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Transmitted via Electronic Mail

October 15, 2024

Ms. Tena Seeds Washington State Department of Ecology Toxics Cleanup Program 15700 Dayton Ave N., Shoreline, WA 98133

RE: Quarterly Progress Report: July 1 through September 30, 2024

Time Oil Bulk Terminal Site, Cleanup Site ID #14604

Prospective Purchaser Consent Decree No. 20-2-15215-3 SEA

Dear Ms. Seeds:

Pioneer Engineering & Environmental Services, LLC on behalf of TOC Seattle Terminal 1, LLC submits the attached Quarterly Progress Report for the Time Oil Bulk Terminal Site per Section XII of the Prospective Purchaser Consent Decree between the Washington State Department of Ecology and TOC Seattle Terminal 1, LLC. The quarterly progress report consists of a brief narrative summary of notable activities that occurred during the reporting period and that are anticipated for the upcoming reporting period.

If you have any questions about this report, please contact me at 773-435-3725.

Sincerely,

Kim Hempel

Project Coordinator

Pioneer Engineering & Environmental Services, LLC

Distribution List:

Doug Ciserella and Mike Ciserella, TOC Seattle Terminal 1, LLC Bill Joyce, Hillis Clark Martin & Peterson P.S. Jamie Stevens, CRETE Consulting Kristin Anderson, Floyd|Snider

TIME OIL BULK TERMINAL SITE PROSPECTIVE PURCHASER CONSENT DECREE NO. 20-2-15215-3 SEA QUARTERLY PROGRESS REPORT: JULY 1 THROUGH SEPTEMBER 30, 2024

This report has been prepared in accordance with the requirements of the Time Oil Bulk Terminal Site Prospective Purchaser Consent Decree (PPCD) between the Washington State Department of Ecology (Ecology) and TOC Seattle Terminal 1, LLC. This progress report provides details on the following: 1) all on site activities; 2) any deviations from required tasks; 3) anticipated problems in meeting schedule or objectives and associated solutions 4) sampling, testing, or other data received; 5) work planned for the upcoming 3-month period; and, 6) deliverables planned for the upcoming 3-month period.

Summary of On-Site Activities Performed During the Reporting Period (PPCD Section XII.A)

- A visual check of the site was conducted on August 7, 2024. Construction associated with redevelopment continues on Parcel F, and all interim surfaces on remaining portions of the Site remain in good condition and no other concerns were noted during the site visits.
- Floyd|Snider (F|S) personnel collected the seventh round of post-remediation groundwater samples on August 7 and 8, 2024 (Q3 2024) per the approved Groundwater Monitoring Plan (GMP) and additional Ecology email concurrence dated July 30, 2024. Monitoring included continued groundwater collection at contingency well 01MW107 and additional sampling at 01MW15 and 01MW58R based on elevated trichloroethene (TCE) in upgradient portions of the ASKO property and on the BNSF Property.
- Water samples were collected from the ASKO Property permeable reactive barrier vault and gravity well on August 7, 2024 for operation and maintenance (O&M) assessment purposes. O&M assessment will continue in Q4 2024 per Ecology's request.

Deliverables

Deliverables during this reporting period included the following:

- The Quarterly Progress Report for the second quarter of 2024 was submitted to Ecology on July 15, 2024.
- Groundwater sampling results for the third quarter of 2024 and associated contour maps were submitted to Ecology via email on September 23, 2024.

Deviations from Required Tasks (PPCD Section XII.B)

None.

Anticipated Problems in Meeting Schedule or Objectives and Associated Solutions (PPCD Section XII.C and XII.D)

- Based on groundwater samples collected by BNSF in November 2023, TCE and associated cVOC as well as TPH contaminant concentrations originating from the upgradient BNSF property were identified in upgradient groundwater as part of the BNSF remedial investigation at levels considerably higher than those observed in the 2019 remedial investigation for the Time Oil Bulk Terminal Site. The elevated TCE and cVOC concentrations in groundwater on BNSF are impacting the shallow water bearing zone (WBZ) in groundwater wells on the downgradient ASKO parcel owned by TOC Seattle Terminal 1, LLC. These impacts, if they continue, represent an on-going source to groundwater and may affect achievement of the cleanup levels (CULs) at the conditional point of compliance (CPOC) within the predicted 15-year restoration timeframe.
- Aside from the item above, there are no other anticipated problems in meeting the schedule of deliverables specified in Exhibit D of the PPCD. The schedule of deliverables and activities specified in Table 8.1 of the Cleanup Action Plan (Exhibit C of the PPCD) are currently on track or ahead of schedule.

Raw Data Received (PPCD Section XII.E)

- Groundwater sampling results for the 3rd Quarter 2024 were received from Friedman & Bruya, Inc. on August 20, 2024. Results were received in one sample delivery group (F&BI 408160);
- Samples collected for O&M purposes from the ASKO property permeable reactive barrier vault and gravity well were received on August 16, 2024. Results were received in one sample delivery group (F&BI 408159);
- Copies of the laboratory reports discussed herein are provided as an attachment to this Progress Report.

Work Planned During the Upcoming Reporting Period (PPCD Section XII.F)

The following work is planned for the 4th Quarter 2024:

- Eighth round of groundwater sampling and site-wide synoptic gauging is scheduled for early to mid-November 2024;
- Review of BNSF 3rd Quarter 2024 water levels and groundwater results;
- Construction on Lot F continues; and
- Site checks will be conducted periodically on all interim surfaces outside of Lot F to ensure that conditions remain stable during the interim period prior to site development.

Deliverables Planned During the Upcoming Reporting Period (PPCD Section XII.G)

The following deliverables are anticipated to be completed during the next quarterly reporting period of October through December 2024:

- Submittal of the Quarterly Progress Report for the 3rd Quarter 2024; and
- Transmittal of a summary of 4th Quarter 2024 groundwater sampling results and associated groundwater contour maps to Ecology via email.

Other Pertinent Information, Including Changes in Key Personnel

None.

Attachments

Attachment 1 – Laboratory Analytical Reports

END QUARTERLY PROGRESS REPORT

ATTACHMENT 1

Laboratory Analytical Reports

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. August 16, 2024

5500 4th Ave South Seattle, WA 98108-2419 (206) 285-8282 office@friedmanandbruya.com www.friedmanandbruya.com

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

Dear Ms Anderson:

Included are the results from the testing of material submitted on August 8, 2024 from the Cantera/Time Oil, F&BI 408159 project. There are 9 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: Floyd Snider Lab Data, Pamela Osterhout

FDS0816R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 8, 2024 by Friedman & Bruya, Inc. from the Floyd-Snider Cantera/Time Oil, F&BI 408159 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd-Snider</u>
408159 -01	Gravity-080724
408159 -02	Clear-080724
408159 -03	INF-Vault-080724

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/24 Date Received: 08/08/24

Project: Cantera/Time Oil, F&BI 408159

Date Extracted: 08/11/24 Date Analyzed: 08/11/24

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

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	$\frac{\text{Diesel Range}}{(\text{C}_{10}\text{-}\text{C}_{25})}$	$\frac{\text{Motor Oil Range}}{(C_{25}\text{-}C_{36})}$	Surrogate (% Recovery) (Limit 50-150)
Gravity-080724 408159-01	380 x	<250	97
Method Blank 04-1900 MB	<50	<250	88

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Clie	nt Sample ID:	Gravity-080724	Client:	Floyd-Snider
_			_	

Date Received: 08/08/24 Project: Cantera/Time Oil, F&BI 408159 Lab ID: Date Extracted: 08/14/24 408159-01 1/10 Date Analyzed: 08/14/24 Data File: 081417.DMatrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: MD

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	105	78	126
Toluene-d8	94	84	115
4-Bromofluorobenzene	98	72	130

Concentration

Compounds: ug/L (ppb)

Vinyl chloride 6.3 cis-1,2-Dichloroethene 540 Trichloroethene 840

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Clear-080724	Client:	Floyd-Snider
Date Received:	08/08/24	Project:	Cantera/Time Oil, F&BI 408159

Lab ID: Date Extracted: 08/14/24 408159-02 Date Analyzed: 08/14/24 Data File: 081415.DMatrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: MD

		Lower	$\cup \mathrm{pper}$
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	103	72	130

Concentration

Compounds: ug/L (ppb)

Vinyl chloride <0.02 cis-1,2-Dichloroethene <1 Trichloroethene 9.2

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: INF-Vault-080724	Client:	Floyd-Snider
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Cantera/Time Oil, F&BI 408159 Date Received: 08/08/24 Project: Lab ID: Date Extracted: 408159-03 08/14/24 Date Analyzed: 08/14/24 Data File: 081416.DMatrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: MD

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	105	78	126
Toluene-d8	96	84	115
4-Bromofluorobenzene	99	72	130

Concentration

Compounds: ug/L (ppb)
Vinyl chloride 0.18

cis-1,2-Dichloroethene 4.6 Trichloroethene 26

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: Method Blank Client: Floyd-Snider

Date Received: Not Applicable Project: Cantera/Time Oil, F&BI 408159

Lab ID: Date Extracted: 08/14/24 04-1838 mb Date Analyzed: 08/14/24 Data File: 081409.DMatrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: MD

Upper Lower Surrogates: % Recovery: Limit: Limit: 1,2-Dichloroethane-d4 99 78 126 Toluene-d8 97 84 115 4-Bromofluorobenzene 96 72 130

Concentration

Compounds: ug/L (ppb)

Vinyl chloride <0.02 cis-1,2-Dichloroethene <1 Trichloroethene <0.5

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/24 Date Received: 08/08/24

Project: Cantera/Time Oil, F&BI 408159

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

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	76	80	65-151	5

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/24 Date Received: 08/08/24

Project: Cantera/Time Oil, F&BI 408159

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 408159-02 (Matrix Spike)

				Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	ug/L (ppb)	10	< 0.02	106	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	100	10-211
Trichloroethene	ug/L (ppb)	10	9.2	89 b	35 - 149

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	10	112	105	64-142	6
cis-1,2-Dichloroethene	ug/L (ppb)	10	102	100	70-130	2
Trichloroethene	ug/L (ppb)	10	92	89	70-130	3

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, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. 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 standard reporting limit. 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.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- 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.

Seattle WA 98108 5500 4th Ave S. office@friedmanandbruya.com (206) 285-8282 Friedman & Bruya, Inc. Address (10) Whin St, State 600 Phone 242 - 2078 City, State, ZIP South, WA 1810) CLERK-08072 Report To Krishn Anderson + Pawels Osterbut NF-VANLT-080724 GRAVITY-080724 408159 Sample ID Email Lab Detac Reyd Sudar-con Project specific RLs? - Yes Received by: Relinquished by Relinquished by: Received by: Ç OLA-C 01 A-0 18/7/24 Lab ID)and Sampled 1235 05:11 12.15 SAMPLE CHAIN OF CUSTODY Sampled * CNOG include TCE, chloride Pioneer SAMPLERS (signature) Time PROJECT NAME Cantara / Time al Ukin than Sample Panela Osterbout 3 Jars PRINT NAME S samples received at BTEX EPA 8021 INVOICE TO. ANALYSES REQUESTED VOCs EPA PAHs EPA 8270 Floyd Inider FEBI PCBs EPA 8082 08/08/24 F2/VW2 COMPANY Standard turnaround ☐ Archive samples Rush charges authorized by: ဂိ TURNAROUND TIME SAMPLE DISPOSAL Dispose after 30 days 6/8/24 DATE Notes TIME

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 408159	CLIENT_	Floyd	Sinder		INITI	ALS/	P) 08	108/24
If custody seals are				?	Þ NÆ	A 0 '	YES	□ NO
Cooler/Sample temp	erature	£	*	ž.	ı	hermomete	er ID: Flul	°C ke 96312917
Were samples receiv	red on ice/cold	packs?				¥.	YES	□ NO
How did samples are Over the		□ Picked	up by F&B	I	□ Fed	lEx/UPS	s/GSO	
Is there a Chain-of-C	Custody* (COC)	? d/or shippi̯ı	YES ng memos	□ NO	I	nitials/ Date:(AP 08 08	124
Number of days sam	ples have been	sitting]	prior to re	ceipt at	labor	atory		_ days
Are the samples clea	arly identified?	(explain "n	o" answer bel	low)		Ø	YES	□ NO
Were all sample con leaking etc.)? (explain		d intact	(i.e. not b	roken,		Ø	YES	□ NO
Were appropriate sa	ample containe	rs used?	¥	Ø YES	S 🗆	NO	o U	nknown
If custody seals are	present on san	ples, are	they inta	ct?	Ø N.	A 🗆	YES	□ NO
Are samples requiri	ng no headspa	e, heads	space free	?	□ N.	A Ø	YES	□ NO
Is the following info	r)		2 1 9		725			
Sample ID's	Yes No _					No	t on CC	C/label
Date Sampled	Yes No _					No	t on CC	C/label
Time Sampled	✓ Yes □ No _	147				🗆 No	t on CC	C/label
# of Containers	Yes No _							
Relinquished	✓ Yes □ No _							
Requested analysis	Yes 🗆 On H							
Other comments (us	se a separate pag	e if neede	ed)					
				1981				
Air Samples: Were a	any additional TO15 canisters	canisters	s/tubes rec	eived?	Ø N	A 🗆		□ NO

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. August 20, 2024

5500 4th Ave South Seattle, WA 98108-2419 (206) 285-8282 office@friedmanandbruya.com www.friedmanandbruya.com

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

Dear Ms Anderson:

Included are the results from the testing of material submitted on August 8, 2024 from the Cantera/Time Oil, F&BI 408160 project. There are 36 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: Floyd Snider Lab Data, Pamela Osterhout

FDS0820R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 8, 2024 by Friedman & Bruya, Inc. from the Floyd-Snider Cantera/Time Oil, F&BI 408160 project. Samples were logged in under the laboratory ID's listed below.

Floyd-Snider
01MW12-080724
01MW19R-080724
01MW40-080724
01MW49R-080724
01MW84-080724
01MW46-080724
01MW58R-080724
01MW108-080724
01MW56-080724
02MW04R-080724
01MW15-080724
01MW80-080824
01MW85-080824
01MW53R-080824
01MW107-080824
MW05-080824
MW06-080824
MW06-080824-D

Samples 01MW85-080824, MW05-080824, and MW06-080824 were sent to Alliance Technical Group for total organic carbon and to Onsite Environmental for dissolved gases testing. The reports are enclosed.

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/20/24 Date Received: 08/08/24

Project: Cantera/Time Oil, F&BI 408160

Date Extracted: 08/15/24 Date Analyzed: 08/15/24

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
01MW12-080724 408160-01	<100	103
01MW19R-080724 408160-02	500	104
01MW40-080724 408160-03	<100	100
01MW49R-080724 408160-04	<100	102
01MW84-080724 408160-05 1/10	2,500	103
02MW04R-080724 408160-10	<100	94
Method Blank	<100	93
04-1757 MB	100	23

ENVIRONMENTAL CHEMISTS

Date of Report: 08/20/24 Date Received: 08/08/24

Project: Cantera/Time Oil, F&BI 408160

Date Extracted: 08/13/24 Date Analyzed: 08/13/24

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

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	$rac{ ext{Diesel Range}}{ ext{(C}_{10} ext{-C}_{25} ext{)}}$	$rac{ ext{Motor Oil Range}}{ ext{(C}_{25} ext{-C}_{36})}$	Surrogate (% Recovery) (Limit 50-150)
01MW12-080724 408160-01	940 x	310 x	90
01MW19R-080724 408160-02	580 x	<250	102
01MW40-080724 408160-03	980 x	<250	98
01MW49R-080724 408160-04	240 x	<250	105
01MW84-080724 408160-05	970 x	<250	99
01MW58R-080724 408160-07	880 x	370 x	148
02MW04R-080724 408160-10	96 x	<250	96
Method Blank 04-1910 MB	<50	<250	85

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: 01MW12-080724 Client: Floyd-Snider

Date Received: 08/08/24 Project: Cantera/Time Oil, F&BI 408160
Date Extracted: 08/12/24 Lab ID: 408160-01

Date Extracted. 08/12/24 Lab ID. 408160-01
Date Analyzed: 08/12/24 Data File: 081237.D
Matrix: Water Instrument: GCMS11
Units: ug/L (ppb) Operator: IJL

Upper Lower Surrogates: % Recovery: Limit: Limit: 1,2-Dichloroethane-d4 98 78 126 Toluene-d8 97 84 115 4-Bromofluorobenzene 101 72 130

Concentration

Compounds: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: 01MW19R-080724 Client: Floyd-Snider

 Date Received:
 08/08/24
 Project:
 Cantera/Time Oil, F&BI 408160

 Date Extracted:
 08/12/24
 Lab ID:
 408160-02

Date Extracted. 08/12/24 Lab ID. 408160-02
Date Analyzed: 08/12/24 Data File: 081238.D
Matrix: Water Instrument: GCMS11
Units: ug/L (ppb) Operator: IJL

Upper Lower Surrogates: % Recovery: Limit: Limit: 1,2-Dichloroethane-d4 99 78 126 Toluene-d8 102 84 115 4-Bromofluorobenzene 104 72 130

Concentration

Compounds: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: 01MW40-080724 Client: Floyd-Snider

Date Received: 08/08/24 Project: Cantera/Time Oil, F&BI 408160

Lab ID: Date Extracted: 08/12/24 408160-03 Date Analyzed: 08/12/24 Data File: 081239.DMatrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: IJL

Upper Lower Surrogates: % Recovery: Limit: Limit: 1,2-Dichloroethane-d4 98 78 126 Toluene-d8 97 84 115 4-Bromofluorobenzene 103 72 130

Concentration

Compounds: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW49R-080724	Client:	Floyd-Snider
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 Date Received:
 08/08/24
 Project:
 Cantera/Time Oil, F&BI 408160

 Date Extracted:
 08/12/24
 Lab ID:
 408160-04

 Date Analyzed:
 08/12/24
 Data File:
 081240.D

Matrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: IJL

Lower Upper Surrogates: % Recovery: Limit: Limit: 1,2-Dichloroethane-d4 100 78 126 Toluene-d8 95 84 115 4-Bromofluorobenzene 102 72 130

Concentration

Compounds: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: 01MW84-080724 Client: Floyd-Snider

 Date Received:
 08/08/24
 Project:
 Cantera/Time Oil, F&BI 408160

 Date Extracted:
 08/12/24
 Lab ID:
 408160-05

Upper Lower Surrogates: % Recovery: Limit: Limit: 1,2-Dichloroethane-d4 103 78 126 Toluene-d8 96 84 115 4-Bromofluorobenzene 99 72 130

Concentration

Compounds: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW46-080724	Client:	Floyd-Snider
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Cantera/Time Oil, F&BI 408160 Date Received: 08/08/24 Project: Lab ID: Date Extracted: 408160-06 1/10 08/12/24 Date Analyzed: 08/13/24 Data File: $081252.\mathrm{D}$ Matrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: IJL

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	106	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	103	72	130

Concentration

Compounds: ug/L (ppb)

Vinyl chloride96cis-1,2-Dichloroethene610Benzene3.1 jTrichloroethene160

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW58R-080724	Client:	Floyd-Snider
D . D . 1		·	~

Date Received: Project: Cantera/Time Oil, F&BI 408160 08/08/24 Date Extracted: Lab ID: 08/12/24 408160-07 1/10 Date Analyzed: 08/13/24 Data File: 081251.DMatrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: IJL

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	106	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	105	72	130

Concentration

Compounds: ug/L (ppb)

Vinyl chloride 13 cis-1,2-Dichloroethene 270 Trichloroethene 23

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: 01MW108-080724 Client: Floyd-Snider

Date Received: 08/08/24 Project: Cantera/Time Oil, F&BI 408160 Lab ID: Date Extracted: 08/12/24 408160-08 Date Analyzed: 08/12/24 Data File: 081242.DMatrix: Water Instrument: GCMS11

Units: ug/L (ppb) Operator: IJL

Upper Lower Surrogates: % Recovery: Limit: Limit: 1,2-Dichloroethane-d4 97 78 126 Toluene-d8 98 84 115 4-Bromofluorobenzene 98 72 130

Concentration

Compounds: ug/L (ppb)

Vinyl chloride 0.081 cis-1,2-Dichloroethene <1 Trichloroethene <0.5

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW56-080724	Client:	Floyd-Snider

Cantera/Time Oil, F&BI 408160 Date Received: 08/08/24 Project: Lab ID: Date Extracted: 408160-09 08/12/24 Date Analyzed: 08/12/24 Data File: 081245.DMatrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: IJL

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	101	72	130

Concentration

Compounds: ug/L (ppb)

Vinyl chloride 1.2 cis-1,2-Dichloroethene <1 Trichloroethene 0.97

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: 02MW04R-080724 Client: Floyd-Snider

Date Received: 08/08/24 Project: Cantera/Time Oil, F&BI 408160

Lab ID: Date Extracted: 08/12/24 408160-10 Date Analyzed: 08/12/24 Data File: 081243.DMatrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: IJL

Upper Lower Surrogates: % Recovery: Limit: Limit: 1,2-Dichloroethane-d4 98 78 126 Toluene-d8 97 84 115 4-Bromofluorobenzene 101 72 130

Concentration

Compounds: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: 01MW15-080724	Client:	Floyd-Snider
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Cantera/Time Oil, F&BI 408160 Date Received: 08/08/24 Project: Lab ID: 408160-11 Date Extracted: 08/12/24 Date Analyzed: 08/13/24 Data File: 081254.DMatrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: IJL

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	99	72	130

Concentration

Compounds: ug/L (ppb)

Vinyl chloride 36 cis-1,2-Dichloroethene 8.9 Trichloroethene 0.59

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW80-080824	Client:	Floyd-Snider
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Date Received: 08/08/24 Project: Cantera/Time Oil, F&BI 408160 Lab ID: Date Extracted: 08/12/24 408160-12 1/10 Date Analyzed: 08/13/24 Data File: 081253.DMatrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: IJL

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	98	72	130

Concentration

Compounds: ug/L (ppb)

Vinyl chloride 65
cis-1,2-Dichloroethene 350
Benzene 2.4 j
Trichloroethene 180

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Cantera/Time Oil, F&BI 408160 Date Received: 08/08/24 Project: Lab ID: 408160-13 1/10 Date Extracted: 08/12/24 Date Analyzed: 08/13/24 Data File: $081250.\mathrm{D}$ Matrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: IJL

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	95	84	115
4-Bromofluorobenzene	98	72	130

Concentration

Compounds: ug/L (ppb)

Vinyl chloride 33 cis-1,2-Dichloroethene 1,100 Trichloroethene 6.5

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW53R-080824	Client:	Floyd-Snider
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Cantera/Time Oil, F&BI 408160 Date Received: 08/08/24 Project: Lab ID: 408160-14 Date Extracted: 08/12/24 Date Analyzed: 08/12/24 Data File: 081246.DMatrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: IJL

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	95	84	115
4-Bromofluorobenzene	98	72	130

$\begin{array}{ccc} & & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ & & \\ & \\ & & \\ &$

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: 01MW107-080824 Client: Floyd-Snider

Date Received: 08/08/24 Project: Cantera/Time Oil, F&BI 408160 Lab ID: Date Extracted: 08/12/24 408160-15 Date Analyzed: 08/12/24 Data File: 081244.DMatrix: Water Instrument: GCMS11

Units: ug/L (ppb) Operator: IJL

Upper Lower Surrogates: % Recovery: Limit: Limit: 1,2-Dichloroethane-d4 103 78 126 Toluene-d8 98 84 115 4-Bromofluorobenzene 100 72 130

Concentration

Compounds: ug/L (ppb)

Vinyl chloride <0.02 cis-1,2-Dichloroethene <1 Trichloroethene <0.5

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW	705-080824 Client	Floyd-Snider
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Cantera/Time Oil, F&BI 408160 Date Received: 08/08/24 Project: Lab ID: 408160-16 1/10 Date Extracted: 08/12/24 Date Analyzed: 08/13/24 Data File: 081249.DMatrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: IJL

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	101	72	130

Concentration

Compounds: ug/L (ppb)

Vinyl chloride 81
cis-1,2-Dichloroethene 840
Benzene 0.83 j
Trichloroethene 51

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW06-080824 Client: Floyd-Snider Date Received: 08/08/24 Project: Cantera/Time Oil, F&BI 408160 Lab ID: Date Extracted: 08/12/24 408160-17 Date Analyzed: 08/12/24 Data File: 081247.DMatrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: IJL

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	102	72	130

Concentration
ug/L (ppb)

Vinyl chloride
cis-1,2-Dichloroethene
Benzene
Trichloroethene

Concentration
ug/L (ppb)

2.0
49

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ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW06-080824-D	Client:	Floyd-Snider
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Cantera/Time Oil, F&BI 408160 Date Received: 08/08/24 Project: Lab ID: 408160-18 Date Extracted: 08/12/24 Date Analyzed: 08/13/24 Data File: 081248.DMatrix: Water Instrument: GCMS11 Units: ug/L (ppb) Operator: IJL

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	103	72	130

Concentration

Compounds: ug/L (ppb)

 $\begin{array}{lll} \mbox{Vinyl chloride} & 2.1 \\ \mbox{cis-1,2-Dichloroethene} & 50 \\ \mbox{Benzene} & <0.35 \\ \mbox{Trichloroethene} & 48 \\ \end{array}$

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: Method Blank	Client:	Floyd-Snider
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Cantera/Time Oil, F&BI 408160 Date Received: Not Applicable Project: Lab ID: 08/12/24 04-1833 mbDate Extracted: Date Analyzed: 08/12/24 Data File: 081235.DMatrix: GCMS11 Water Instrument:

Units: ug/L (ppb) Operator: IJL

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	93	84	115
4-Bromofluorobenzene	101	72	130

Concentration

Compounds: ug/L (ppb)

 $\begin{array}{lll} \mbox{Vinyl chloride} & <0.02 \\ \mbox{cis-1,2-Dichloroethene} & <1 \\ \mbox{Benzene} & <0.035\ \mbox{j} \\ \mbox{Trichloroethene} & <0.5 \end{array}$

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: 01MW85-080824 Client: Floyd-Snider

Date Received: 08/08/24 Project: Cantera/Time Oil, F&BI 408160

Date Extracted: 08/09/24 Lab ID: 408160-13 x40 Date Analyzed: 08/12/24 Data File: 408160-13 x40.148

Matrix: Water Instrument: ICPMS3 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Iron 4,300

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: MW05-080824 Client: Floyd-Snider

Date Received: 08/08/24 Project: Cantera/Time Oil, F&BI 408160

Date Extracted: 08/09/24 Lab ID: 408160-16 x40
Date Analyzed: 08/12/24 Data File: 408160-16 x40.149

Matrix: Water Instrument: ICPMS3 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Iron 2,200

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: MW06-080824 Client: Floyd-Snider

Date Received: 08/08/24 Project: Cantera/Time Oil, F&BI 408160

Date Extracted: 08/09/24 Lab ID: 408160-17 x40
Date Analyzed: 08/12/24 Data File: 408160-17 x40.150

Matrix: Water Instrument: ICPMS3 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Iron 2,900

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: Floyd-Snider

Date Received: NA Project: Cantera/Time Oil, F&BI 408160

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Iron <50

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: 01MW85-080824 Client: Floyd-Snider

Date Received: 08/08/24 Project: Cantera/Time Oil, F&BI 408160

 Date Extracted:
 08/13/24
 Lab ID:
 408160-13 x20

 Date Analyzed:
 08/14/24
 Data File:
 408160-13 x20.042

Matrix: Water Instrument: ICPMS3 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Iron 4,000

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: MW05-080824 Client: Floyd-Snider

Date Received: 08/08/24 Project: Cantera/Time Oil, F&BI 408160

Date Extracted: 08/13/24 Lab ID: 408160-16 x20 Date Analyzed: 08/14/24 Data File: 408160-16 x20.043

Matrix: Water Instrument: ICPMS3 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Iron 2,100

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: MW06-080824 Client: Floyd-Snider

Date Received: 08/08/24 Project: Cantera/Time Oil, F&BI 408160

 Date Extracted:
 08/13/24
 Lab ID:
 408160-17 x20

 Date Analyzed:
 08/14/24
 Data File:
 408160-17 x20.044

Matrix: Water Instrument: ICPMS3 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Iron 2,500

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: Method Blank Client: Floyd-Snider

Date Received: NA Project: Cantera/Time Oil, F&BI 408160

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Iron <50 k

ENVIRONMENTAL CHEMISTS

Date of Report: 08/20/24 Date Received: 08/08/24

Project: Cantera/Time Oil, F&BI 408160

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 408160-01 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Gasoline	ug/L (ppb)	1,000	96	70-130	

ENVIRONMENTAL CHEMISTS

Date of Report: 08/20/24 Date Received: 08/08/24

Project: Cantera/Time Oil, F&BI 408160

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

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	76	92	65-151	19

ENVIRONMENTAL CHEMISTS

Date of Report: 08/20/24 Date Received: 08/08/24

Project: Cantera/Time Oil, F&BI 408160

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 408160-05 (Matrix Spike)

				Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	ug/L (ppb)	10	< 0.02	117	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	106	10-211
Benzene	ug/L (ppb)	10	< 0.35	105	50-150
Trichloroethene	ug/L (ppb)	10	< 0.5	97	35 - 149

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	10	107	107	64-142	0
cis-1,2-Dichloroethene	ug/L (ppb)	10	98	99	70-130	1
Benzene	ug/L (ppb)	10	95	103	70-130	8
Trichloroethene	ug/L (ppb)	10	89	97	70-130	9

ENVIRONMENTAL CHEMISTS

Date of Report: 08/20/24 Date Received: 08/08/24

Project: Cantera/Time Oil, F&BI 408160

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

Laboratory Code: 408161-44 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Iron	ug/L (ppb)	100	209	82 b	89 b	75 - 125	8 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Iron	ug/L (ppb)	100	80	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 08/20/24 Date Received: 08/08/24

Project: Cantera/Time Oil, F&BI 408160

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 6020B

Laboratory Code: 408153-02 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Iron	ug/L (ppb)	100	87.5	104 b	81 b	75-125	25 b

			$\operatorname{Percent}$	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Iron	ug/L (ppb)	100	120	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, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. 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 standard reporting limit. 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.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- 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.

7 Company (00) Union St, Switz 600 Address Spattle, WA 98101 Report To Kishin Anduran + Ramala Osterhout 124080 - 9H MMID 01 MW 84 - 080724 DIMW49R-080724 0/MW40-080724 01 MW1912-080724 01MWSBR-080724 City, State, ZIP Floud Snider Seattle WA 98108 5500 4th Ave S. Friedman & Bruya, Inc. 01 MW 108-080724 Phone 297 1078 office@fried.manandbruya.com (206) 285-8282 02MW 04P-080724 124080 - 95NM IC 01MW12-080724 091804 Sample ID Email Lab Data Pland Sider all Project specific RLs? - Yes / No Relinquished by: Relinquished by: Received by: 120 8 97A-D 05° ¥ 0% OGATE 10 A-G 08A-C 23 0120 Lab ID m/w/cun 7440 Sampled OH, ST SAMPLE CHAIN OF CUSTODY 1538 OH:51 12.45 SH.01 T.S ー
え 10:25 SHO SHO Sampled 11:12 SAMPLERS (signature) PROJECT NAME Time REMARKS Canteral Time Oil evocs include TCE, CIS-1,2-DCE + virgicitionale Sample E Type Pamela Usterhout ひんなれ (A) 4 5 S 6 PRINT NAME phas NWTPH-Dx Pioneer NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 Flore Snicler Samples received PCBs EPA 8082 COMPANY 08/08/dy VW4/F3/K2 Default: Dispose after 30 days □ Archive samples Rush charges authorized by: Standard turnaround TURNAROUND TIME SAMPLE DISPOSAL + Sub diss; gives 10m Notes LI methane, ether DATE and ethano TIME

09180h

Report To Kristin Ancherson - Ramula Ostentinal

Address 601 Union St, Sinte 600

Phone 27 - 2070 Email Labouts @ Floyd Syder on Project specific RLs? Yes / No

SAMPLE CHAIN OF CUSTODY

SAMPLERS (signature)

Cantera Time Oil

PROJECT NAME

08/08/24 VW4/F3/K2 TURNAROUND TIME

RUSH Standard turnaround

Rush charges authorized by:

☐ Archive samples SAMPLE DISPOSAL

INVOICE TO

Default: Dispose after 30 days

	-				81)x	Эx	3021	CID	3260	3270	3082 Š	- UQB	ANALYSES REQUESTED		- 1 1	
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Da	NWTPH-G	BTEX EPA 80	NWTPH-HC	VOCs EPA 82	PAHs EPA 82	PCBs EPA 80	TOC	Banzene	Total + Diss	Im	Displayed gas
H2 F080-SIMMIO	11 A-D	8/7/24 H-30	CE: HI	Gw	H					1					4		
01 MW 80 - 080824	12 A-F	12 A-F 8 8 24 08:45	Sh:90	_	6					\	ý			<			
01 MW 85-080824	13 A-M	_,	O4:40		13					1			1		<	~	/ MOLO
01MW55R-080824	14 A-C		11:00		w					1						-	
H28080-F01WM10	15-1	æ	Sh:80		W					1							
MW05-080824	16 A-M		09:31		13					<			1	<	<	_	/
MW06-080824	7		11:00		2		-			<			<	<	<	-	/
MW06-080824-D	18 A-F	+-	11:11	+	705					1				<	+	+-	
			20		08/08									T	+	+	

5500 4th Ave S. office@friedmanandbruya.com (206) 285-8282 Seattle WA 98108 Friedman & Bruya, Inc

				Received by:	
1	t 3 °C	Samples received at		Relinquished by:	mc
lus	ng 8/8	7687	When then	Received Min M Ann	
1228	8/1/24	775	Pamela Ostenhout	Relinquished by:) Allallat	ıc.
TIME	DATE	COMPANY	PRINT NAME	SIGNATURE,	

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT# 408166	CLIENT_	Floyd	Sinder		IN.	ITIALS	S/ (ه أولم	8/08/24
If custody seals are	`,		10 W 10 W 100 N	?	Þ	NA	_ Z	ÆS	□ NO
Cooler/Sample temp	erature	ż	(i	84		Thern	nomete	r ID: Flu	8 °C ke 96312917
Were samples receiv	ed on ice/cold	l packs?		1			d's	ÆS	□ NO
How did samples are	rive? ne Counter	□ Picke	d up by F&B	I		FedEx	/UPS	s/GSO	
Is there a Chain-of-C	Custody* (CO	C)? and/or shipp	YES	□ NO		Initi Date		AP 08/0	18/24
Number of days sam	ples have bee	n sitting	g prior to re	ceipt at	lab	orato	ory _	9-1	_ days
Are the samples clea	arly identified	l? (explain	"no" answer bel	low)			p'	YES	□ NO
Were all sample con leaking etc.)? (explain			et (i.e. not b	roken,			p	YEŜ	□ NO
Were appropriate sa	ample contain	ers used	?	Z YES	5		0	o U	nknown
If custody seals are	present on sa	mples, a	re they inta	.ct?	Ø	NA	0	YES	□ NO
Are samples requiri	ng no headsp	ace, hea	dspace free	?		NA	Ø.	YES	□ NO
Is the following info	7)								
Sample ID's	✓ Yes □ No	·				[Not	on Co	OC/label
Date Sampled	Yes No	72				[] Not	on Co	JC/label
Time Sampled	Vos II No					[] Not	on Co	OC/label
# of Containers	☐ Yes ☑ No	Not on G	oc. Added	at lab fo	rM	W06-	080	824-	0 (18)
Relinquished	✓ Yes □ No								
Requested analysis	▼Yes □ On	Hold					,		
Other comments (us	se a separate pa	ige if nee	ded)						
				81					
Air Samples: Were a	any additiona	l caniste	rs/tubes rec	ceived?	P	NA		YES	□ NO

:P:\Proc_GC14\08-13-24\081327.D

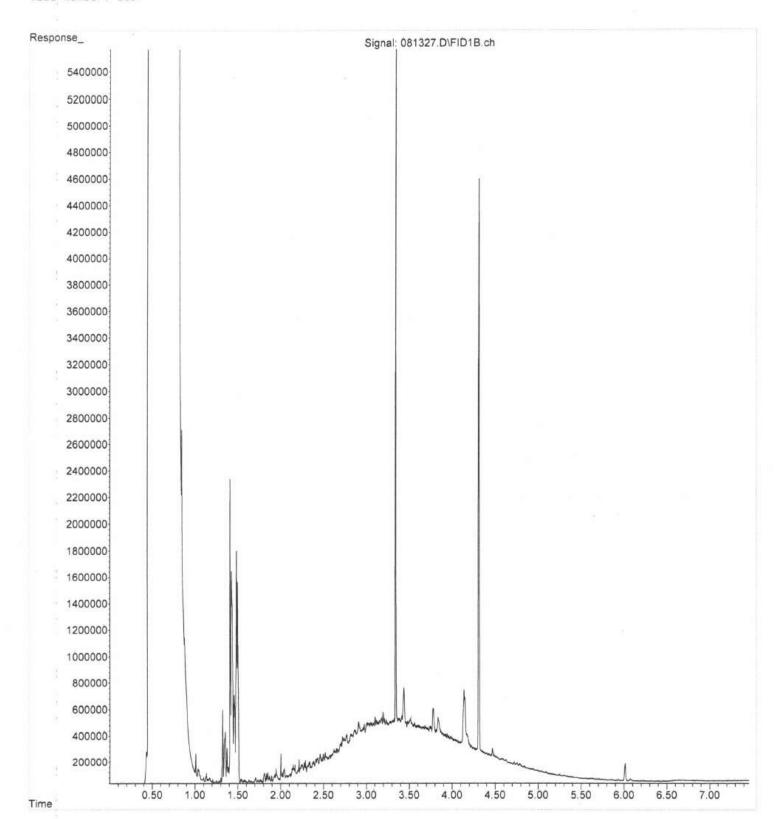
Operator : TL

Acquired : 13 Aug 2024 05:43 pm using AcqMethod DX.M

Instrument : GC14 Sample Name: 408160-01

Misc Info :

Vial Number: 105



File

:P:\Proc_GC14\08-13-24\081328.D

Operator Acquired

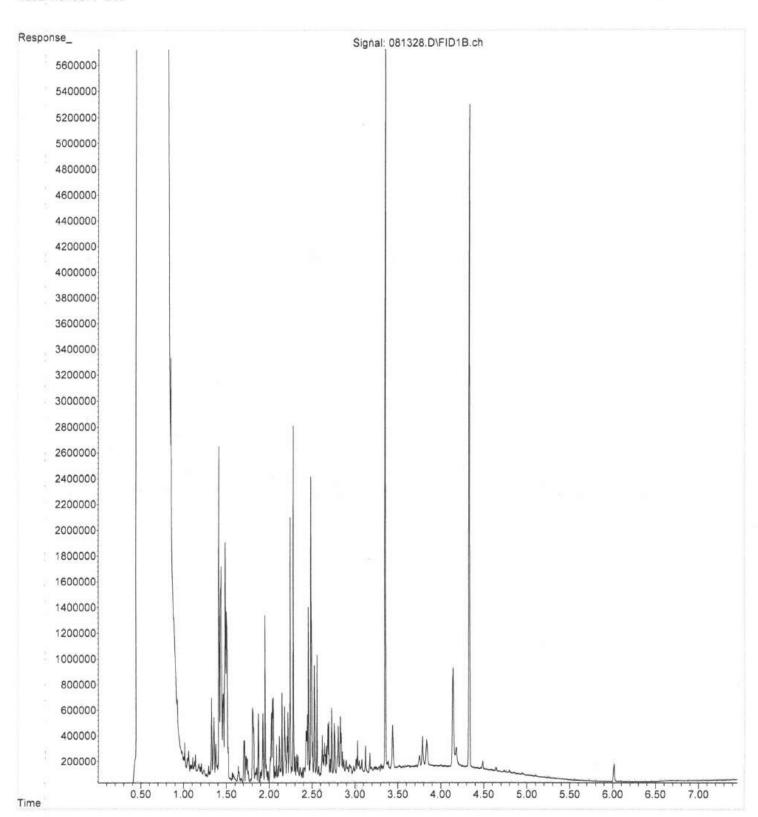
: TL

: 13 Aug 2024 05:55 pm using AcqMethod DX.M

Instrument : GC14 Sample Name: 408160-02

Misc Info :

Vial Number: 106



File

:P:\Proc_GC14\08-13-24\081329.D

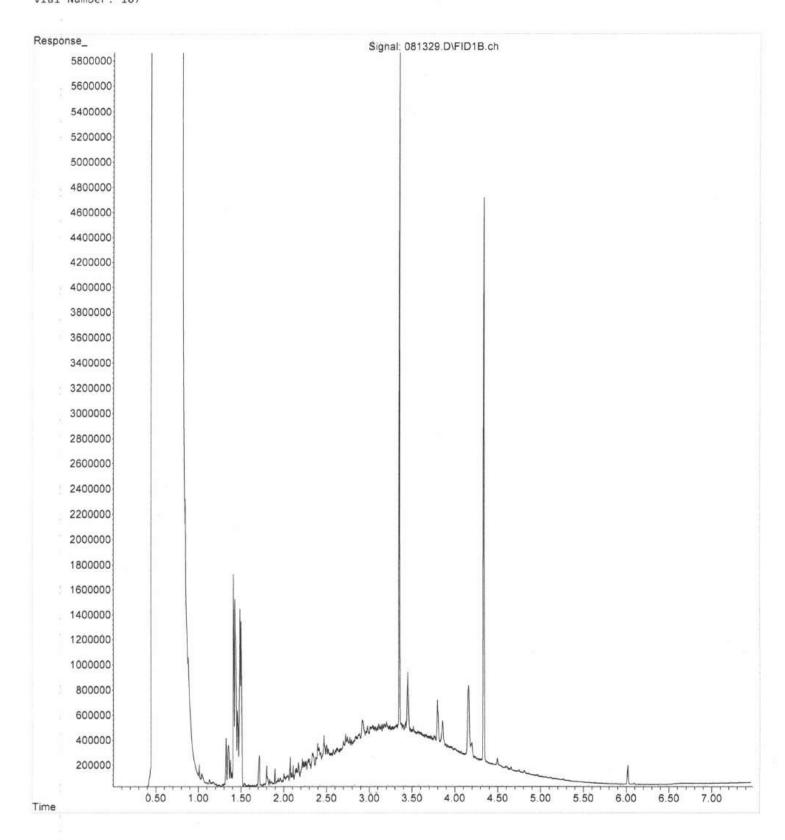
Operator : TL

Acquired : 13 Aug 2024 06:07 pm using AcqMethod DX.M

GC14 Instrument : Sample Name: 408160-03

Misc Info :

Vial Number: 107



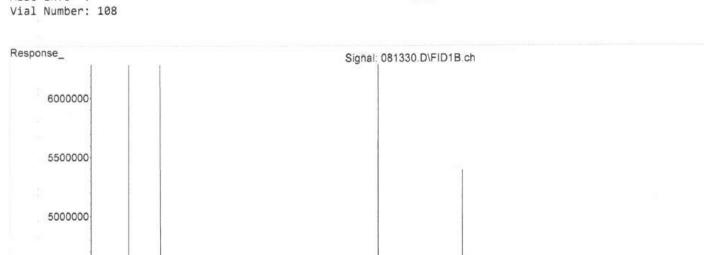
File :P:\Proc_GC14\08-13-24\081330.D

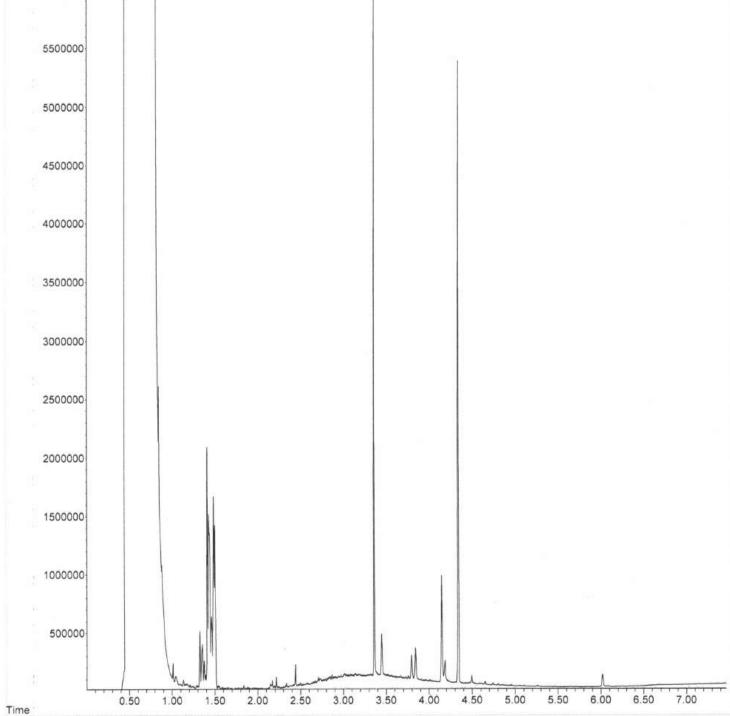
Operator : TL

Acquired : 13 Aug 2024 06:19 pm using AcqMethod DX.M

Instrument: GC14 Sample Name: 408160-04

Misc Info :





File :P:\Proc_GC14\08-13-24\081331.D

Operator : TL

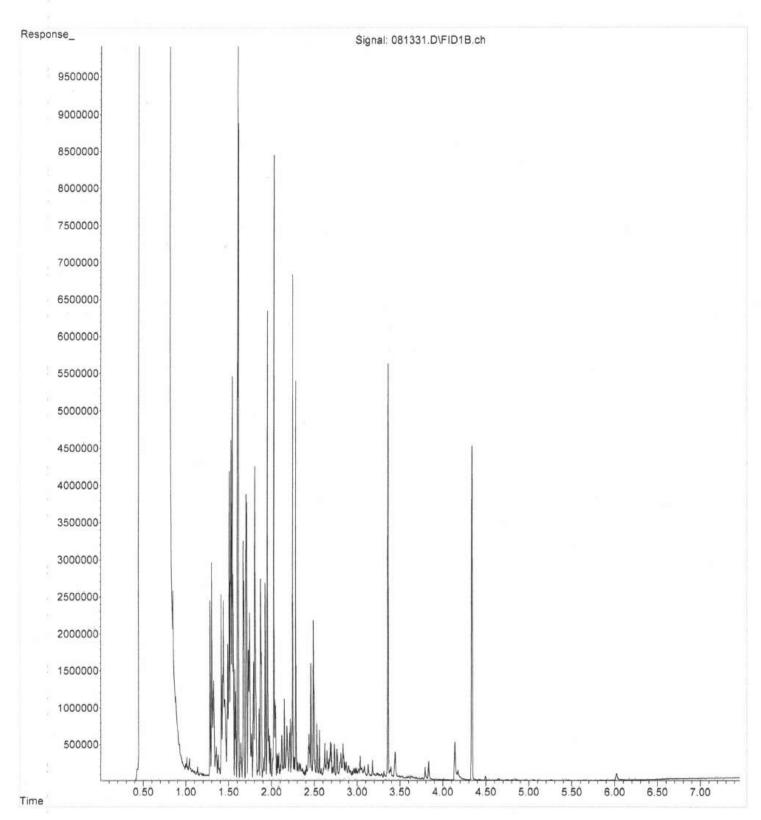
Acquired : 13 Aug 2024 06:31 pm using AcqMethod DX.M

Instrument : GC14 Sample Name: 408160-05

Misc Info :

C Info :

Vial Number: 109



File

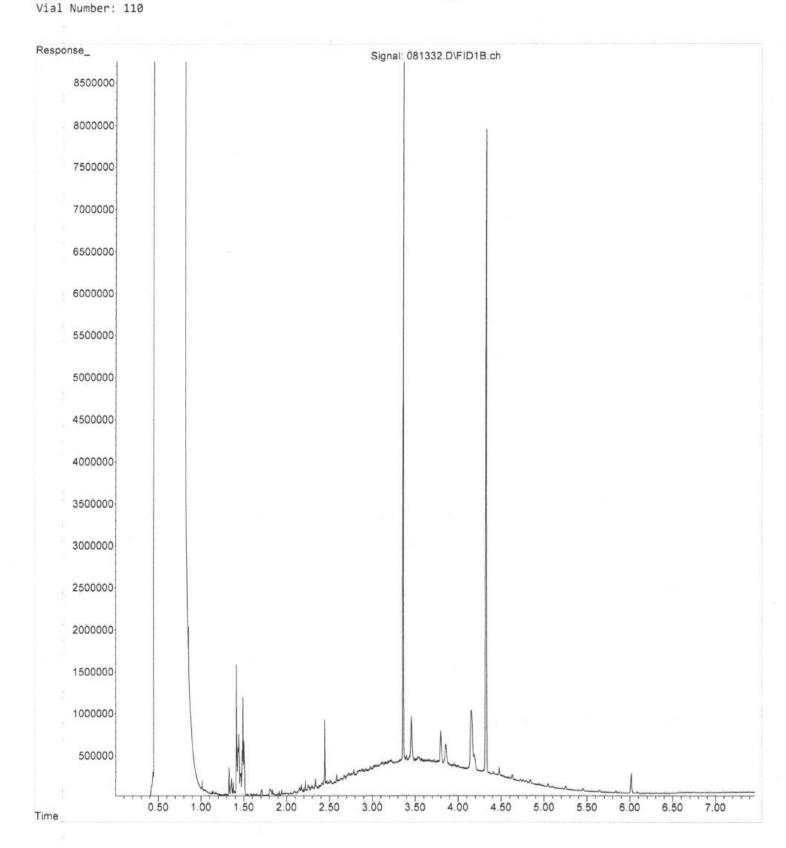
:P:\Proc_GC14\08-13-24\081332.D

Operator : TL

Acquired : 13 Aug 2024 06:43 pm using AcqMethod DX.M

Instrument : GC14 Sample Name: 408160-07

Misc Info :



File

:P:\Proc_GC14\08-13-24\081333.D

Operator

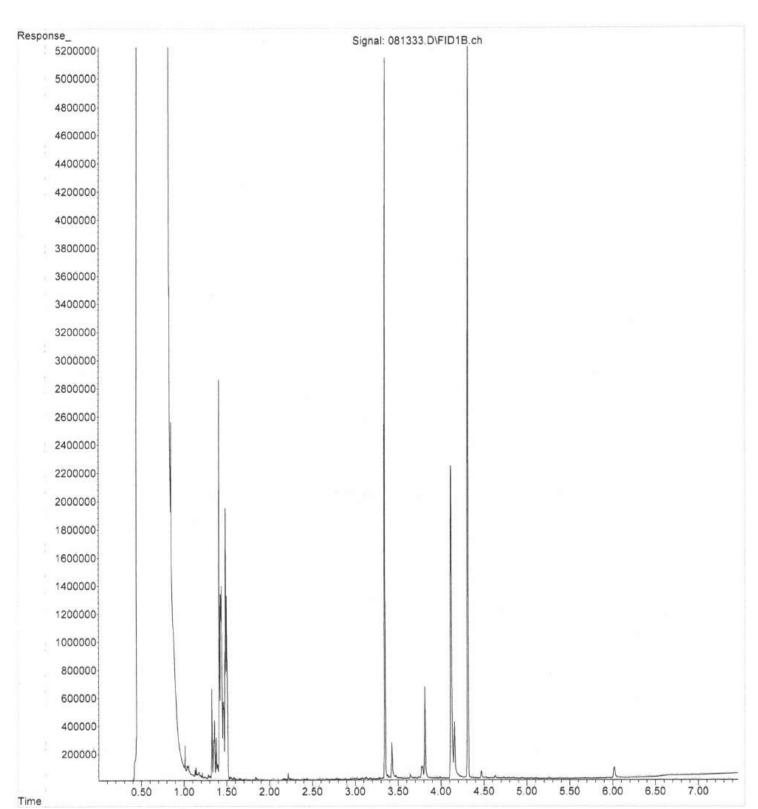
: TL

Acquired : 13 Aug 2024 06:55 pm using AcqMethod DX.M

Instrument : GC14 Sample Name: 408160-10

Misc Info

Vial Number: 111



File :P:\Proc_GC14\08-13-24\081320.D

Operator : TL

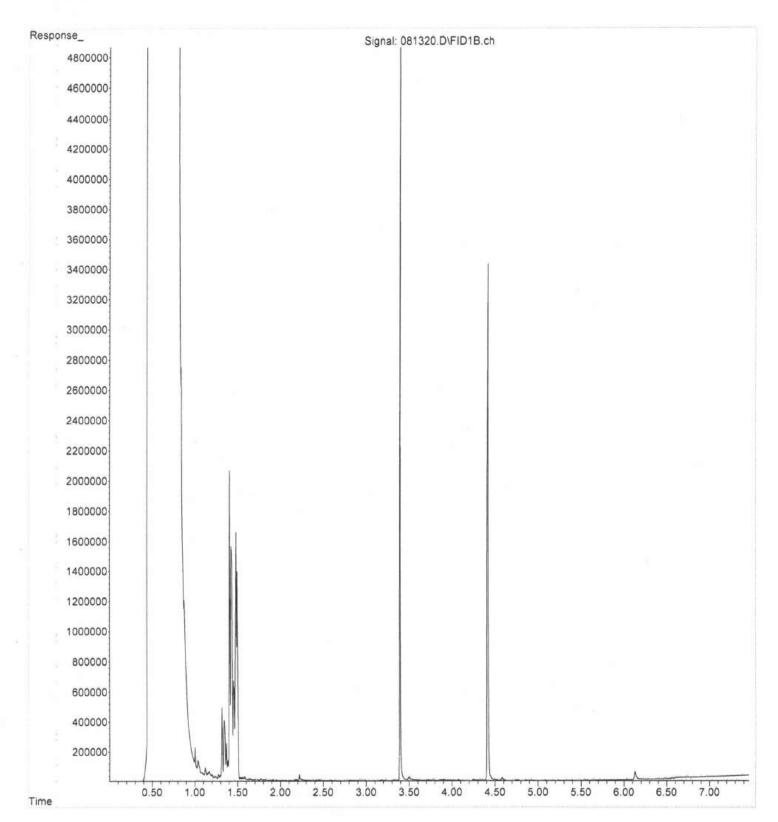
Acquired : 13 Aug 2024 01:51 pm using AcqMethod DX.M

Instrument : GC14 Sample Name: 04-1910 mb

Misc Info :

ERR

Vial Number: 102



File :P:\Proc_GC14\08-13-24\081303.D

Operator : TL

Acquired : 13 Aug 2024 09:41 am using AcqMethod DX.M

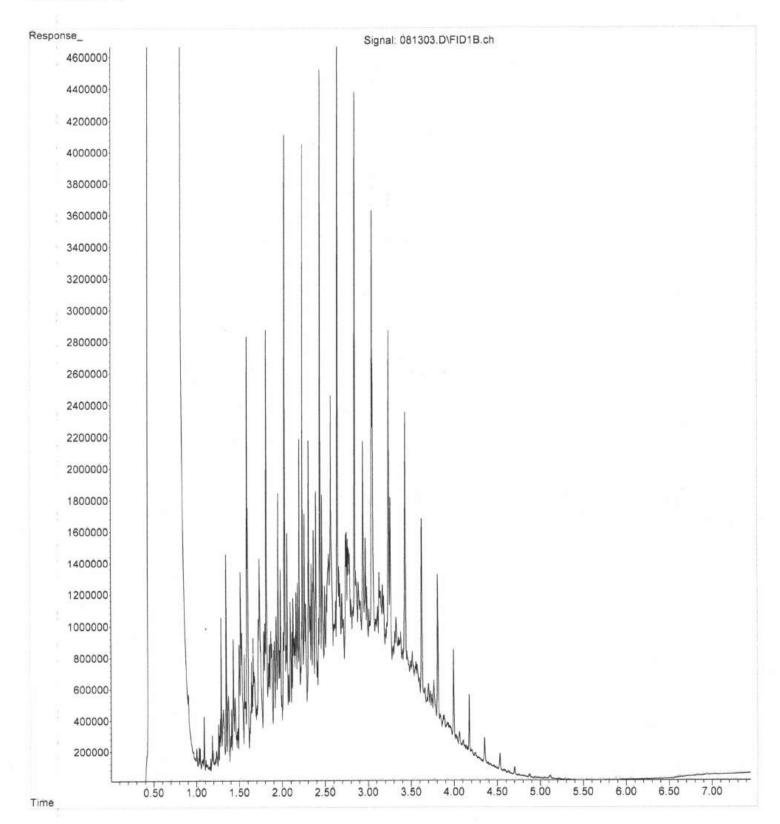
Instrument : GC14

Sample Name: 500 Dx 71-152C

Misc Info :

ERR

Vial Number: 3





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 15, 2024

Michael Erdahl Friedman & Bruya, Inc. 5500 4th Avenue South Seattle, WA 98108

Re: Analytical Data for Project 408160

Laboratory Reference No. 2408-110

Dear Michael:

Enclosed are the analytical results and associated quality control data for samples submitted on August 9, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Date of Report: August 15, 2024 Samples Submitted: August 9, 2024 Laboratory Reference: 2408-110

Project: 408160

Case Narrative

Samples were collected on August 8, 2024 and received by the laboratory on August 9, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 15, 2024 Samples Submitted: August 9, 2024 Laboratory Reference: 2408-110

Project: 408160

DISSOLVED GASES RSK 175

Matrix: Water
Units: ug/L (ppb)

J (11)				Date	Date		
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags	MDL
Client ID:	01MW85-080824						
Laboratory ID:	08-110-01						
Methane	1000	5.5	RSK 175	8-13-24	8-13-24		5.2
Ethane	ND	0.56	RSK 175	8-13-24	8-13-24		0.33
Ethene	11	0.58	RSK 175	8-13-24	8-13-24		0.33
Surrogate:	Percent Recovery	Control Limits					
1-Butene	100	50-150					
Client ID:	MW05-080824						
Laboratory ID:	08-110-02						
			_				0.52
Ethane	ND	0.56	RSK 175	8-13-24	8-13-24		0.33
Ethene	24	0.58	RSK 175	8-13-24	8-13-24		0.33
Surrogate:	Percent Recovery	Control Limits					
1-Butene	112	50-150					
Client ID:	MW06-080824						
Laboratory ID:	08-110-03						
Methane	29	0.55	RSK 175	8-13-24	8-13-24		0.52
Ethane	ND	0.56	RSK 175	8-13-24	8-13-24		0.33
Ethene	0.76	0.58	RSK 175	8-13-24	8-13-24		0.33
Surrogate:	Percent Recovery	Control Limits					
1-Butene	108	50-150					
Methane Ethane Ethene Surrogate: 1-Butene Client ID: Laboratory ID: Methane Ethane Ethene Surrogate:	Percent Recovery 112 MW06-080824 08-110-03 29 ND 0.76 Percent Recovery	Control Limits 50-150 0.55 0.56 0.58 Control Limits	RSK 175 RSK 175	8-13-24 8-13-24	8-13-24 8-13-24		0.3 0.3 0.5 0.5

Date of Report: August 15, 2024 Samples Submitted: August 9, 2024 Laboratory Reference: 2408-110

Project: 408160

DISSOLVED GASES RSK 175 QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

				Date	Date		
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags	MDL
METHOD BLANK							
Laboratory ID:	MB0813W1						
Methane	ND	0.55	RSK 175	8-13-24	8-13-24		0.52
Ethane	ND	0.56	RSK 175	8-13-24	8-13-24		0.33
Ethene	ND	0.58	RSK 175	8-13-24	8-13-24		0.33
Surrogate:	Percent Recovery	Control Limits					
1-Butene	98	50-150					

Analyte	Re	sult	Spike	Level	_	cent overy	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB08	13W1								
	SB	SBD	SB	SBD	SB	SBD				
Methane	45.3	43.3	44.2	44.2	102	98	75-125	5	25	
Ethane	84.8	81.6	83.2	83.2	102	98	75-125	4	25	
Ethene	77.7	80.3	77.7	77.7	100	103	75-125	3	25	
Surrogate:										
1-Butene					104	107	50-150			



Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical .
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1 Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 Sample extract treated with a silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference



SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Fax (206) 283-5044	Seattle, WA 98115 Ph. (206) 285-8282	5500 4th Ave S	Friedman & Bruya, Inc.							MW06-080824	MW05-080824	01MW85-080824	Sample ID		Phone # (206) 285-8282 merdahl@friedmanandbruya.com	City, State, ZIP_Sea	Address 5500 4th Ave S	CompanyFrie	Send Report To Mic
			100	ľ						W	12	_	Lab ID		82 me	ttle. W	h Ave	dman	hael l
Received by:	Relinquished by:	Relinquished by	SI							8/8/2024	8/8/2024	8/8/2024	Date Sampled		rdahl@friedma	Seattle, WA 98108	S	Friedman & Bruya.	Michael Erdahl
	1		SIGNATURA)						11:00	9:31	9:40	Time Sampled		nandbruya.con				
	4	M	1							water	water	water	Matrix			REMARKS		PROJ	SUBC OnSit
		Mac G								သ	မ	3	# of jars		ort to N	RKS		ECT	ONTH e Envi
	nown	Mac Goldman	PRIN	_						×	×	х	Dissolved Gases RSk Methane, Eth Ethene	ic.vi	Report to MDL Floyd Snider		408160	PROJECT NAME/NO.	SUBCONTRACTER OnSite Environmental
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	17)	and B	COMPANY											ED			l &		
		ruya	Y	-	-		-				_				Return samples Will call with in	SAN Dispose a	ush charg	⊠ Standard RUSH	Page #
	M/578	8/9/24	DATE										N	_	Return samples Will call with instructions	SAMPLE DISPOSAL Dispose after 30 days	Rush charges authorized by:	ard	ROUND
	COSI,	9/31	TIME										Notes		ions	SAL	1 by:		of \TIME



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

Friedman & Bruya Michael Erdahl 5500 4th Ave S Seattle, WA 98108

RE: 408160,

Work Order Number: 2408163

August 16, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 3 sample(s) on 8/9/2024 for the analyses presented in the following report.

Total Organic Carbon by SM 5310C

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

Brianna Barnes Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Date: 08/16/2024



CLIENT: Friedman & Bruya Work Order Sample Summary

Project: 408160 **Work Order:** 2408163

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2408163-001	01MW85-080824	08/08/2024 9:40 AM	08/09/2024 4:08 PM
2408163-002	MW05-080824	08/08/2024 9:31 AM	08/09/2024 4:08 PM
2408163-003	MW06-080824	08/08/2024 11:00 AM	08/09/2024 4:08 PM

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



Case Narrative

WO#: **2408163**Date: **8/16/2024**

CLIENT: Friedman & Bruya

Project: 408160

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

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

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

III. ANALYSES AND EXCEPTIONS:

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



Qualifiers & Acronyms

WO#: **2408163**

Date Reported: **8/16/2024**

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

DUP - Sample Duplicate

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MCL - Maximum Contaminant Level

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

REP - Sample Replicate

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



Analytical Report

Work Order: **2408163**Date Reported: **8/16/2024**

CLIENT: Friedman & Bruya

Project: 408160

Lab ID: 2408163-001 **Collection Date:** 8/8/2024 9:40:00 AM

Client Sample ID: 01MW85-080824 Matrix: Water

Analyses Result RL Qual Units DF Date Analyzed

Total Organic Carbon by SM 5310C Batch ID: R93706 Analyst: SLL

Total Organic Carbon 3.20 0.700 mg/L 1 8/15/2024 8:07:00 PM

Lab ID: 2408163-002 **Collection Date:** 8/8/2024 9:31:00 AM

Client Sample ID: MW05-080824 Matrix: Water

Analyses Result RL Qual Units DF Date Analyzed

Total Organic Carbon by SM 5310C Batch ID: R93706 Analyst: SLL

Total Organic Carbon 4.19 0.700 mg/L 1 8/15/2024 9:34:00 PM

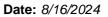
Lab ID: 2408163-003 **Collection Date:** 8/8/2024 11:00:00 AM

Client Sample ID: MW06-080824 Matrix: Water

Analyses Result RL Qual Units DF Date Analyzed

Total Organic Carbon by SM 5310C Batch ID: R93706 Analyst: SLL

Total Organic Carbon 3.26 0.700 mg/L 1 8/15/2024 9:56:00 PM





Work Order: 2408163

CLIENT: Friedman & Bruya

Project: 408160

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

400100											
Sample ID: MB-93706	SampType: MBLK			Units: mg/L		Prep Date	e: 8/15/20 2	24	RunNo: 937	706	
Client ID: MBLKW	Batch ID: R93706					Analysis Date	e: 8/15/20 2	24	SeqNo: 195	56956	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.700									
Sample ID: LCS-93706	SampType: LCS			Units: mg/L		Prep Date	e: 8/15/20 :	24	RunNo: 937	706	
Client ID: LCSW	Batch ID: R93706					Analysis Date	e: 8/15/20 2	24	SeqNo: 195	56957	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	24.6	0.700	25.00	0	98.5	87.6	109				
Sample ID: 2408163-001ADUP	SampType: DUP			Units: mg/L		Prep Date	e: 8/15/20 2	24	RunNo: 937	706	
Client ID: 01MW85-080824	Batch ID: R93706					Analysis Date	e: 8/15/20	24	SeqNo: 195	56959	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	3.17	0.700						3.203	1.13	20	
Sample ID: 2408163-001AMS	SampType: MS			Units: mg/L		Prep Date	e: 8/15/20 2	24	RunNo: 937	706	
Client ID: 01MW85-080824	Batch ID: R93706					Analysis Date	e: 8/15/20 2	24	SeqNo: 195	56960	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	26.4	0.700	25.00	3.203	92.9	76.5	111				
Sample ID: 2408163-001AMSD	SampType: MSD			Units: mg/L		Prep Date	e: 8/15/20	24	RunNo: 937	706	
Client ID: 01MW85-080824	Batch ID: R93706					Analysis Date	e: 8/15/20 :	24	SeqNo: 195	56961	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	26.2	0.700	25.00	3.203	91.8	76.5	111	26.43	1.01	30	

Original Page 6 of 8



Sample Log-In Check List

Clie	ent Name:	FB				Work O	rder Numb	oer: 2408163		
Log	ged by:	Clare Griggs				Date Re	eceived:	8/9/2024	4:08:00 PM	
<u>Chair</u>	n of Custo	ody								
1. Is	s Chain of C	ustody complete?				Yes	✓	No 🗌	Not Present	
2. H	How was the	sample delivered?	•			Clier	<u>nt</u>			
Log I	<u>In</u>									
		s present on shipp ments for Custody				Yes		No 🗌	Not Present ✓	
4. W	/as an attem	pt made to cool th	e samples?			Yes	✓	No \square	NA \square	
5. W	ere all items	s received at a tem	perature of	>2°C to 6°C	*	Yes	•	No 🗌	NA 🗌	
6. S	ample(s) in p	oroper container(s))?			Yes	✓	No 🗌		
7. S	ufficient sam	nple volume for ind	icated test(s)?		Yes	✓	No \square		
8. A	re samples p	properly preserved	?			Yes	✓	No \square		
9. W	/as preserva	tive added to bottl	es?			Yes		No 🗸	NA \square	
10. ls	there heads	space in the VOA	/ials?			Yes		No \square	NA 🗹	
11. D	id all sample	es containers arrive	e in good cor	ndition(unbro	ken)?	Yes	✓	No \square		
12. D	oes paperwo	ork match bottle la	bels?			Yes	✓	No \square		
13. A	re matrices	correctly identified	on Chain of	Custody?		Yes	•	No \square		
14. ls	it clear wha	t analyses were re	quested?			Yes	✓	No 🗌		
	lere all hold e met?	times (except field	parameters	, pH e.g.) ab	le to	Yes	✓	No 🗌		
Spec	cial Handl	ling (if applica	ble)							
16.	Was client n	otified of all discre	pancies with	this order?		Yes		No 🗆	NA 🗸	_
	Person	Notified:			Date					
	By Who	om:			Via:	eMa	ail 🗌 Ph	one 🗌 Fax	☐ In Person	
	Regard	ing:								
	Client I	nstructions:								
17.	Additional re	marks:								_
<u>ltem lı</u>	<u>nformation</u>									
		Item #		Temp °C						
	Sample			3.1						

^{*} Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

					J. 3.17		71111			7	1					_	_	
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City, State, ZIP Seattle	. WA	Seattle, WA 98108		REMARKS	RKS								_	SAMPLE DISPO Dispose after 30 days	MPLE after	SAMPLE DISPOSAL	SAL	
00	merd	ahl@friedmar	ıandbruya.com		Floyd	Floyd Snider EDD	r EDD	01	2740	2402163	N		Λ H	Return samples Will call with in	sample with	Return samples Will call with instructions	ons	
								A	NAL	ANALYSES REQUESTED	REQU	ESTE	l		Ц			
Sample ID L	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	TOC										z	Notes	
)1MW85-080824		8/8/2024	9:40	water	1	×												
MW05-080824		8/8/2024	9:31	water	1	х												
MW06-080824		8/8/2024	11:00	water		×												
	\perp										\perp	\perp		_	\perp			
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Friedman & Bruya, Inc.		SIGNATURE	SALVER	0		PR	PRINT NAME	AME			-	COM	COMPANY		שו	DATE	TIME	
5500 4th Ave S Seattle WA 98115	Re	Received by:	N	1	Mac G						Friedman and Bruya	nan a	nd Br	uya	3 0	8/124	15:16	41
Ph. (206) 285-8282	Re	Relinquished by:			Julia		MWHONX	10/10			3	5			0	12/1	000	
Fax (206) 283-5044	Re	Received by:													1			