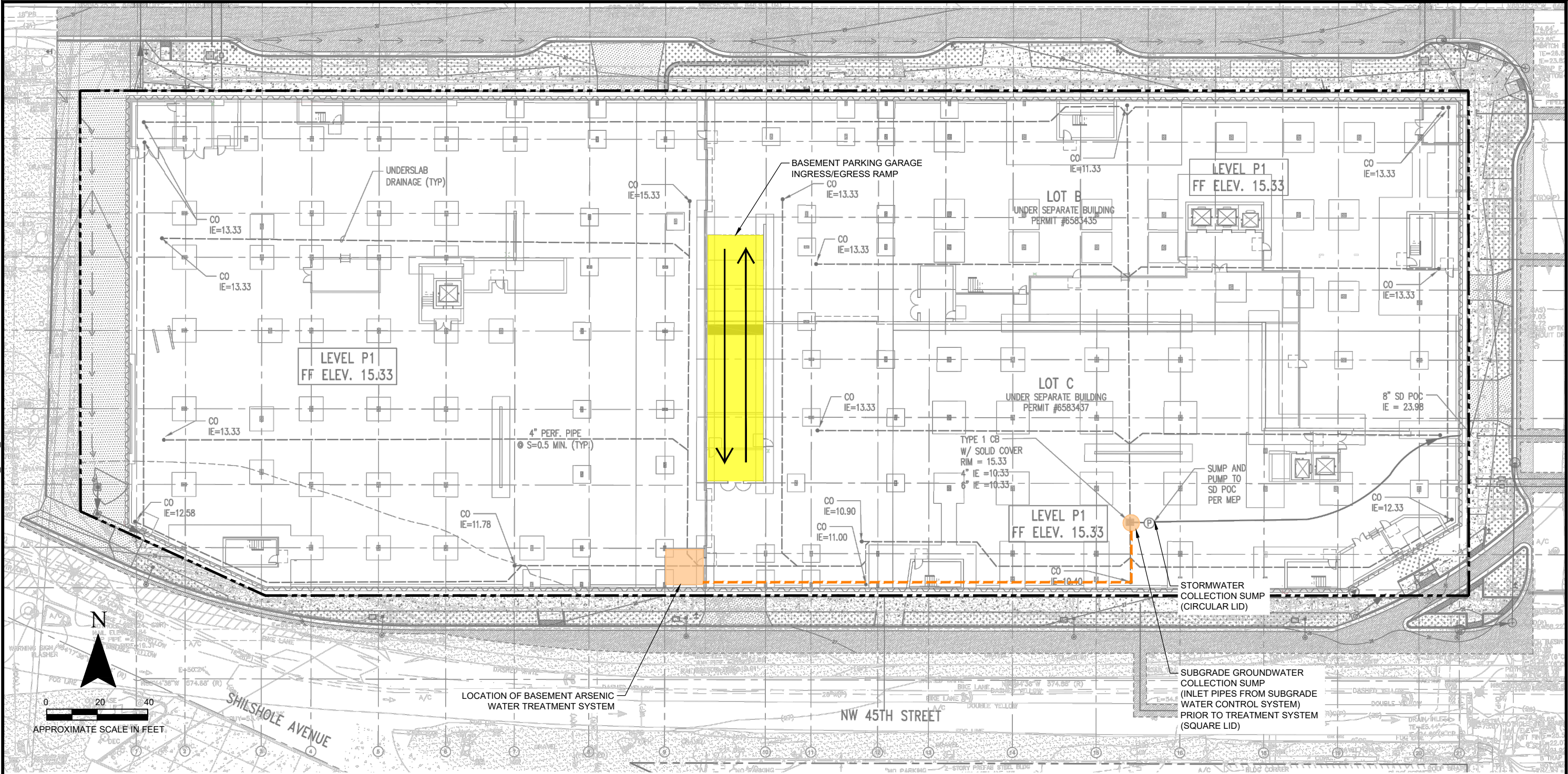

Chris M. Carter
Managing Principal

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. #110026
Friedman & Bruya, Inc. #110400
Friedman & Bruya, Inc. #111355
Friedman & Bruya, Inc. #112461
Friedman & Bruya, Inc. #201349
Friedman & Bruya, Inc. #202349
Friedman & Bruya, Inc. #203448
Friedman & Bruya, Inc. #203450

cc: Eric Silvers, Regency Centers Corporation

JSL/kar

FIGURE



LEGEND

- PROPERTY BOUNDARY
- BASEMENT PARKING GARAGE INGRESS/EGRESS RAMP

NOTE:

BASEMAP PROVIDED BY WEBER THOMPSON/KPFF, 2018.



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
				Second Mid-Treatment System Sampling Port Installed in March 2022	
1249_GW_INF/MID01/MID02/EFF_20220324	03/24/22	15.3	15.4	4.74	<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

GPM = gallons per minute

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
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

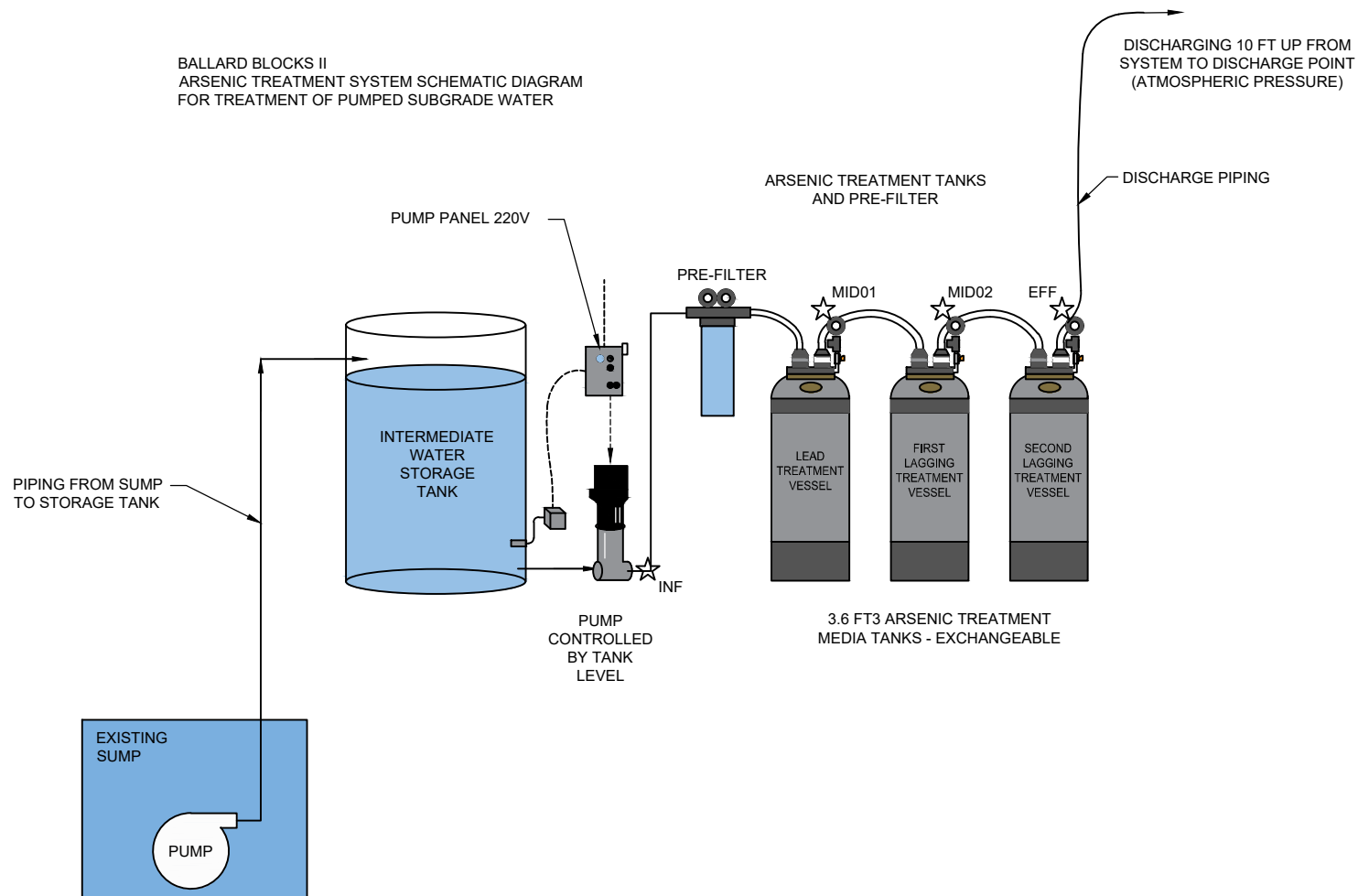
MTCA = Washington State Model Toxics Control Act

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.
Arina Podnozova, B.S.
Eric Young, B.S.

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

October 11, 2021

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 October 1, 2021 from the SOU_1249-001-06_ 20211001, F&BI 110026 project. There are 7 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
SOU1011R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 1, 2021 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20211001, F&BI 110026 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
110026 -01	1249_GW_INF_20210929
110026 -02	1249_GW_MID_20210929
110026 -03	1249_GW_EFF_20210929

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_20210929	Client:	SoundEarth Strategies
Date Received:	10/01/21	Project:	SOU_1249-001-06_ 20211001
Date Extracted:	10/04/21	Lab ID:	110026-01
Date Analyzed:	10/07/21	Data File:	110026-01.192
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	18.2
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID_20210929	Client:	SoundEarth Strategies
Date Received:	10/01/21	Project:	SOU_1249-001-06_20211001
Date Extracted:	10/04/21	Lab ID:	110026-02
Date Analyzed:	10/07/21	Data File:	110026-02.197
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	13.4
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_EFF_20210929	Client:	SoundEarth Strategies
Date Received:	10/01/21	Project:	SOU_1249-001-06_20211001
Date Extracted:	10/04/21	Lab ID:	110026-03
Date Analyzed:	10/07/21	Data File:	110026-03.198
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

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_ 20211001
Date Extracted:	10/04/21	Lab ID:	I1-623 mb
Date Analyzed:	10/04/21	Data File:	I1-623 mb.082
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: 10/11/21

Date Received: 10/01/21

Project: SOU_1249-001-06_ 20211001, F&BI 110026

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

Laboratory Code: 110024-02 (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	7.66	106	106	70-130	0

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.

五

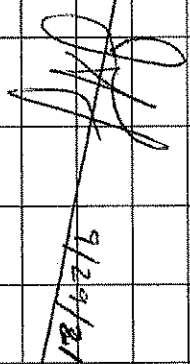
SAMPLE CHAIN OF CUSTODY

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

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_20210929	Influent	N/A	01	9/29/21	1530	WATER	1	X				HNO ₃ preserved
1249_GW_MID_20210929	Mid-Treatment	N/A	02	9/29/21	1525	WATER	1	X				HNO ₃ preserved
1249_GW_EFF_20210929	Effluent	N/A	03	9/29/21	1520	WATER	1	X				HNO ₃ preserved
												

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
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(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 26, 2021

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 October 20, 2021 from the SOU_1249-001-06_ 20211020, F&BI 110400 project. There are 7 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
SOU1026R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 20, 2021 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20211020, F&BI 110400 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
110400 -01	1249_GW_INF_20211020
110400 -02	1249_GW_MID_20211020
110400 -03	1249_GW_EFF_20211020

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_20211020	Client:	SoundEarth Strategies
Date Received:	10/20/21	Project:	SOU_1249-001-06_ 20211020
Date Extracted:	10/21/21	Lab ID:	110400-01
Date Analyzed:	10/21/21	Data File:	110400-01.143
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	20.7
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID_20211020	Client:	SoundEarth Strategies
Date Received:	10/20/21	Project:	SOU_1249-001-06_20211020
Date Extracted:	10/21/21	Lab ID:	110400-02
Date Analyzed:	10/21/21	Data File:	110400-02.144
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	17.4
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_EFF_20211020	Client:	SoundEarth Strategies
Date Received:	10/20/21	Project:	SOU_1249-001-06_ 20211020
Date Extracted:	10/21/21	Lab ID:	110400-03
Date Analyzed:	10/21/21	Data File:	110400-03.145
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

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_ 20211020
Date Extracted:	10/21/21	Lab ID:	I1-673 mb
Date Analyzed:	10/21/21	Data File:	I1-673 mb.127
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/26/21

Date Received: 10/20/21

Project: SOU_1249-001-06_ 20211020, F&BI 110400

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

Laboratory Code: 110335-01 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	567	0 b	0 b	70-130	0 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	93	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

10-20-21 AT2

110400

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

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

SAMPLERS (signature)

PROJECT NAME/NO.

PO #

Ballard Blocks II Property, Arsenic

1249-001-06

Treatment System Water Sampling

REMARKS

ANALYSES REQUESTED

Notes

Total Arsenic (200.8)

Sample ID

Sample Location

Sample Depth

Lab ID

Date Sampled

Time Sampled

Matrix

of Jars

1249_GW_INF_20211020

Influent

N/A

01

10/20/21

1420

Water

1

X

HNO3 preserved

1249_GW_MID_20211020

Mid-Treatment

N/A

02

10/20/21

1415

Water

1

X

HNO3 preserved

1249_GW_EFF_20211020

Effluent

N/A

03

10/20/21

1430

Water

1

X

HNO3 preserved

10/20/21

Samples received at 14 °C

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

JONATHAN LOEFFLER

SOUNDEARTH

10/20/21

1655

Received by:

Eric Loeffler

Inc

10/20/21

1655

Relinquished by:

Received by:

SoundEarth Strategies

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

November 23, 2021

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 November 18, 2021 from the SOU_1249-001-06_ 20211118, F&BI 111355 project. There are 7 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
SOU1123R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 18, 2021 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20211118, F&BI 111355 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
111355 -01	1249_GW_INF_20211118
111355 -02	1249_GW_MID_20211118
111355 -03	1249_GW_EFF_20211118

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_20211118	Client:	SoundEarth Strategies
Date Received:	11/18/21	Project:	SOU_1249-001-06_20211118
Date Extracted:	11/19/21	Lab ID:	111355-01
Date Analyzed:	11/19/21	Data File:	111355-01.121
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Arsenic	18.2
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID_20211118	Client:	SoundEarth Strategies
Date Received:	11/18/21	Project:	SOU_1249-001-06_20211118
Date Extracted:	11/19/21	Lab ID:	111355-02
Date Analyzed:	11/19/21	Data File:	111355-02.129
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Arsenic	17.8
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_EFF_20211118	Client:	SoundEarth Strategies
Date Received:	11/18/21	Project:	SOU_1249-001-06_ 20211118
Date Extracted:	11/19/21	Lab ID:	111355-03
Date Analyzed:	11/19/21	Data File:	111355-03.130
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_ 20211118
Date Extracted:	11/19/21	Lab ID:	I1-766 mb
Date Analyzed:	11/19/21	Data File:	I1-766 mb.042
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: 11/23/21

Date Received: 11/18/21

Project: SOU_1249-001-06_ 20211118, F&BI 111355

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

Laboratory Code: 111327-01 (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	4.46	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	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.

473

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

1249-001-06

**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_20211118	Influent	N/A	01	11/18/21	1455	WATER	1	X				HNO ₃ preserved
1249_GW_MID_20211118	Mid-Treatment	N/A	02	11/18/21	1450	WATER	1	X				HNO ₃ preserved
1249_GW_EFF_20211118	Effluent	N/A	03	11/18/21	1445	WATER	1	X				HNO ₃ preserved
 11/18/21												

[illegible]

10

1720

Southern Cross

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

December 29, 2021

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 December 22, 2021 from the SOU_ 1249-001-06_ 20211222, F&BI 112461 project. There are 7 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
SOU1229R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 22, 2021 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_ 1249-001-06_ 20211222, F&BI 112461 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
112461 -01	1249_GW_INF_20211220
112461 -02	1249_GW_MID_20211220
112461 -03	1249_GW_EFF_20211220

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_20211220	Client:	SoundEarth Strategies
Date Received:	12/22/21	Project:	SOU_ 1249-001-06_ 20211222
Date Extracted:	12/23/21	Lab ID:	112461-01
Date Analyzed:	12/23/21	Data File:	112461-01.048
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	14.0
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID_20211220	Client:	SoundEarth Strategies
Date Received:	12/22/21	Project:	SOU_ 1249-001-06_ 20211222
Date Extracted:	12/23/21	Lab ID:	112461-02
Date Analyzed:	12/23/21	Data File:	112461-02.053
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Arsenic	15.7
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_EFF_20211220	Client:	SoundEarth Strategies
Date Received:	12/22/21	Project:	SOU_ 1249-001-06_ 20211222
Date Extracted:	12/23/21	Lab ID:	112461-03
Date Analyzed:	12/23/21	Data File:	112461-03.056
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Arsenic	1.46
---------	------

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_ 20211222
Date Extracted:	12/23/21	Lab ID:	I1-861 mb
Date Analyzed:	12/23/21	Data File:	I1-861 mb.046
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: 12/29/21

Date Received: 12/22/21

Project: SOU_ 1249-001-06_ 20211222, F&BI 112461

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

Laboratory Code: 112461-02 (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	15.7	101	93	70-130	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	96	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.

472

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

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	JONATHAN LOEFFLER	SoundEarth	12/22/21	1620
Received by: 	VIN/H	FB1	12/22/21	1620
Relinquished by:				
Received by:		Samples received at	3	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

January 31, 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 January 25, 2022 from the SOU_1249-001-06_ 20220125, F&BI 201349 project. There are 7 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
SOU0131R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 25, 2022 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20220125, F&BI 201349 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
201349 -01	1249_GW_INF_20220122
201349 -02	1249_GW_MID_20220122
201349 -03	1249_GW_EFF_20220122

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_20220122	Client:	SoundEarth Strategies
Date Received:	01/25/22	Project:	SOU_1249-001-06_ 20220125
Date Extracted:	01/27/22	Lab ID:	201349-01
Date Analyzed:	01/28/22	Data File:	201349-01.272
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Arsenic	10.6
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID_20220122	Client:	SoundEarth Strategies
Date Received:	01/25/22	Project:	SOU_1249-001-06_20220125
Date Extracted:	01/27/22	Lab ID:	201349-02
Date Analyzed:	01/28/22	Data File:	201349-02.273
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Arsenic	10.1
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_EFF_20220122	Client:	SoundEarth Strategies
Date Received:	01/25/22	Project:	SOU_1249-001-06_ 20220125
Date Extracted:	01/27/22	Lab ID:	201349-03
Date Analyzed:	01/28/22	Data File:	201349-03.274
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Arsenic	1.20
---------	------

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_ 20220125
Date Extracted:	01/27/22	Lab ID:	I2-76 mb
Date Analyzed:	01/27/22	Data File:	I2-76 mb.104
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: 01/31/22

Date Received: 01/25/22

Project: SOU_1249-001-06_ 20220125, F&BI 201349

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

Laboratory Code: 201355-01 (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	358	132 b	242 b	70-130	59 b

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.

4

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

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_JNF_20220122	Influent	N/A	01	1/22/22	1550	Water	1	X			HNO ₃ preserved
1249_GW_MID_20220122	Mid-Treatment	N/A	02	1/22/22	1545	Water	1	X			HNO ₃ preserved
1249_GW_EFF_20220122	Effluent	N/A	03	1/22/22	1540	Water	1	X			HNO ₃ preserved
Signature:  Date: 1/22/22											

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	JONATHAN LOEFFLER	SCUNDERBATH	1/25/22	15:27
Received by: 	Khoi Hoang	EBF	1/25/22	15:27
Relinquished by:				
Received by:		Samples	received at	4 °C

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

February 23, 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 February 17, 2022 from the SOU_1249-001-06_ 20220217, F&BI 202349 project. There are 7 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 Cass, Jonathan Loeffler
SOU0223R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 17, 2022 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20220217, F&BI 202349 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
202349 -01	1249_GW_INF_20220216
202349 -02	1249_GW_MID_20220216
202349 -03	1249_GW_EFF_20220216

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_20220216	Client:	SoundEarth Strategies
Date Received:	02/17/22	Project:	SOU_1249-001-06_ 20220217
Date Extracted:	02/18/22	Lab ID:	202349-01
Date Analyzed:	02/18/22	Data File:	202349-01.180
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	20.9
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID_20220216	Client:	SoundEarth Strategies
Date Received:	02/17/22	Project:	SOU_1249-001-06_ 20220217
Date Extracted:	02/18/22	Lab ID:	202349-02
Date Analyzed:	02/18/22	Data File:	202349-02.181
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Arsenic	20.7
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_EFF_20220216	Client:	SoundEarth Strategies
Date Received:	02/17/22	Project:	SOU_1249-001-06_20220217
Date Extracted:	02/18/22	Lab ID:	202349-03
Date Analyzed:	02/18/22	Data File:	202349-03.182
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_ 20220217
Date Extracted:	02/18/22	Lab ID:	I2-130 mb2
Date Analyzed:	02/18/22	Data File:	I2-130 mb2.089
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: 02/23/22

Date Received: 02/17/22

Project: SOU_1249-001-06_ 20220217, F&BI 202349

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

Laboratory Code: 202312-01 (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	2.78	110	114	70-130	4

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.

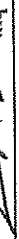
ATU

TURNAROUND TIME
Standard (5 days)

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

Dispose after 30 days
Return samples
Will call with instructions

[illegible]

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	JONATHAN LOEFFLER	SOUND EARTH	2/17/22	1645
Received by: 	J. N. A.	FBI	2/17/22	1647
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

March 31, 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 March 24, 2022 from the SOU_1249-001-06_ 20220324, F&BI 203448 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 Loffler
SOU0331R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 24, 2022 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20220324, F&BI 203448 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
203448 -01	1249_GW_INF_20220324
203448 -02	1249_GW_MID01_20220324
203448 -03	1249_GW_EFF_20220324
203448 -04	1249_GW_MID02_20220324

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_20220324	Client:	SoundEarth Strategies
Date Received:	03/24/22	Project:	SOU_1249-001-06_ 20220324
Date Extracted:	03/28/22	Lab ID:	203448-01
Date Analyzed:	03/28/22	Data File:	203448-01.119
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	AR

Analyte:	Concentration ug/L (ppb)
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Arsenic	15.3
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_MID01_20220324	Client:	SoundEarth Strategies
Date Received:	03/24/22	Project:	SOU_1249-001-06_20220324
Date Extracted:	03/28/22	Lab ID:	203448-02
Date Analyzed:	03/28/22	Data File:	203448-02.120
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	AR

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

Arsenic	15.4
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_GW_EFF_20220324	Client:	SoundEarth Strategies
Date Received:	03/24/22	Project:	SOU_1249-001-06_20220324
Date Extracted:	03/28/22	Lab ID:	203448-03
Date Analyzed:	03/28/22	Data File:	203448-03.121
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	AR

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_MID02_20220324	Client:	SoundEarth Strategies
Date Received:	03/24/22	Project:	SOU_1249-001-06_20220324
Date Extracted:	03/28/22	Lab ID:	203448-04
Date Analyzed:	03/28/22	Data File:	203448-04.122
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	AR

Analyte:	Concentration ug/L (ppb)
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Arsenic	4.74
---------	------

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_ 20220324
Date Extracted:	03/28/22	Lab ID:	I2-246 mb
Date Analyzed:	03/28/22	Data File:	I2-246 mb.036
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	AR

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

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/31/22

Date Received: 03/24/22

Project: SOU_1249-001-06_ 20220324, F&BI 203448

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

Laboratory Code: 203409-01 (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	84	87	70-130	4

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.

203 448

SAMPLE CHAIN OF CUSTODY

03-24-22

412

Send Report to Chris Cass: Chris Carter, Jonathan LoefflerCompany SoundEarth Strategies, Inc.Address 2811 Fairview Avenue E, Suite 2000City, State, ZIP Seattle, Washington 98102Phone # 206-306-1900 Fax # 206-306-1907SAMPLERS (signature) [Signature]PROJECT NAME/NO. [Signature]

PO #

Ballard Blocks II Property; Arsenic
Treatment System Water Sampling

1249-001-06

REMARKS

Page # 1 of 1TURNAROUND 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_20220324	Influent	N/A	01	3/24/22	1705	Water	1	X		HNO ₃ preserved
1249_GW_MIDW/20220324	Mid-Cl Treatment	N/A	02	3/24/22	1700	Water	1	X		HNO ₃ preserved
1249_GW_EFF_20220324	Effluent	N/A	03	3/24/22	1650	Water	1	X		HNO ₃ preserved
1249_GW.MIDW-20220324	Mid-Cl Treatment	N/A		3/24/22	1655	Water	1	X		
<u>[Signature]</u>										
<u>3/24/22</u>										

SIGNATURE

PRINT NAME

COMPANY

DATE TIME

Relinquished by: [Signature]

JONATHAN LOEFFLER

SOUNDEARTH

3/24/22 1900

Received by: [Signature]

BISRAI ADDRESS

FBI

3/24/22 1901

Received by:

Samples received at 4:00SoundEarth
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

March 31, 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 March 24, 2022 from the SOU_1249-001-06/210_ 20220324, F&BI 203450 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 Loffler
SOU0331R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 24, 2022 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06/210_ 20220324, F&BI 203450 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
203450 -01	1249_SSGW_20220324

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	1249_SSGW_20220324	Client:	SoundEarth Strategies
Date Received:	03/24/22	Project:	SOU_1249-001-06/210_ 20220324
Date Extracted:	03/28/22	Lab ID:	203450-01
Date Analyzed:	03/28/22	Data File:	203450-01.180
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	AR

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

Arsenic	15.7
---------	------

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_ 20220324
Date Extracted:	03/28/22	Lab ID:	I2-246 mb
Date Analyzed:	03/28/22	Data File:	I2-246 mb.036
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	AR

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

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/31/22

Date Received: 03/24/22

Project: SOU_1249-001-06/210_ 20220324, F&BI 203450

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

Laboratory Code: 203409-01 (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	84	87	70-130	4

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.

A

Doc# 1 of 1

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

Page # 1 of 1

TURNAROUND TIME
(Standard (5 day))

RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL.

Dispose after 30 days

Return samples

Will call with instructions

[illegible]

Source Strategies

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	JONATHAN LOEFFLER	SoundEarth	3/21/22	1900
Received by: 	BISEAT TADESSE	FEI	3/24/22	1900
Relinquished by:				
Received by:		Samples received at	40C	