# Memorandum

To:	Mark Adams and Tena Seeds, Washington State Department of Ecology
CC:	Doug Ciserella and Mike Ciserella, TOC Seattle Terminal 1, LLC Bill Joyce, Joyce Ziker Partners PLLC Grant Hainsworth and Jamie Stevens, CRETE Consulting
From:	Kristin Anderson, LHG, and Lynn Grochala, Floyd Snider
Date:	April 15, 2021
Project No:	Cantera-TOC
Re:	Time Oil Bulk Terminal Site: First Quarter 2021 Progress Report

Floyd|Snider is providing this quarterly progress report for the Time Oil Bulk Terminal Site (Site), in accordance with Section XII of the Prospective Purchaser Consent Decree (PPCD) between the Washington State Department of Ecology (Ecology) and TOC Seattle Terminal 1, LLC. The reporting period for this progress report includes activities performed from execution of the PPCD on October 15, 2020, through March 2021. This includes the first full quarter after the effective date of the PPCD (November 25, 2020).

#### SUMMARY OF ACTIVITIES (SECTION XII.A)

Activities completed during this reporting period, and other activities completed under the PPCD before the start of the reporting period, included the following:

#### **Deliverables and Data Collection**

- Submitted the Agency Review Draft Pre-Remedial Design Investigation Work Plan (PRDI Work Plan) for Ecology review on July 31, 2020. Final Ecology comments on the draft PRDI Work Plan were received on October 6, 2020, and the Final PRDI Work Plan incorporating Ecology comment was submitted on October 20, 2020. The PRDI Work Plan was subsequently approved by Ecology via email correspondence on October 20, 2020.
- Collected pre-remedial design data in accordance with the Final PRDI Work Plan on November 12 to 13, 2020. Initial data collection included soil geotechnical data in Cleanup Action Area (CAA) 4, soil and groundwater geochemical data in CAA-5, and soil characterization data in CAA-7. Additional soil data collection was completed for

CAA-7 on November 30, 2020; December 10, 2020; February 22, 2021; and March 22, 2021.

- Submitted the Agency Review Draft Engineering Design Report (EDR) for Ecology review:
  - Sections 1 to 3 of the EDR main text were submitted on January 25, 2021, and initial Ecology comments on these sections were received on February 2, 2021.
  - Appendix B (PRDI Summary Report) was submitted on February 4, 2021.
  - Remaining portions of the EDR main text, Appendices D through F, and portions of Appendix G were submitted on February 12, 2021.
  - Appendix A (Construction Drawings) was submitted on February 19, 2021.
- Preliminary Ecology comments on the Agency Review Draft EDR were received on March 18 and 23, 2021. Final Ecolgy comments on the Agency Review Draft EDR are expected in mid-April 2021.

#### **Other Activities**

- Submitted Financial Assurance Costs to Ecology on January 22, 2021.
- Coordinated with Washington State Department of Archaeology and Historic Preservation (DAHP), including a meeting with DAHP, CRETE, and TOC Seattle Terminal 1, LLC, on March 15, 2021, regarding the Time Oil warehouse building. Determined in coordination with DAHP that no mitigation or additional documentation is required for the property buildings prior to demolition.
- Decommissioned wells in remediation areas by a licensed driller (ESN Northwest) between March 19 and 23, 2021, with Ecology concurrence received via email on March 18, 2021. Wells were decommissioned in accordance with the Draft Groundwater Monitoring Plan presented in Appendix A of the Cleanup Action Plan and additional feedback provided by Ecology. The injection well system on the Bulk Terminal property was decommissioned concurrently with monitoring wells. An inventory of decommissioned monitoring wells is included as Attachment 1.
- Initiated building abatement activities on March 22, 2021, in preparation for building demolition ahead of remedial construction.
- TOC Seattle Terminal 1, LLC, representative Kim Hempel and Ms. Tena Seeds of Ecology performed a site walk on March 23, 2021, to observe site conditions, topography, etc.
- Obtained permits for remedial construction:
  - Received King County Industrial Waste Discharge Permit on March 25, 2021, and provided the permit to Ecology on March 26, 2021.

 Submitted application documents and completed public notices for National Pollutant Discharge Elimination System permit. This permit is expected to be issued in April 2021.

#### **DESCRIPTION OF DEVIATIONS FROM REQUIRED TASKS (SECTION XII.B)**

None

# ANTICIPATED PROBLEMS IN MEETING SCHEDULE OR OBJECTIVES AND ASSOCIATED SOLUTIONS (SECTIONS XII.C AND XII.D)

• There are no anticipated problems in meeting the schedule of deliverables specified in Exhibit D of the PPCD. The current schedule of deliverables and activities speficied in Table 8.1 of the Cleanup Action Plan (Exhibit C of the PPCD) are currently on track and ahead of schedule.

#### SAMPLING, TESTING, OR OTHER DATA REPORTS RECEIVED (SECTION XII.E)

The following analytical data were collected in accordance with the PRDI Work Plan during this reporting period:

- Soil geotechnical data for in situ stabilization design
- Soil and groundwater geochemical data for PlumeStop design
- Soil analytical data for CAA-7 excavation design

In accordance with Section XII.E, copies of the laboratory reports received through February 4, 2021, were provided with the PRDI Data Summary (Appendix B of the Agency Review Draft EDR). Laboratory reports received during the remainder of the reporting period, for PRDI soil samples collected from CAA-7, are included in Attachment 2. A summary of these data, and their application to remedial design, will also be provided in the revised PRDI Data Summary (Appendix B of the revised EDR).

Laboratory analytical data for soil samples collected as part of the PRDI and additional confirmation samples collected during remedy implementation (for those remaining in place after completion of the remedial action) will be uploaded to Ecology's Environmental Information Management (EIM) system, as required by the PPCD, after completion of remedial construction.

#### ACTIVITIES ANTICIPATED TO BE COMPLETED DURING THE NEXT REPORTING PERIOD (SECTION XII.F)

The following activities are anticipated to be completed during the next quarterly reporting period (April 1 to June 30, 2021):

- Revision of the Agency Review Draft EDR after receipt of final Ecology comments on the draft EDR
- Issuance of remaining permits and contractor mobilization for remedial construction
- Completion of building abatement and demolition of above-grade structures
- Submittal of groundwater, sediment, and in situ soil data collected between August 2018 and July 2019 to Ecology's EIM database

# DELIVERABLES ANTICIPATED TO BE COMPLETED DURING THE NEXT REPORTING PERIOD (SECTION XII.G)

The following deliverables are anticipated to be completed during the next quarterly reporting period of April through June 2021:

• The Final EDR is expected to be submitted in May 2021; the submittal the date will depend on receipt of final Ecology comments on the Agency Review Draft EDR.

#### **OTHER PERTINENT INFORMATION, INCLUDING CHANGES IN KEY PERSONNEL**

None

#### LIST OF ATTACHMENTS

Attachment 1 Inventory of Decommissioned Monitoring Wells

Attachment 2 Laboratory Analytical Reports for CAA-7

Attachment 1 Inventory of Decommissioned Monitoring Wells

Well ID	Well ID	Screen Top	Screen	Intstall Date	Rationale
01MW01	AFF184	10.0	25.00	09/11/1999	Remediation Area
01MW02	AFF185	10.0	25.00	09/11/1999	Remediation Area
01MW04	AFF187	10.0	25.00	09/11/1999	Remediation Area
01MW05	AFF188	10.0	25.00	09/11/1999	Remediation Area
01MW07	AFR605	13.0	28.00	11/27/2000	Remediation Area
01MW09	AFR604	9.0	25.00	11/27/2000	Remediation Area
01MW10	AFR603	9.0	25.00	11/27/2000	Remediation Area
01MW11	AFR606	15.0	30.00	11/28/2000	2-zone well
01MW13	AFR601	5.0	20.00	11/17/2000	Remediation Area
01MW16	AGF506	10.0	20.00	07/19/2001	Remediation Area
01MW18	AGT783	5.0	25.00	03/11/2002	Remediation Area
01MW19	AGT784	5.0	25.00	03/11/2002	Remediation Area
01MW20	AGT785	5.0	25.00	03/11/2002	Remediation Area
01MW24	AHR826	5.0	19.00	12/03/2002	Remediation Area
01MW27	AHR829	5.0	19.00	12/04/2002	Remediation Area
01MW28	AHR830	5.0	23.00	12/05/2002	Remediation Area
01MW29	AHR831	5.0	19.00	12/05/2002	Remediation Area
01MW31	APL576	5.0	15.00	07/06/2006	Dry well
01MW32	APL577	17.0	27.00	07/06/2006	2-zone well
01MW33	APL578	5.0	20.00	07/07/2006	2-zone well
01MW37	APL370	7.5	22.50	09/07/2006	2-zone well
01MW38	APL371	7.5	22.50	09/07/2006	2-zone well
01MW42	APL376	7.0	22.00	09/08/2006	Decommissioned in error- to reinstall
01MW43	APL375	7.0	22.00	09/08/2006	Remediation Area
01MW44	ALN355	15.0	30.00	09/13/2006	Remediation Area
01MW45	ALN356	12.0	27.00	09/13/2006	Remediation Area
01MW54	BBA609	37.0	42	11/13/2008	Remediation Area
01MW55	BBA601	16.0	31	11/13/2008	Remediation Area
01MW59	BBA 615	13.5	28.5	11/17/2008	Remediation Area
01MW62	BBA844	24.0	39	12/30/2008	Remediation Area
01MW63	BBA845	19.5	32	12/30/2008	Remediation Area
01MW64	BBL 514	25.0	40	03/17/2009	Remediation Area
01MW65	BBL 515	52.0	62.00	03/18/2009	Remediation Area
01MW67	BCS163	9.0	24	07/24/2009	Remediation Area
01MW68	BCS164	7.0	22	07/24/2009	Remediation Area
01MW69	BCS165	9.0	24	07/24/2009	Remediation Area
01MW70	BCP158	5.0	20	02/11/2010	Remediation Area
01MW71	BCP159	5.0	20	02/11/2010	Remediation Area
01MW72		3.0	23	03/10/2010	Remediation Area
01MW73	BCP375	3.0	21.5	03/10/2010	Remediation Area
01MW74		4.0	21.5	03/10/2010	BMP- bare PVC and adjacent to 01MW12
01MW75	BCP377	3.0	18	03/10/2010	Remediation Area
01MW76	BHB076	35.0	40	02/28/2011	Remediation Area
01MW77	BHB077	36.0	41	03/03/2011	Remediation Area
01MW78	BHB078	45.0	50	03/03/2011	Remediation Area
01MW79	BHB079	5.0	19	03/03/2011	Remediation Area
01MW81	BHB247	19.5	28.5	04/18/2011	BMP- immediately adjacent to MW05
01MW82	BHB248	19.0	27	04/18/2011	BMP- immediately adjacent to MW05
01MW90	BHM071	3.0	18	12/29/2011	Remediation Area
01MW91	BHM072	3.0	18	12/29/2011	Remediation Area
02MW04	AFF191	10.0	20	09/13/1999	Remediation Area
02MW05	AFF192	20.0	34.5	09/13/1999	Remediation Area
02MW06		9.5	19.5	11/22/2000	Remediation Area
02MW15	BAH915	5.0	15	04/23/2015	Remediation Area

Attachment 1 Inventory of Decommissioned Monitoring Wells

MW03	APK543	7.0	14	04/18/2006	Remediation Area
MW04	APK544	18.0	28	04/18/2006	Remediation Area
01IW09	BCP161	24.0	29.00	02/12/2010	Remediation Area
01IW10	BCP162	24.0	29.00	02/12/2010	Remediation Area
01SVE01	BCP160	5.0	13.00	02/11/2010	Remediation Area

Note:

-- Well ID number unknown; decommissioned under variance granted by Ecology Water Resources Program.

Abbreviation:

bgs Below ground surface

Attachment 2 Laboratory Analytical Reports for CAA-7

#### 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

February 2, 2021

Lynn Grochala, Project Manager Floyd-Snider Two Union Square, Suite 600 601 Union St Seattle, WA 98101

Dear Ms Grochala:

Included are the additional results from the testing of material submitted on November 13, 2020 from the Cantera - TOC, F&BI 011267 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Cale

Michael Erdahl Project Manager

Enclosures c: Kristin Anderson FDS0202R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on November 13, 2020 by Friedman & Bruya, Inc. from the Floyd-Snider Cantera - TOC, F&BI 011267 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd-Snider</u>
011267 -01	Comp1-A-0-0.5
011267 -02	Comp1-A-0.5-1
011267 -03	Comp1-B-0-0.5
011267 -04	Comp1-B-0.5-1
011267 -05	Comp1-D-0-0.5
011267 -06	Comp1-D-0.5-1
011267 -07	Comp1-C-0-0.5
011267 -08	Comp1-C-0.5-1
011267 -09	Comp-1-0-0.5
011267 -10	Comp-1-0.5-1
011267 -11	Comp2-A-0-0.5
011267 -12	Comp2-A-0.5-1
011267 -13	Comp2-B-0-0.5
011267 -14	Comp2-B-0.5-1
011267 -15	Comp2-C-0-0.5
011267 -16	Comp2-C-0.5-1
011267 -17	Comp2-D-0-0.5
011267 -18	Comp2-D-0.5-1
011267 -19	Comp-2-0-0.5
011267 -20	Comp-2-0.5-1
011267 -21	Comp3-A-0-0.5
011267 -22	Comp3-A-0.5-1
011267 -23	Comp3-B-0-0.5
011267 -24	Comp3-B-0.5-1
011267 -25	Comp3-C-0-0.5
011267 -26	Comp3-C-0.5-1
011267 -27	Comp3-D-0-0.5
011267 -28	Comp3-D-0.5-1
011267 -29	Comp-3-0-0.5
011267 -30	Comp-3-0.5-1
011267 -31	Comp4-A-0-0.5
011267 -32	Comp4-A-0.5-1
011267 -33	Comp4-B-0-0.4
011267 -34	Comp4-C-0-0.5
011267 - 35	Comp4-C-0.5-1

### ENVIRONMENTAL CHEMISTS

# CASE NARRATIVE (continued)

011267 -36	Comp4-D-0-0.5
011267 -37	Comp4-D-0.5-1
011267 -38	Comp-4-0-0.5
011267 -39	Comp-4-0.5-1
011267 -40	Comp5-A-0-0.5
011267 -41	Comp5-B-0-0.5
011267 -42	Comp5-B-0.5-1
011267 -43	Comp5-C-0-0.5
011267 -44	Comp5-C-0.5-1
011267 - 45	Comp5-D-0-0.5
011267 -46	Comp5-D-0.5-1
011267 -47	Comp-5-0-0.5
011267 -48	Comp-5-0.5-1
011267 -49	Comp6-A-0-0.5
011267 -50	Comp6-A-0.5-1
011267 - 51	Comp6-B-0-0.5
011267 - 52	Comp6-B-0.5-1
011267 -53	Comp6-C-0-0.5
011267 - 54	Comp6-C-0.5-1
011267 -55	Comp6-C-0.5-1-D
011267 - 56	Comp6-D-0-0.4
011267 - 57	Comp6-D-0-0.4-D
011267 -58	Comp-6-0-0.5
011267 -59	Comp-6-0.5-1
011267 -60	Comp-6-0.5-1-D
011267 -61	Comp7-A-0-0.5
011267 -62	Comp7-A-0.5-1
011267 -63	Comp7-B-0-0.5
011267 -64	Comp7-B-0.5-1
011267 - $65$	Comp7-C-0-0.5
011267 -66	Comp7-C-0.5-1
011267 -67	Comp7-D-0-0.4
011267 -68	Comp-7-0-0.5
011267 -69	Comp-7-0.5-1
011267 -70	SW1-0.25-0.75
011267 -71	SW2-0.25-0.75
011267 -72	SW3-0.25-0.75
011267 -73	SW4-0.25-0.75
011267 -74	SW5-0.25-0.75
011267 -75	SW6-0.25-0.75

### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE (continued)

011267 -76	SW7-0.25-0.75
011267 -77	SW8-0.25-0.75
011267 -78	SW9-0.25-0.75
011267 -79	SW10-0.25-0.75
011267 -80	B1-1.0-1.25
011267 -81	B1-2.0-2.25
011267 -82	B2-1.0-1.25
011267 -83	B2-2.0-2.25
011267 -84	B3-1.0-1.25
011267 -85	B3-2.0-2.25
011267 -86	B3-2.0-2.25-D
011267 -87	B4-1.0-1.25
011267 -88	B4-2.0-2.25

All quality control requirements were acceptable.

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	Comp1-B-0.5-1	Client:	Floyd-Snider
Date Received:	11/13/20	Project:	Cantera - TOC, F&BI 011267
Date Extracted:	01/28/21	Lab ID:	011267-04
Date Analyzed:	01/28/21	Data File:	011267-04.053
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	11.5		

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	Comp1-C-0.5-1	Client:	Floyd-Snider
Date Received:	11/13/20	Project:	Cantera - TOC, F&BI 011267
Date Extracted:	01/28/21	Lab ID:	011267-08
Date Analyzed:	01/28/21	Data File:	011267-08.054
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	6.41		

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	Comp2-A-0.5-1	Client:	Floyd-Snider
Date Received:	11/13/20	Project:	Cantera - TOC, F&BI 011267
Date Extracted:	01/28/21	Lab ID:	011267-12
Date Analyzed:	01/28/21	Data File:	011267-12.057
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	3.54		

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	Comp3-A-0.5-1	Client:	Floyd-Snider
Date Received:	11/13/21	Project:	Cantera - TOC, F&BI 011267
Date Extracted:	01/28/21	Lab ID:	011267-22
Date Analyzed:	01/28/21	Data File:	011267-22.060
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	4.59		

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	Comp3-B-0.5-1	Client:	Floyd-Snider
Date Received:	11/13/20	Project:	Cantera - TOC, F&BI 011267
Date Extracted:	01/28/21	Lab ID:	011267-24
Date Analyzed:	01/28/21	Data File:	011267-24.061
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	3.43		

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	Comp5-B-0.5-1	Client:	Floyd-Snider
Date Received:	11/13/20	Project:	Cantera - TOC, F&BI 011267
Date Extracted:	01/28/21	Lab ID:	011267-42
Date Analyzed:	01/28/21	Data File:	011267-42.062
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	8.68		

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	Comp6-D-0-0.4	Client:	Floyd-Snider
Date Received:	11/13/20	Project:	Cantera - TOC, F&BI 011267
Date Extracted:	01/28/21	Lab ID:	011267-56
Date Analyzed:	01/28/21	Data File:	011267-56.063
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	1.07		

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Floyd-Snider
Date Received:	Not Applicable	Project:	Cantera - TOC, F&BI 011267
Date Extracted:	01/28/21	Lab ID:	I1-53 mb
Date Analyzed:	01/28/21	Data File:	I1-53 mb.051
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/20 Date Received: 11/13/21 Project: Cantera - TOC, F&BI 011267

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 011267-12 x5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	$\operatorname{RPD}$
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	93	96	75-125	3

Laboratory Code: Laboratory Control Sample

Laboratory C	addin Habbilatory com	cioi sumpio	Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	89	80-120

#### 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.

 ${\rm J}$  - 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.

Ph. (206) 285-8282 Sectile, WA 98119-2029 3012 18th Avenue West Friedman & Bruya, Inc. (0Mp - 2 - C - 0.5 -Sontor - cias f COMPJ - C - 0-0.5 0-0-0-2- 20MB 6×MP1 - 0 - 0.5 -COMP1 - D-0-0.5 COMP1-R-0-0,5 COMP1 - A-0.5-1 Report Uty, State, AIT \_\_\_\_\_\_ hrn. or Orace Uters new Project specific RLs? . Yes / No Phone 2. 0 (r. 292. 20) Brnail (With, Md. Kor O'laud suder | Project specific RLs? . Yes / No WMP1-8-0.5-1 City, State, ZIP\_\_\_ Address and Drizz greet Juke 600 company They al Sinder 10MP1 - A-6-6.5 Sample ID Minho Minho Anderson 011267 Scattle, WA 9810) دسارا Relinquished by Received by: Received by: Relinquished by: Ş J ß R 9 ç සි  $\underline{\bigcirc}$ Lab ID Ġ, SIGNATURE ß 11/13/20 492110 Sampled Date  $\leq$ 10011 6:05 9:56 01:40 90:06 7:55 SAMPLE CHAIN OF CUSTODY 018:01 34:15 10:25 Sampled Time PROJECT NAME SAMPLERS (signature) REMARKS CANTERA-TOC 50:1 Sample Ķ Type Same wrishin thousan Jars # of PRINT NAME ali Sty-Laisear NWTPH-Dx NWTPH-Gx BTEX EPA 8021 CANTERA -TOC NWTPH-HCID INVOICE TO 4 VOCs EPA 8260 P0# PAHs EPA 8270 11-13-20 PCBs EPA 8082 E. Samples received at 2 J COMPANY **BOURSFED** R  $\left( < \right)$ Arsenic TBT C Standard turnaround of RUSH As only & down Rush charges authorized by: Default: Dispose after 30 days SAMPLE DISPOSAL O Archive samples O Other TURNAROUND TIME Page #  $\times$  $\times$  $\times$ ×  $\bowtie$  $\times$ Archive × (V) 70, KA . 1/17/24 we tal analysis 02/11/20 OLKU tor addition Hold uslume per KA Ulizler DATE Notes at A -DI LAT - Der -SHA TAT 3- JAY TAT price ultrico 20) 30 ക് 12tel £ THME X h H H b, ě,

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Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. 6MP3-D-0.5-1 6-0-2-0-5 (1210) - C - 0.5-1 COMP3-C-D-6-5 CAMP3-B-0-0.5 CAM03- R-0,5-1 6 M23 - A - 0.5 - 1 ODMP3-A-6-0.5 Phone (DIM-2-0,5-2 City, State, ZIP. Address Report To <u>Xe</u> Company Chyd Snider 2.0-0-2-0-0.5 Sample ID 2000 Email Received by: Relinquished by Received by: Relinquished by: Ļ S 4 22 5 N ig' K N ष्ठ õ Lab ID +92NO SIGNATURE Þ 11/13/20 Sampled Date  $\langle \cdot \rangle$ 1136 i Si 1135 Mille. 5 115 1130 1120 1146 SAMPLE CHAIN OF CUSTODY ME 1125 Sampled Time Project specific RLs? Yes / No SAMPLERS (signature) REMARKS PROJECT NAME CANTER- TOC 100 Sample Type Friter  $\leftarrow$ maria PRINT NAME # of Jars مهي Anderson whi Chip NWTPH-Dx 6860 NWTPH-Gx BTEX EPA 8021 CANTERA -TOC NWTPH-HCID INVOICE TO MALYSES REQUESTED VOCs EPA 8260 # OY PAHs EPA 8270 11-13-20 N. PCBs EPA 8082 COMPANY Z  $\bigotimes$ Hrsenic Samples received at  $\times$  $\overline{\times}$ TBT SAMPLE DISPOSAL M Archive samples O. Standard turnaround D. RUSH Sex. 2446 J. Rush charges authorized by: Default: Dispose after 30 days D Other\_ Page #\_\_\_\_\_\_ TURNABOUND TIME X  $\succ$ ×  $\times$ Archive  $\times$  $\times$  $\times$  $\times$  $\geq$ 02///// July DATE Notes . . 2 TIME え h 5 Fr Q

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Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. 5"0-9-h-dwe 10MP4- C-0-05 DWIPH - 0- 0.5-1 BMPH - B- 0-08 0M74-D-0-0,5 WOMPY-A-6-6,5 WMP4-C-0.5-2 CNMP - A-0; 5-1 1-5-0-5-1 NWV Phone\_ DMP-3-0-0,5 City, State, ZIP. Address Report To Sec. Company\_Cloyd Snider Sample ID 8 Email لك Relinguished by: **Relinquished** by Received by: Received by: " 8 40 30 R 4 3 3 <u>0</u> ŝ 29 0112.67 Lab ID SIGNATURE B 11/13/20 Sampled Date N 240 1236 5121 1236 1961 1231 1236 비덕し 1145 OPPEI Time . Sampled SAMPLE CHAIN OF CUSTODY MC Project specific RLs? - Yes / No SAMPLERS (signature) REMARKS PROJECT NAME CANTERA-TOX Sample Type 81 ぐ WEN YAR PRINT NAME # of Jars . ah gra-NWTPH-Dx The area (a1850) NWTPH-Gx BTEX EPA 8021 CANTERA-TOC NWTPH-HCID INVOICE TO VOCs EPA 8260 ₽O# 11-13-20 PAHs EPA 8270 No. COMPANY PCBs EPA 8082 REQUESTED  $\times$ **1** Arsenic X Samples refered at [5 ~  $\checkmark$ TBT I Standard turnaround tratistic sulv A day Rush charges authorized by: SAMPLE DISPOSAL X Archive samples Default: Dispose after 30 days O Other ~ TURNABOUND TIME Page #  $\succ$ ×  $\times$ X Archive × ×  $\leq$ 11/3/20 11/13/20 DATE £ Notes Ś fp. 1-1-1-1-TIME 118 b Q

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Ph. (206) 285-8282 Secute, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. (pMP- 5-0.5-1 UMP5-D-0-45 COMP5-B-0,5-1 WMP-5-0-0.5 COMUS - D-0:5-1 COMP5-A-0-0,5 (0MP5-B-0-0.5 (DMP-4-0.5-1 "City; State; ZIP ...... Phone MMP5 - C - 0 - 0 . S Address Company\_ MPG- C-0.5-1 Report To\_ Sample ID pholy N. C Shider Email Received by: Relinquished by: Relinquished by. Received by:" ŝ in the second se み 5 F £ ES B 5 5 Lab ID 49111C ž SIGNATURE 11/13/2N Sampled Date 1316 12 1320 1321 1315 1310 Time Sampled SAMPLE CHAIN OF CUSTODY ME 13060 13.65 300 1241 Project specific RLs? - Yes / No PROJECT NAME SAMPLERS (signature) REMARKS CAN TOPA - TOC Sample Type 30  $\langle \rangle$ CMUN MULE Part 1 mon PRINT NAME #of NWTPH-Dx 191880 NWTPH-Gx CINIER TOU BTEX EPA 8021 NWTPH-HCID INVOICE TO VOCs EPA 8260 PO# YSES REQUESTED PAHs EPA 8270 02-51-11  $\langle \rangle$ F PCBs EPA 8082 Samples received at 3 COMPANY × Aranic × Z TBT WArchive samples I Other\_\_\_\_\_\_ Default: Dispose after 30 days D Standard turnaround WRUSH As the Add Rush charges authorized by SAMPLE DISPOSAL TURNAROUND TIME Page # ×  $\times$ Archive × \* ×  $\sim$ ×  $\times$  $\succ$ 00/01/11 DATE 80 KII  $\mathbb{S}^{n}$ Notes 2 কঁ 2 石 TIME P.19

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#### 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

March 16, 2021

Lynn Grochala, Project Manager Floyd-Snider Two Union Square, Suite 600 601 Union St Seattle, WA 98101

Dear Ms Grochala:

Included are the additional results from the testing of material submitted on November 13, 2020 from the Cantera - TOC, F&BI 011267 project. There are 7 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Cale

Michael Erdahl Project Manager

Enclosures c: Kristin Anderson FDS0316R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on November 13, 2020 by Friedman & Bruya, Inc. from the Floyd-Snider Cantera - TOC, F&BI 011267 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd-Snider</u>
011267 -01	Comp1-A-0-0.5
011267 -02	Comp1-A-0.5-1
011267 -03	Comp1-B-0-0.5
011267 -04	Comp1-B-0.5-1
011267 -05	Comp1-D-0-0.5
011267 -06	Comp1-D-0.5-1
011267 -07	Comp1-C-0-0.5
011267 -08	Comp1-C-0.5-1
011267 -09	Comp-1-0-0.5
011267 -10	Comp-1-0.5-1
011267 -11	Comp2-A-0-0.5
011267 -12	Comp2-A-0.5-1
011267 -13	Comp2-B-0-0.5
011267 -14	Comp2-B-0.5-1
011267 -15	Comp2-C-0-0.5
011267 -16	Comp2-C-0.5-1
011267 -17	Comp2-D-0-0.5
011267 -18	Comp2-D-0.5-1
011267 -19	Comp-2-0-0.5
011267 -20	Comp-2-0.5-1
011267 -21	Comp3-A-0-0.5
011267 -22	Comp3-A-0.5-1
011267 -23	Comp3-B-0-0.5
011267 -24	Comp3-B-0.5-1
011267 -25	Comp3-C-0-0.5
011267 -26	Comp3-C-0.5-1
011267 -27	Comp3-D-0-0.5
011267 -28	Comp3-D-0.5-1
011267 -29	Comp-3-0-0.5
011267 -30	Comp-3-0.5-1
011267 -31	Comp4-A-0-0.5
011267 -32	Comp4-A-0.5-1
011267 -33	Comp4-B-0-0.4
011267 -34	Comp4-C-0-0.5
011267 - 35	Comp4-C-0.5-1

### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE (Continued)

Laboratory ID	Floyd-Snider
011267 -36	$\overline{\text{Comp4-D-0-0.5}}$
011267 -37	Comp4-D-0.5-1
011267 -38	Comp-4-0-0.5
011267 -39	Comp-4-0.5-1
011267 -40	Comp5-A-0-0.5
011267 -41	Comp5-B-0-0.5
011267 -42	Comp5-B-0.5-1
011267 -43	Comp5-C-0-0.5
011267 -44	Comp5-C-0.5-1
011267 -45	Comp5-D-0-0.5
011267 -46	Comp5-D-0.5-1
011267 -47	Comp-5-0-0.5
011267 -48	Comp-5-0.5-1
011267 -49	Comp6-A-0-0.5
011267 -50	Comp6-A-0.5-1
011267 -51	Comp6-B-0-0.5
011267 -52	Comp6-B-0.5-1
011267 -53	Comp6-C-0-0.5
011267 -54	Comp6-C-0.5-1
011267 -55	Comp6-C-0.5-1-D
011267 -56	Comp6-D-0-0.4
011267 -57	Comp6-D-0-0.4-D
011267 -58	Comp-6-0-0.5
011267 -59	Comp-6-0.5-1
011267 -60	Comp-6-0.5-1-D
011267 -61	$\operatorname{Comp7-A-0-0.5}$
011267 -62	Comp7-A-0.5-1
011267 -63	Comp7-B-0-0.5
011267 -64	Comp7-B-0.5-1
011267 -65	$\operatorname{Comp7-C-0-0.5}$
011267 -66	Comp7-C-0.5-1
011267 -67	Comp7-D-0-0.4
011267 -68	Comp-7-0-0.5
011267 -69	Comp-7-0.5-1
011267 -70	SW1-0.25-0.75

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>Floyd-Snider</u>
011267 -71	SW2-0.25-0.75
011267 -72	SW3-0.25-0.75
011267 -73	SW4-0.25-0.75
011267 -74	SW5-0.25-0.75
011267 -75	SW6-0.25-0.75
011267 -76	SW7-0.25-0.75
011267 -77	SW8-0.25-0.75
011267 -78	SW9-0.25-0.75
011267 -79	SW10-0.25-0.75
011267 -80	B1-1.0-1.25
011267 -81	B1-2.0-2.25
011267 -82	B2-1.0-1.25
011267 -83	B2-2.0-2.25
011267 -84	B3-1.0-1.25
011267 -85	B3-2.0-2.25
011267 -86	B3-2.0-2.25-D
011267 -87	B4-1.0-1.25
011267 -88	B4-2.0-2.25

All quality control requirements were acceptable.

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	Comp6-A-0-0.5	Client:	Floyd-Snider
Date Received:	11/13/20	Project:	Cantera - TOC, F&BI 011267
Date Extracted:	03/12/21	Lab ID:	011267-49
Date Analyzed:	03/12/21	Data File:	011267-49.058
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	5.77		

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Floyd-Snider
Date Received:	Not Applicable	Project:	Cantera - TOC, F&BI 011267
Date Extracted:	03/12/21	Lab ID:	I1-162 mb
Date Analyzed:	03/12/21	Data File:	I1-162 mb.035
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		
#### ENVIRONMENTAL CHEMISTS

Date of Report: 03/16/21 Date Received: 11/13/20 Project: Cantera - TOC, F&BI 011267

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 103188-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	$\operatorname{RPD}$
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	7.49	116 b	127 b	75 - 125	9 b

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	96	80-120

#### 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.

 $\operatorname{ca}$  - 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.

 ${\rm J}$  - 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.

Ph. (206) 285-8282	Seattle, WA 98119-2029	e rusu hust or pruya, inc.	Driver & Denne K.	(0) 0.5 -	COMP3 - C - 0-0.	(SMP1 - D - 0.5 -	00MP2 - 0:0-0.	BETTPI - Cias	0-0-5- COWOS	(2MP1 - 8-0.5-	COMP1-R-0-0,	COM03 - A-0.5-	COMPJ-A-6-6.	Sample ID	Lybone 200-292-201	City, State, ZIP Vat	Address Level 12min	Company/Poyal Sin	Report
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#### 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

March 1, 2021

Lynn Grochala, Project Manager Floyd-Snider Two Union Square, Suite 600 601 Union St Seattle, WA 98101

Dear Ms Grochala:

Included are the results from the testing of material submitted on February 22, 2021 from the Cantera-TOC, F&BI 102333 project. There are 24 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.

al Nelf

Michael Erdahl Project Manager

Enclosures FDS0301R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on February 22, 2020 by Friedman & Bruya, Inc. from the Floyd-Snider Cantera-TOC, F&BI 102333 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd-Snider</u>
102333 -01	CAA7-S22-0-0.5
102333 -02	CAA7-S12-0-0.5
102333 -03	CAA7-S12-0.5-1
102333 -04	CAA7-S13-0-0.5
102333 -05	CAA7-S13-0.5-1
102333 -06	CAA7-S14-0-0.5
102333 -07	CAA7-S14-0.5-1
102333 -08	CAA7-S15-1-1.5
102333 -09	CAA7-S16-1-1.5
102333 -10	CAA7-S17-1-1.5
102333 -11	CAA7-S18-0-0.5
102333 -12	CAA7-S19-0-0.5
102333 -13	CAA7-S20-0-0.5
102333 -14	CAA7-S21-0-0.5
102333 -15	CAA7-B5-1-1.5
102333 -16	CAA7-B6-1-1.5
102333 -17	CAA7-B7-1-1.5
102333 -18	CAA7-B8-1-1.5
102333 -19	CAA7-S11-0-0.5
102333 -20	CAA7-S11-0.5-1

All quality control requirements were acceptable.

#### ENVIRONMENTAL CHEMISTS

## Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-S22-0-0.5	Client:	Floyd-Snider
Date Received:	02/22/21	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-01
Date Analyzed:	02/25/21	Data File:	102333-01.172
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	36.5		

#### ENVIRONMENTAL CHEMISTS

## Analysis For Total Metals By EPA Method 6020B

Client ID: Date Received:	CAA7-S12-0-0.5 02/22/21	Client: Project:	Floyd-Snider Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-02
Date Analyzed:	02/25/21	Data File:	102333 - 02.175
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	3.99		

#### ENVIRONMENTAL CHEMISTS

## Analysis For Total Metals By EPA Method 6020B

Client ID: Date Received:	CAA7-S12-0.5-1 02/22/21	Client: Project:	Floyd-Snider Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-03
Date Analyzed:	02/25/21	Data File:	102333-03.176
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	4.01		

#### ENVIRONMENTAL CHEMISTS

## Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-S13-0-0.5	Client:	Floyd-Snider
Date Received:	02/22/21	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-04
Date Analyzed:	02/25/21	Data File:	102333-04.187
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	2.24		

#### ENVIRONMENTAL CHEMISTS

## Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-S13-0.5-1	Client:	Floyd-Snider
Date Received:	02/22/21	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-05
Date Analyzed:	02/25/21	Data File:	102333-05.188
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	2.04		

#### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-S14-0-0.5	Client:	Floyd-Snider
Date Received:	02/22/21	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-06
Date Analyzed:	02/25/21	Data File:	102333-06.198
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	28.0		

#### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-S14-0.5-1	Client:	Floyd-Snider
Date Received:	02/22/21	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-07
Date Analyzed:	02/25/21	Data File:	102333-07.199
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	6.02		

#### ENVIRONMENTAL CHEMISTS

## Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-S15-1-1.5	Client:	Floyd-Snider
Date Received:	02/22/21	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-08
Date Analyzed:	02/25/21	Data File:	102333-08.200
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	7.82		

#### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-S16-1-1.5	Client:	Floyd-Snider
Date Received:	02/22/21	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-09
Date Analyzed:	02/25/21	Data File:	102333-09.201
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	30.2		

#### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	CAA7-S17-1-1.5 02/22/21 02/23/21 02/25/21 Soil	Client: Project: Lab ID: Data File: Instrument:	Floyd-Snider Cantera-TOC, F&BI 102333 102333-10 102333-10.210 ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	18.4		

#### ENVIRONMENTAL CHEMISTS

## Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-S18-0-0.5	Client:	Floyd-Snider
Date Received:	02/22/21	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-11
Date Analyzed:	02/25/21	Data File:	102333-11.211
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	5.40		

#### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-S19-0-0.5	Client:	Floyd-Snider
Date Received:	02/22/21	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-12
Date Analyzed:	02/25/21	Data File:	102333-12.212
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	18.6		

#### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	CAA7-S20-0-0.5 02/22/21 02/23/21 02/25/21 Soil	Client: Project: Lab ID: Data File:	Floyd-Snider Cantera-TOC, F&BI 102333 102333-13 102333-13.213 ICPMS2
Matrix.		Instrument.	ICFM52
Units:	mg/kg (ppm) Dry Weight Concentration	Operator:	SP
Analyte:	mg/kg (ppm)		
Arsenic	5.01		

#### ENVIRONMENTAL CHEMISTS

## Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-S21-0-0.5	Client:	Floyd-Snider
Date Received:	02/22/21	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-14
Date Analyzed:	02/25/21	Data File:	102333-14.214
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	4.42		

#### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-B5-1-1.5	Client:	Floyd-Snider
Date Received:	02/22/21	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-15
Date Analyzed:	02/26/21	Data File:	102333-15.221
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	9.24		

#### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-B6-1-1.5	Client:	Floyd-Snider
Date Received:	02/22/21	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-16
Date Analyzed:	02/26/21	Data File:	102333-16.222
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	7.90		

#### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID: Date Received:	CAA7-B7-1-1.5 02/22/21	Client: Project:	Floyd-Snider Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-17
Date Analyzed:	02/26/21	Data File:	$102333  ext{-} 17.223$
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	5.83		

#### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-B8-1-1.5	Client:	Floyd-Snider
Date Received:	02/22/21	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-18
Date Analyzed:	02/26/21	Data File:	102333-18.224
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
111111 001			
Arsenic	4.85		

#### ENVIRONMENTAL CHEMISTS

## Analysis For Total Metals By EPA Method 6020B

Client ID: Date Received: Date Extracted: Date Analyzed:	CAA7-S11-0-0.5 02/22/21 02/23/21 02/26/21	Client: Project: Lab ID: Data File:	Floyd-Snider Cantera-TOC, F&BI 102333 102333-19 102333-19.225
Matrix:	S011	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight Concentration	Operator:	SP
Analyte:	mg/kg (ppm)		
Arsenic	3.63		

#### ENVIRONMENTAL CHEMISTS

## Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-S11-0.5-1	Client:	Floyd-Snider
Date Received:	02/22/21	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	102333-20
Date Analyzed:	02/26/21	Data File:	102333-20.226
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	4.93		

#### ENVIRONMENTAL CHEMISTS

## Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Floyd-Snider
Date Received:	Not Applicable	Project:	Cantera-TOC, F&BI 102333
Date Extracted:	02/23/21	Lab ID:	I1-133 mb
Date Analyzed:	02/23/21	Data File:	I1-133 mb.077
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 03/01/21 Date Received: 02/22/21 Project: Cantera-TOC, F&BI 102333

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102333-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	$\operatorname{RPD}$
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	32.1	0 b	112 b	75 - 125	200 b

Laboratory Code: Laboratory Control Sample

·	·	-	Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	107	80-120

#### 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.

 ${\rm J}$  - 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.
Ph. (206) 285-8282	Seattle, WA 98119-2029	3012 16th Avenue West	Friedman & Bruya, Inc.		WAA7-515-1-1.	CRA7 -SI4-0.5-	CAA7-Sju-o-D.	CANS-SIM O.O.	CAA7-513-0.5-1	CA7-513-0-0.5	CART-SI2-05-1	CAR7-512-0-0.	CART-SIL OS-	CAAT -ST2- 0-0.5	Sample ID	in the second	Phone 253 - 207 - 7.7 4	City, State, ZIP Edmond	Address 60) S UNIC	Report To Lynn (
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#### 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

March 26, 2021

Lynn Grochala, Project Manager Floyd-Snider Two Union Square, Suite 600 601 Union St Seattle, WA 98101

Dear Ms Grochala:

Included are the results from the testing of material submitted on March 22, 2021 from the Cantera-TOC, F&BI 103414 project. There are 10 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.

ale Nelf

Michael Erdahl Project Manager

Enclosures FDS0326R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on March 22, 2021 by Friedman & Bruya, Inc. from the Floyd-Snider Cantera-TOC, F&BI 103414 project. Samples were logged in under the laboratory ID's listed below.

<u>Floyd-Snider</u>
CAA7-B12-2.0-2.25
CAA7-B11-2.0-2.25
CAA7-SW23-0.0-0.5
CAA7-SW24-0.0-0.5
CAA7-SW25-0.0-0.5
CAA7-SW26-0.0-0.5

All quality control requirements were acceptable.

### ENVIRONMENTAL CHEMISTS

## Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-B12-2.0-2.25	Client:	Floyd-Snider
Date Received:	03/22/21	Project:	Cantera-TOC, F&BI 103414
Date Extracted:	03/23/21	Lab ID:	103414-01
Date Analyzed:	03/24/21	Data File:	103414-01.059
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	5.80		

### ENVIRONMENTAL CHEMISTS

## Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-B11-2.0-2.25	Client:	Floyd-Snider
Date Received:	03/22/21	Project:	Cantera-TOC, F&BI 103414
Date Extracted:	03/23/21	Lab ID:	103414-02
Date Analyzed:	03/24/21	Data File:	103414-02.060
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	6.54		

### ENVIRONMENTAL CHEMISTS

## Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-SW23-0.0-0.5	Client:	Floyd-Snider
Date Received:	03/22/21	Project:	Cantera-TOC, F&BI 103414
Date Extracted:	03/23/21	Lab ID:	103414-03
Date Analyzed:	03/24/21	Data File:	103414-03.061
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	10.8		

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-SW24-0.0-0.5	Client:	Floyd-Snider
Date Received:	03/22/21	Project:	Cantera-TOC, F&BI 103414
Date Extracted:	03/23/21	Lab ID:	103414-04
Date Analyzed:	03/24/21	Data File:	103414-04.093
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	13.3		

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-SW25-0.0-0.5	Client:	Floyd-Snider
Date Received:	03/22/21	Project:	Cantera-TOC, F&BI 103414
Date Extracted:	03/23/21	Lab ID:	103414-05
Date Analyzed:	03/24/21	Data File:	103414-05.094
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	6.39		

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	CAA7-SW26-0.0-0.5	Client:	Floyd-Snider
Date Received:	03/22/21	Project:	Cantera-TOC, F&BI 103414
Date Extracted:	03/23/21	Lab ID:	103414-06
Date Analyzed:	03/24/21	Data File:	103414-06.095
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	13.6		

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Floyd-Snider
Date Received:	Not Applicable	Project:	Cantera-TOC, F&BI 103414
Date Extracted:	03/23/21	Lab ID:	I1-182 mb2
Date Analyzed:	03/23/21	Data File:	I1-182 mb2.107
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 03/26/21 Date Received: 03/22/21 Project: Cantera-TOC, F&BI 103414

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 103386-01 x5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	$\operatorname{RPD}$
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	11.3	111	116	75 - 125	4

Laboratory Code: Laboratory Control Sample

Laboratory C	out. Eastratory com	cioi sumpio	Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	109	80-120

#### 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.

 ${\rm J}$  - 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.

	Ph. (206) 285-8282	Seattle, WA 98119-2029	3012 16th Avenue West	Friedman & Bruya, Inc.					CAA7-SW26-0-0-0.5	CAN 7- SW25-0.0-0.5	UAA 7- SW 24-0.0-05	CAAT- SW23-010-05	CAA7-511-20-2.25	CAA7 - B12-20-225	Sample ID		Phone 206 - 292 - 278	City, State, ZIP	Address ' 601	Company Flork	Report To Yhn	103414
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