



TRANSMITTAL

Project No.: 130046

June 10, 2024

<p>Attn: Thomas Middleton, Washington State Department of Ecology</p> <p>Sophia Petro, Washington State Department of Health</p> <p>David Wayne Johnson, Jefferson County Department of Community Development</p>	<p>Re: Olympic Water and Sewer, Inc. Year 5 (2024) Groundwater Results</p>
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We are sending the following via:

- | | | |
|---|--|--|
| <input type="checkbox"/> Regular Mail | <input checked="" type="checkbox"/> E-Mail | <input type="checkbox"/> Hand Deliver |
| <input type="checkbox"/> Overnight Delivery | <input type="checkbox"/> Courier | <input type="checkbox"/> Client Pickup |

Qty	Description
1	Table 1 – Groundwater Analytical Results
1	Figure 1 – Site Plan
1	Attachment 1 – Laboratory Analytical Report

Remarks: The Year 5 (2024) groundwater monitoring results for water supply wells Well #2 and Well #18 are tabulated in Table 1. Toluene was detected above the laboratory detection limit but below the Model Toxics Control Act (MTCA) Method A cleanup level in the sample collected from Well #18. Constituents were not detected above the laboratory detection limits in the sample collected from Well #2. The locations of the wells are shown on Figure 1.

<p>cc: Sarah Steffan, Raydient</p> <p>Susan Porto, Jefferson County Department of Public Health</p> <p>Emma Erickson, Jefferson County Department of Public Health</p> <p>Michael Dawson, Jefferson County Department of Public Health</p>	<p>Sent by: Eric Maise, PE Project Engineer eric.maise@aspectconsulting.com</p>
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V:\130046 OPG Port Ludlow Property\Deliverables\Data Transmittals\Year 5 Transmittal\Year 5 (2024) Data Transmittal.docx

Table 1. Year 5 Groundwater Analytical Results

Project No. 130046, Port Ludlow, Washington

			Location Date Sample Notes	W-2 05/08/2024 WELL #2-240508	W-18 05/10/2024 WELL #18-240510
Analyte	Unit	MTCA Method A Cleanup Level			
TPHs					
Gasoline-Range Organics	ug/L	800 1000		< 100 U	< 100 U
BTEX					
Benzene	ug/L	5		< 1 U	< 1 U
Toluene	ug/L	1000		< 1 U	2.1
Ethylbenzene	ug/L	700		< 1 U	< 1 U
Total Xylenes	ug/L	1000		< 3 U	< 3 U

Notes:

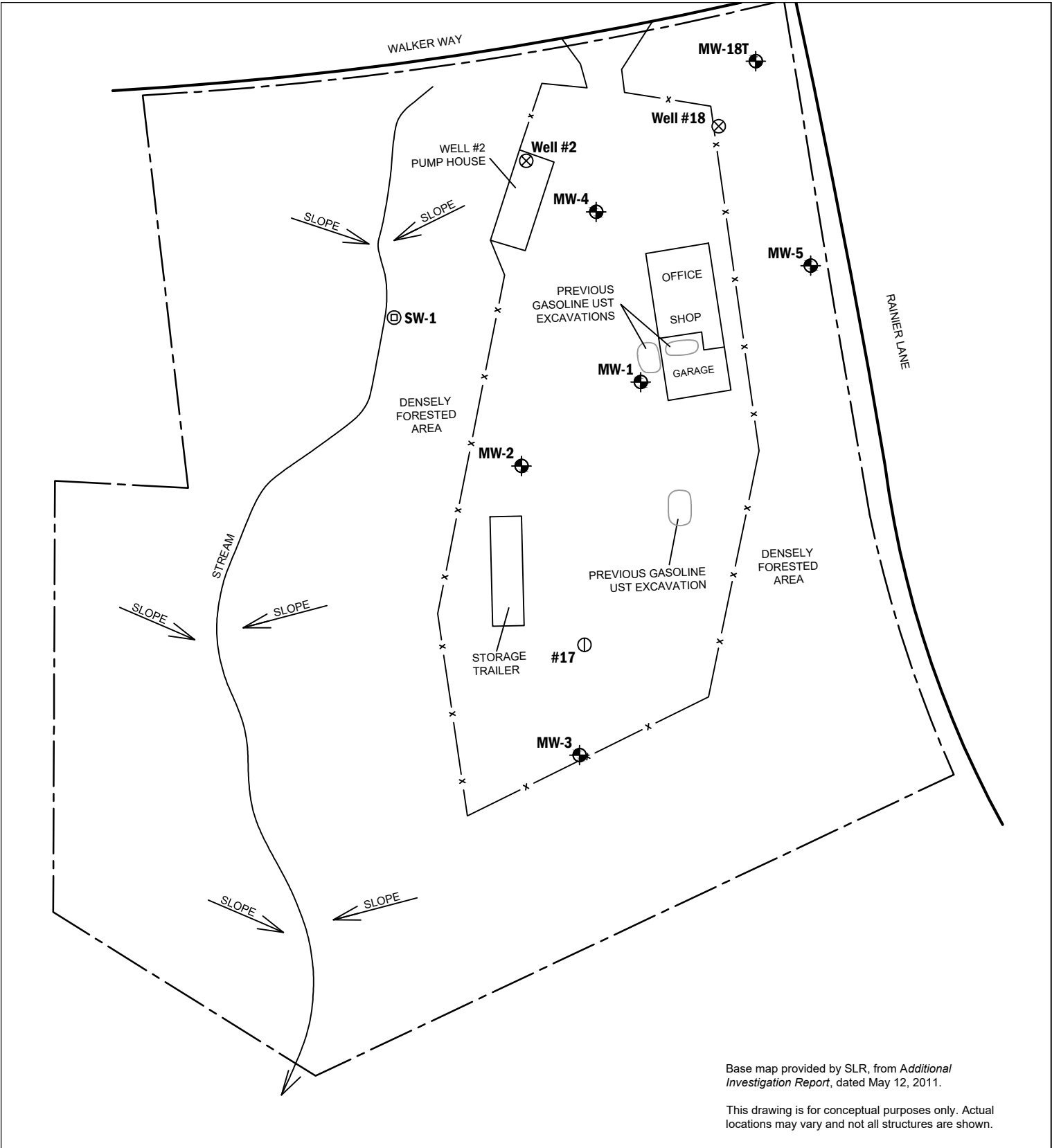
Bold - detected

Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

µg/L - micrograms per liter

Gasoline Range Total Petroleum Hydrocarbons (TPH) are screened against a tighter value when benzene is present in the sample.




Legend

- ⊕ Monitoring Well Location
- ⊙ Stream Sample Location
- ⊗ Water Supply Well Location
- ⓪ Existing Casing Location

Site Plan

Year 5 Annual Groundwater Monitoring Report
Olympic Water & Sewer, Inc.
Port Ludlow, Washington

	May-2024	BY: DWU/SCC/CMV	FIGURE NO.
	PROJECT NO. 130046	REVISED BY: -	1

ATTACHMENT 1

Laboratory Analytical Report

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

May 21, 2024

Eric Maise, Project Manager
Aspect Consulting
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Maise:

Included are the results from the testing of material submitted on May 10, 2024 from the OWSI AS130046, F&BI 405191 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Aspect Data, Carmen Tappero
ASP0521R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 10, 2024 by Friedman & Bruya, Inc. from the Aspect Consulting OWSI AS130046, F&BI 405191 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting</u>
405191 -01	SW-1-240508
405191 -02	MW-5-240508
405191 -03	MW-4-240508
405191 -04	MW-3-240508
405191 -05	Well #2-240508
405191 -06	MW-18T-240508
405191 -07	Trip Blanks

Samples MW-5-240508, MW-4-240508, MW-3-240508, and MW-18T-240508 were sent to Alliance Technical Group for sulfate, nitrate, nitrite, alkalinity, and RSK-175 analyses. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/24
 Date Received: 05/10/24
 Project: OWSI AS130046, F&BI 405191
 Date Extracted: 05/13/24
 Date Analyzed: 05/13/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
SW-1-240508 405191-01	<1	<1	<1	<3	<100	69
MW-5-240508 405191-02	<1	<1	<1	<3	<100	67
MW-4-240508 405191-03	<1	<1	<1	<3	<100	67
MW-3-240508 405191-04	<1	<1	<1	<3	<100	65
Well #2-240508 405191-05	<1	<1	<1	<3	<100	74
MW-18T-240508 405191-06	<1	<1	<1	<3	<100	69
Trip Blanks 405191-07	<1	<1	<1	<3	<100	70
Method Blank 04-889 MB	<1	<1	<1	<3	<100	71

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-5-240508	Client:	Aspect Consulting
Date Received:	05/10/24	Project:	OWSI AS130046, F&BI 405191
Date Extracted:	05/13/24	Lab ID:	405191-02
Date Analyzed:	05/13/24	Data File:	405191-02.133
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Manganese	4.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-4-240508	Client:	Aspect Consulting
Date Received:	05/10/24	Project:	OWSI AS130046, F&BI 405191
Date Extracted:	05/13/24	Lab ID:	405191-03
Date Analyzed:	05/13/24	Data File:	405191-03.134
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Manganese	1.5
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-3-240508	Client:	Aspect Consulting
Date Received:	05/10/24	Project:	OWSI AS130046, F&BI 405191
Date Extracted:	05/13/24	Lab ID:	405191-04
Date Analyzed:	05/13/24	Data File:	405191-04.135
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-18T-240508	Client:	Aspect Consulting
Date Received:	05/10/24	Project:	OWSI AS130046, F&BI 405191
Date Extracted:	05/13/24	Lab ID:	405191-06
Date Analyzed:	05/13/24	Data File:	405191-06.136
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Manganese	3.1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Aspect Consulting
Date Received:	NA	Project:	OWSI AS130046, F&BI 405191
Date Extracted:	05/13/24	Lab ID:	I4-390 mb
Date Analyzed:	05/13/24	Data File:	I4-390 mb.074
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/24

Date Received: 05/10/24

Project: OWSI AS130046, F&BI 405191

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 405191-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	96	70-130
Toluene	ug/L (ppb)	50	94	70-130
Ethylbenzene	ug/L (ppb)	50	96	70-130
Xylenes	ug/L (ppb)	150	93	70-130
Gasoline	ug/L (ppb)	1,000	100	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/24

Date Received: 05/10/24

Project: OWSI AS130046, F&BI 405191

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

Laboratory Code: 405182-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Manganese	ug/L (ppb)	20	164	88 b	60 b	75-125	38 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Manganese	ug/L (ppb)	20	95	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, 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.

405191

Carmen Tappero Aspect Consulting.com
SAMPLE CHAIN OF CUSTODY

05/10/24

WS/K3

Report To: Eric Maise + Carmen Tappero

Company: Aspect Consulting

Address: 710 2nd Ave #550

City, State, ZIP: WA, Seattle, 98104

Phone: Email: Eric.Maise@aspectconsulting.com

SAMPLERS (signature)
PROJECT NAME: OWS1
PO #: AS130046

REMARKS
INVOICE TO

TURNAROUND TIME
Standard turnaround
RUSH
Rush charges authorized by:
SAMPLE DISPOSAL
Archive samples
Other
Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Sulfate EPA 300.0	Nitrate/Nitrite 352.2	diss. Methane m 175		diss. Mn	Alkalinity
SW-1-240508	01A-C	5/8/24	0830	W	3	X	X	X										
MU-5-240508	02A-I		1005		9							X	X	X	X			
MU-4-240508	03A-H		1430		9													
MU-3-240508	04A-I		1330		9													
Well #2-240508	05A-C		1220		3													
MU-18T-240508	06A-I		1540		9													
Trip Blanks	07A-B			W	2	X	X											

GBTX only per CT ME 05/13/24 Well#2

Samples received at 2

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>[Signature]</i>	Carmen Tappero	Aspect Consulting	5/9/24	1330
Received by: <i>[Signature]</i>	ANHDPHAN	EBB	05/10/24	10:05
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
Ph. (206) 285-8282

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 405191 CLIENT Asp INITIALS/ DATE: (NP) 05/10/24

If custody seals are present on cooler, are they intact? NA YES NO

Cooler/Sample temperature 2 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? YES NO

How did samples arrive?
 Over the Counter Picked up by F&BI FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? YES NO
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 2 days

Are the samples clearly identified? (explain "no" answer below) YES NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) YES NO

Were appropriate sample containers used? YES NO Unknown

If custody seals are present on samples, are they intact? NA YES NO

Are samples requiring no headspace, headspace free? NA YES NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

- Sample ID's Yes No _____
- Date Sampled Yes No _____ Not on COC/label
- Time Sampled Yes No _____ Not on COC/label
- # of Containers Yes No _____ Not on COC/label
- Relinquished Yes No _____
- Requested analysis Yes On Hold _____

Other comments (use a separate page if needed)
Sample MW-4-240508, received 8 containers and one 250 ml poly bottle F.F no Sample ID

Air Samples: Were any additional canisters/tubes received? NA YES NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

ORIGIN ID:BFIA (561) 995-0900
KIM PEABODY

710 2ND AVENUE
SUITE 550
SEATTLE, WA 98104
UNITED STATES US

SHIP DATE: 09MAY24
ACTWGT: 40.00 LB
CAD: 259316664/INET4535
DIMS: 23x15x14 IN
BILL SENDER

TO **FRIEDMAN & BRUYEA**

5500 4TH AVE S

SEATTLE WA 98108

(206) 838-6591
INV: 025
PO: 002

REF: AS130046

DEPT: 3730

583J3C1379AE3



FedEx
Express



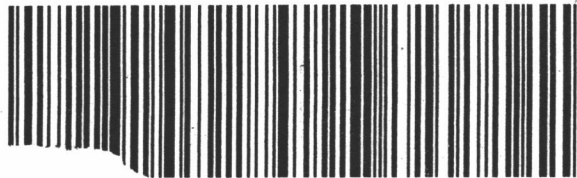
FRI - 10 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 7763 1473 1132
0201

85 BFIA

98108

WA-US SEA



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

RE: 405191, E-191
Work Order Number: 2405207

May 17, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 4 sample(s) on 5/10/2024 for the analyses presented in the following report.

Dissolved Gases by RSK-175
Ion Chromatography by EPA 300.0
Total Alkalinity by SM 2320B
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

Original



CLIENT: Friedman & Bruya
Project: 405191
Work Order: 2405207

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2405207-001	MW-5-240508	05/08/2024 10:05 AM	05/10/2024 11:45 AM
2405207-002	MW-4-240508	05/08/2024 2:30 PM	05/10/2024 11:45 AM
2405207-003	MW-3-240508	05/08/2024 1:30 PM	05/10/2024 11:45 AM
2405207-004	MW-18T-240508	05/08/2024 3:40 PM	05/10/2024 11:45 AM

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

CLIENT: Friedman & Bruya

Project: 405191

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:

- * - 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

CLIENT: Friedman & Bruya
Project: 405191

Lab ID: 2405207-001

Collection Date: 5/8/2024 10:05:00 AM

Client Sample ID: MW-5-240508

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R91779		Analyst: LB
Methane	ND	0.00500		mg/L	1	5/16/2024 12:54:00 PM
<u>Ion Chromatography by EPA 300.0</u>				Batch ID: 43868		Analyst: FG
Nitrate (as N)+Nitrite (as N)	ND	0.400		mg/L	1	5/11/2024 6:49:00 AM
Sulfate	5.33	1.00		mg/L	1	5/11/2024 6:49:00 AM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R91680		Analyst: FG
Total Organic Carbon	ND	0.700		mg/L	1	5/15/2024 3:27:00 AM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R91787		Analyst: NR
Alkalinity, Total (As CaCO3)	113	2.50		mg/L	1	5/16/2024 4:50:02 PM

Lab ID: 2405207-002

Collection Date: 5/8/2024 2:30:00 PM

Client Sample ID: MW-4-240508

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R91779		Analyst: LB
Methane	ND	0.00500		mg/L	1	5/16/2024 12:56:00 PM
<u>Ion Chromatography by EPA 300.0</u>				Batch ID: 43868		Analyst: FG
Nitrate (as N)+Nitrite (as N)	ND	0.400		mg/L	1	5/11/2024 7:43:00 AM
Sulfate	8.17	1.00		mg/L	1	5/11/2024 7:43:00 AM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R91680		Analyst: FG
Total Organic Carbon	ND	0.700		mg/L	1	5/15/2024 5:10:00 AM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R91787		Analyst: NR
Alkalinity, Total (As CaCO3)	99.1	2.50		mg/L	1	5/16/2024 4:50:02 PM

CLIENT: Friedman & Bruya
Project: 405191

Lab ID: 2405207-003 **Collection Date:** 5/8/2024 1:30:00 PM
Client Sample ID: MW-3-240508 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R91779		Analyst: LB
Methane	ND	0.00500		mg/L	1	5/16/2024 12:58:00 PM
<u>Ion Chromatography by EPA 300.0</u>				Batch ID: 43868		Analyst: FG
Nitrate (as N)+Nitrite (as N)	1.12	0.400		mg/L	1	5/11/2024 9:00:00 AM
Sulfate	17.4	1.00		mg/L	1	5/14/2024 3:55:00 AM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R91680		Analyst: FG
Total Organic Carbon	0.719	0.700		mg/L	1	5/15/2024 5:32:00 AM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R91787		Analyst: NR
Alkalinity, Total (As CaCO3)	186	2.50		mg/L	1	5/16/2024 4:50:02 PM

Lab ID: 2405207-004 **Collection Date:** 5/8/2024 3:40:00 PM
Client Sample ID: MW-18T-240508 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R91779		Analyst: LB
Methane	ND	0.00500		mg/L	1	5/16/2024 1:08:00 PM
<u>Ion Chromatography by EPA 300.0</u>				Batch ID: 43868		Analyst: FG
Nitrate (as N)+Nitrite (as N)	ND	0.400		mg/L	1	5/11/2024 9:26:00 AM
Sulfate	8.20	1.00		mg/L	1	5/11/2024 9:26:00 AM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R91680		Analyst: FG
Total Organic Carbon	0.939	0.700		mg/L	1	5/15/2024 5:53:00 AM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R91787		Analyst: NR
Alkalinity, Total (As CaCO3)	145	2.50		mg/L	1	5/16/2024 4:50:02 PM

Work Order: 2405207
CLIENT: Friedman & Bruya
Project: 405191

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

Sample ID: MB-R91787	SampType: MBLK	Units: mg/L	Prep Date: 5/16/2024	RunNo: 91787							
Client ID: MBLKW	Batch ID: R91787	Analysis Date: 5/16/2024	SeqNo: 1914978								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	2.50									

Sample ID: LCS-R91787	SampType: LCS	Units: mg/L	Prep Date: 5/16/2024	RunNo: 91787							
Client ID: LCSW	Batch ID: R91787	Analysis Date: 5/16/2024	SeqNo: 1914979								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	106	2.50	100.0	0	106	89.7	129.7				

Sample ID: 2405207-001ADUP	SampType: DUP	Units: mg/L	Prep Date: 5/16/2024	RunNo: 91787							
Client ID: MW-5-240508	Batch ID: R91787	Analysis Date: 5/16/2024	SeqNo: 1914981								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	112	2.50						112.9	1.07	20	

Work Order: 2405207
 CLIENT: Friedman & Bruya
 Project: 405191

QC SUMMARY REPORT
Ion Chromatography by EPA 300.0

Sample ID: LCS-43868	SampType: LCS	Units: mg/L				Prep Date: 5/10/2024	RunNo: 91620				
Client ID: LCSW	Batch ID: 43868					Analysis Date: 5/10/2024	SeqNo: 1911131				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)+Nitrite (as N)	1.48	0.400	1.500	0	98.5	90	110				
Sulfate	3.55	1.00	3.750	0	94.7	90	110				

Sample ID: MB-43868	SampType: MBLK	Units: mg/L				Prep Date: 5/10/2024	RunNo: 91620				
Client ID: MBLKW	Batch ID: 43868					Analysis Date: 5/10/2024	SeqNo: 1911133				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)+Nitrite (as N)	ND	0.400									
Sulfate	ND	1.00									

Sample ID: 2405211-003BDUP	SampType: DUP	Units: mg/L				Prep Date: 5/10/2024	RunNo: 91620				
Client ID: BATCH	Batch ID: 43868					Analysis Date: 5/11/2024	SeqNo: 1911142				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)+Nitrite (as N)	ND	0.400						0		20	
Sulfate	6.94	1.00						6.912	0.447	20	

Sample ID: 2405211-003BMS	SampType: MS	Units: mg/L				Prep Date: 5/10/2024	RunNo: 91620				
Client ID: BATCH	Batch ID: 43868					Analysis Date: 5/11/2024	SeqNo: 1911143				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)+Nitrite (as N)	1.48	0.400	1.500	0	98.7	80	120				
Sulfate	10.7	1.00	3.750	6.912	102	80	120				

Sample ID: LCS-43905	SampType: LCS	Units: mg/L				Prep Date: 5/13/2024	RunNo: 91669				
Client ID: LCSW	Batch ID: 43905					Analysis Date: 5/13/2024	SeqNo: 1912049				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.54	1.00	3.750	0	94.4	90	110				

Work Order: 2405207
 CLIENT: Friedman & Bruya
 Project: 405191

QC SUMMARY REPORT
Ion Chromatography by EPA 300.0

Sample ID: MB-43905	SampType: MBLK	Units: mg/L			Prep Date: 5/13/2024	RunNo: 91669					
Client ID: MBLKW	Batch ID: 43905				Analysis Date: 5/13/2024	SeqNo: 1912051					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 1.00

Sample ID: 2405118-001BDUP	SampType: DUP	Units: mg/L			Prep Date: 5/13/2024	RunNo: 91669					
Client ID: BATCH	Batch ID: 43905				Analysis Date: 5/13/2024	SeqNo: 1912057					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate 13.1 1.00 13.28 1.14 20

Sample ID: 2405118-001BMS	SampType: MS	Units: mg/L			Prep Date: 5/13/2024	RunNo: 91669					
Client ID: BATCH	Batch ID: 43905				Analysis Date: 5/13/2024	SeqNo: 1912058					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate 17.1 1.00 3.750 13.28 102 80 120

Sample ID: 2405118-001BMSD	SampType: MSD	Units: mg/L			Prep Date: 5/13/2024	RunNo: 91669					
Client ID: BATCH	Batch ID: 43905				Analysis Date: 5/13/2024	SeqNo: 1912059					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate 16.9 1.00 3.750 13.28 95.2 80 120 17.10 1.46 20

Sample ID: 2405200-002CDUP	SampType: DUP	Units: mg/L			Prep Date: 5/13/2024	RunNo: 91669					
Client ID: BATCH	Batch ID: 43905				Analysis Date: 5/14/2024	SeqNo: 1912068					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate 5.69 1.00 5.716 0.456 20

Work Order: 2405207
CLIENT: Friedman & Bruya
Project: 405191

QC SUMMARY REPORT
Ion Chromatography by EPA 300.0

Sample ID: 2405200-002CMS	SampType: MS	Units: mg/L	Prep Date: 5/13/2024	RunNo: 91669							
Client ID: BATCH	Batch ID: 43905		Analysis Date: 5/14/2024	SeqNo: 1912069							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	9.26	1.00	3.750	5.716	94.5	80	120				

Work Order: 2405207
 CLIENT: Friedman & Bruya
 Project: 405191

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: MB-91680	SampType: MBLK	Units: mg/L			Prep Date: 5/14/2024	RunNo: 91680
Client ID: MBLKW	Batch ID: R91680				Analysis Date: 5/14/2024	SeqNo: 1912582
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-91680	SampType: LCS	Units: mg/L			Prep Date: 5/14/2024	RunNo: 91680
Client ID: LCSW	Batch ID: R91680				Analysis Date: 5/14/2024	SeqNo: 1912583
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Organic Carbon	4.94	0.700	5.000	0	98.7	90.6 119

Sample ID: 2405160-001BDUP	SampType: DUP	Units: mg/L			Prep Date: 5/14/2024	RunNo: 91680
Client ID: BATCH	Batch ID: R91680				Analysis Date: 5/14/2024	SeqNo: 1912585
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Organic Carbon	1.46	0.700				1.466 0.616 20

Sample ID: 2405160-001BMS	SampType: MS	Units: mg/L			Prep Date: 5/14/2024	RunNo: 91680
Client ID: BATCH	Batch ID: R91680				Analysis Date: 5/14/2024	SeqNo: 1912586
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Organic Carbon	6.65	0.700	5.000	1.466	104	74.4 117

Sample ID: 2405160-001BMSD	SampType: MSD	Units: mg/L			Prep Date: 5/14/2024	RunNo: 91680
Client ID: BATCH	Batch ID: R91680				Analysis Date: 5/14/2024	SeqNo: 1912587
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Organic Carbon	6.29	0.700	5.000	1.466	96.5	74.4 117 6.654 5.64 30

Work Order: 2405207
CLIENT: Friedman & Bruya
Project: 405191

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: 2405211-001DDUP		SampType: DUP		Units: mg/L		Prep Date: 5/15/2024		RunNo: 91680			
Client ID: BATCH		Batch ID: R91680				Analysis Date: 5/15/2024		SeqNo: 1912600			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	2.80	0.700						2.807	0.428	20	

Sample ID: 2405211-001DMS		SampType: MS		Units: mg/L		Prep Date: 5/15/2024		RunNo: 91680			
Client ID: BATCH		Batch ID: R91680				Analysis Date: 5/15/2024		SeqNo: 1912601			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	7.53	0.700	5.000	2.807	94.4	74.4	117				

Work Order: 2405207
CLIENT: Friedman & Bruya
Project: 405191

QC SUMMARY REPORT
Dissolved Gases by RSK-175

Sample ID: LCS-R91779	SampType: LCS	Units: ppmv	Prep Date: 5/16/2024	RunNo: 91779							
Client ID: LCSW	Batch ID: R91779		Analysis Date: 5/16/2024	SeqNo: 1914871							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	935	0.00500	1,000	0	93.5	73.6	124				

Sample ID: MB-R91779	SampType: MBLK	Units: mg/L	Prep Date: 5/16/2024	RunNo: 91779							
Client ID: MBLKW	Batch ID: R91779		Analysis Date: 5/16/2024	SeqNo: 1914874							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00500									

Sample ID: 2405200-001AREP	SampType: REP	Units: mg/L	Prep Date: 5/16/2024	RunNo: 91779							
Client ID: BATCH	Batch ID: R91779		Analysis Date: 5/16/2024	SeqNo: 1914853							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	0.00855	0.00500						0.008822	3.12	30	

Client Name: FB	Work Order Number: 2405207
Logged by: Morgan Wilson	Date Received: 5/10/2024 11:45:00 AM

Chain of Custody

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

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text" value="Michael Erdahl"/>	Date:	<input type="text" value="5/10/2024"/>
By Whom:	<input type="text" value="Morgan Wilson"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Nitrate/Nitrite Method"/>		
Client Instructions:	<input type="text" value="Okay to proceed with 300"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.9

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

2405207

SUBCONTRACTOR Fremont		PROJECT NAME/NO. 405191	PO # E-191
REMARKS Aspect EDD			

TURNAROUND TIME <input checked="" type="checkbox"/> Standard TAT RUSH _____	Rush charges authorized by: _____
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions	

Send Report To Michael Erdahl
 Company Friedman and Bruya, Inc.
 Address 5500 4th Ave S
 City, State, ZIP Seattle, WA 98108
 Phone # (206) 285-8282 merdahl@friedmanandbruya.com

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED							Notes			
						Sulfate	Nitrate/Nitrite 352.2	RSK Methane	Alkalinity	TOC	Nitrate	Nitrite		Sulfate	Chloride	
MW-5-240508		5/8/2024	1005	water	X	X	X	X	X							
MW-4-240508		5/8/2024	1430	water	X	X	X	X	X							
MW-3-240508		5/8/2024	1330	water	X	X	X	X	X							
Well#2 240508		5/8/2024	1220	water	X	X	X	X	X							No, ME
MW-18T-240508		5/8/2024	1540	water	X	X	X	X	X							

Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029 Ph. (206) 285-8282 Fax (206) 283-5044		SIGNATURE 		PRINT NAME Michael Erdahl		COMPANY Friedman & Bruya		DATE 5/10/24	TIME 11:45
Received by:		Received by:		Received by:		Received by:			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

May 23, 2024

Eric Maise, Project Manager
Aspect Consulting
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Maise:

Included are the results from the testing of material submitted on May 14, 2024 from the OWSI AS130046, F&BI 405236 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Aspect Data, Carmen Tappero
ASP0523R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 14, 2024 by Friedman & Bruya, Inc. from the Aspect Consulting OWSI AS130046, F&BI 405236 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting</u>
405236 -01	Well #18-240510
405236 -02	MW-1-240510
405236 -03	MW-2-240510
405236 -04	MW-X-240510
405236 -05	EB-240510
405236 -06	Trip Blank

Samples MW-1-240510 and MW-2-240510 were sent to Alliance for sulfate, nitrate, nitrite, alkalinity, and RSK-175 analyses. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/24
 Date Received: 05/14/24
 Project: OWSI AS130046, F&BI 405236
 Date Extracted: 05/16/24
 Date Analyzed: 05/16/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
Well #18-240510 405236-01	<1	2.1	<1	<3	<100	89
MW-1-240510 405236-02 1/10	84	53	250	50	3,000	96
MW-2-240510 405236-03 1/10	38	21	96	<30	1,200	91
MW-X-240510 405236-04 1/10	93	52	240	49	3,000	95
EB-240510 405236-05	<1	<1	<1	<3	<100	91
Trip Blank 405236-06	<1	<1	<1	<3	<100	93
Method Blank 04-895 MB	<1	<1	<1	<3	<100	91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-1-240510	Client:	Aspect Consulting
Date Received:	05/14/24	Project:	OWSI AS130046, F&BI 405236
Date Extracted:	05/15/24	Lab ID:	405236-02
Date Analyzed:	05/16/24	Data File:	405236-02.257
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Manganese	710
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-2-240510	Client:	Aspect Consulting
Date Received:	05/14/24	Project:	OWSI AS130046, F&BI 405236
Date Extracted:	05/15/24	Lab ID:	405236-03
Date Analyzed:	05/16/24	Data File:	405236-03.263
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Manganese	270
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Aspect Consulting
Date Received:	NA	Project:	OWSI AS130046, F&BI 405236
Date Extracted:	05/15/24	Lab ID:	I4-397 mb
Date Analyzed:	05/15/24	Data File:	I4-397 mb.130
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/24

Date Received: 05/14/24

Project: OWSI AS130046, F&BI 405236

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 405236-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	2.1	2.1	0
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	98	70-130
Toluene	ug/L (ppb)	50	94	70-130
Ethylbenzene	ug/L (ppb)	50	98	70-130
Xylenes	ug/L (ppb)	150	87	70-130
Gasoline	ug/L (ppb)	1,000	91	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/24

Date Received: 05/14/24

Project: OWSI AS130046, F&BI 405236

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

Laboratory Code: 405241-03 x10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Manganese	ug/L (ppb)	20	2,060	532 b	1040 b	75-125	65 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Manganese	ug/L (ppb)	20	97	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, 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.

Carmen Toppers Aspect Consulting CoM

405236

Report To Eric Maize to Carmen Toppers

Company Aspect

Address

City, State, ZIP

Phone Email Eric. Maize@aspectconsulting.com

SAMPLE CHAIN OF CUSTODY

05/14/24

K2/VW2

SAMPLERS (signature) *[Signature]*

PROJECT NAME

OWDS1

PO #

AS130046

REMARKS

INVOICE TO

Project specific RIs? - Yes / No

Page # 1 of 1

TURNAROUND TIME

Standard turnaround

RUSH charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes					
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Sulfates	Nitrate/Nitrite	dissolved CH4		Diss. Mn				
Well #18-240510	01A-F	5/10/24	0835	W	3	X	X	X													
MW-1-240510	02A-I		1230		9	X	X	X				X	X	X	X	X	X				
MW-2-240510	03 ↓		1125		3	X	X	X				X	X	X	X	X	X				
MW-X-240510	04A-C		0700		3	X	X	X													
EB-240510	05 ↓		0900		3	X	X	X													
Trip Blank	06A-B		-	W	2	X	X	X													

Samples received at 2°C

SIGNATURE

Relinquished by: *[Signature]*

Received by: *[Signature]*

PRINT NAME

Carmen Toppers

ANH PH AN

COMPANY

Aspect

F8B

DATE

5/13/24

05/14/24

TIME

1330

08:51

Friedman & Bruya, Inc.

Ph. (306) 285-8282

Received by:

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 405236 CLIENT ASP

INITIALS/ AP
DATE: 05/14/24

If custody seals are present on cooler, are they intact? NA YES NO

Cooler/Sample temperature 2 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? YES NO

How did samples arrive?
 Over the Counter Picked up by F&BI FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? YES NO
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 4 days

Are the samples clearly identified? (explain "no" answer below) YES NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) YES NO

Were appropriate sample containers used? YES NO Unknown

If custody seals are present on samples, are they intact? NA YES NO

Are samples requiring no headspace, headspace free? NA YES NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

- Sample ID's Yes No _____
- Date Sampled Yes No _____ Not on COC/label
- Time Sampled Yes No _____ Not on COC/label
- # of Containers Yes No Received 6 samples at lab for ID-01 Not on COC/label
- Relinquished Yes No _____
- Requested analysis Yes On Hold _____

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? NA YES NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

ORIGIN ID:BFIA (561) 995-0
KIM PEABODY
GEOSYNTEC CONSULTANTS
710 2ND AVENUE
SUITE 550
SEATTLE, WA 98104
UNITED STATES US

DATE: 13MAY24
TWGT: 40.00 LB
CAD: 259316664/INET4535
DIMS: 24x14x12 IN
BILL SENDER

TO **FRIEDMAN & BRUYEA**
FRIEDMAN & BRUYEA
5500 4TH AVE S

SEATTLE WA 98108

(206) 838-6591
INV: 025
PO: 002

REF: AS130046A

DEPT: 3730-0137



FedEx
Express



J2430240335611w

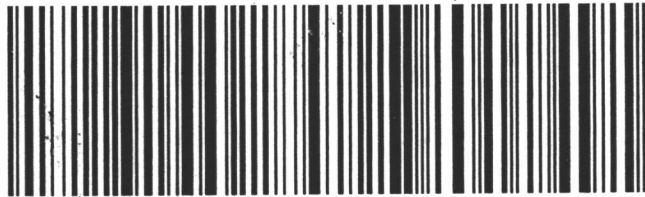
TUE - 14 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 7763 6259 0892
0201

85 BFIA

98108

WA-US SEA



SHORT HOLD TIME!

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

RE: 405236, E-196
Work Order Number: 2405260

May 22, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 2 sample(s) on 5/14/2024 for the analyses presented in the following report.

Dissolved Gases by RSK-175
Ion Chromatography by EPA 300.0
Total Alkalinity by SM 2320B

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

Original





Date: 05/22/2024

CLIENT: Friedman & Bruya
Project: 405236
Work Order: 2405260

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2405260-001	MW-1-240510	05/10/2024 12:30 PM	05/14/2024 2:47 PM
2405260-002	MW-2-240510	05/10/2024 11:25 AM	05/14/2024 2:47 PM

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

Original

CLIENT: Friedman & Bruya

Project: 405236

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:

- * - 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

CLIENT: Friedman & Bruya
Project: 405236

Lab ID: 2405260-001

Collection Date: 5/10/2024 12:30:00 PM

Client Sample ID: MW-1-240510

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>					Batch ID: R91875	Analyst: CO
Methane	0.0652	0.00500		mg/L	1	5/20/2024 4:49:00 PM
Ethene	ND	0.0100		mg/L	1	5/20/2024 4:49:00 PM
Ethane	ND	0.0100		mg/L	1	5/20/2024 4:49:00 PM
<u>Ion Chromatography by EPA 300.0</u>					Batch ID: 43920	Analyst: FG
Nitrate (as N)+Nitrite (as N)	ND	0.400		mg/L	1	5/16/2024 3:27:00 AM
Sulfate	ND	1.00		mg/L	1	5/16/2024 3:27:00 AM
<u>Total Alkalinity by SM 2320B</u>					Batch ID: R91787	Analyst: NR
Alkalinity, Total (As CaCO3)	267	2.50		mg/L	1	5/16/2024 4:50:02 PM

Lab ID: 2405260-002

Collection Date: 5/10/2024 11:25:00 AM

Client Sample ID: MW-2-240510

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>					Batch ID: R91875	Analyst: CO
Methane	ND	0.00500		mg/L	1	5/20/2024 5:13:00 PM
Ethene	ND	0.0100		mg/L	1	5/20/2024 5:13:00 PM
Ethane	ND	0.0100		mg/L	1	5/20/2024 5:13:00 PM
<u>Ion Chromatography by EPA 300.0</u>					Batch ID: 43920	Analyst: FG
Nitrate (as N)+Nitrite (as N)	ND	0.400		mg/L	1	5/16/2024 4:36:00 AM
Sulfate	13.3	1.00		mg/L	1	5/20/2024 8:27:00 PM
<u>Total Alkalinity by SM 2320B</u>					Batch ID: R91787	Analyst: NR
Alkalinity, Total (As CaCO3)	313	2.50		mg/L	1	5/16/2024 4:50:02 PM

Work Order: 2405260
CLIENT: Friedman & Bruya
Project: 405236

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

Sample ID: MB-R91787	SampType: MBLK	Units: mg/L	Prep Date: 5/16/2024	RunNo: 91787							
Client ID: MBLKW	Batch ID: R91787	Analysis Date: 5/16/2024	SeqNo: 1914978								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	2.50									

Sample ID: LCS-R91787	SampType: LCS	Units: mg/L	Prep Date: 5/16/2024	RunNo: 91787							
Client ID: LCSW	Batch ID: R91787	Analysis Date: 5/16/2024	SeqNo: 1914979								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	106	2.50	100.0	0	106	89.7	129.7				

Sample ID: 2405207-001ADUP	SampType: DUP	Units: mg/L	Prep Date: 5/16/2024	RunNo: 91787							
Client ID: BATCH	Batch ID: R91787	Analysis Date: 5/16/2024	SeqNo: 1914981								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	112	2.50						112.9	1.07	20	

Work Order: 2405260
 CLIENT: Friedman & Bruya
 Project: 405236

QC SUMMARY REPORT
Ion Chromatography by EPA 300.0

Sample ID: LCS-43920	SampType: LCS	Units: mg/L				Prep Date: 5/15/2024	RunNo: 91753				
Client ID: LCSW	Batch ID: 43920					Analysis Date: 5/15/2024	SeqNo: 1913864				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)+Nitrite (as N)	1.43	0.400	1.500	0	95.3	90	110				
Sulfate	3.55	1.00	3.750	0	94.7	90	110				

Sample ID: MB-43920	SampType: MBLK	Units: mg/L				Prep Date: 5/15/2024	RunNo: 91753				
Client ID: MBLKW	Batch ID: 43920					Analysis Date: 5/15/2024	SeqNo: 1913866				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)+Nitrite (as N)	ND	0.400									
Sulfate	ND	1.00									

Sample ID: 2405239-001BDUP	SampType: DUP	Units: mg/L				Prep Date: 5/15/2024	RunNo: 91753				
Client ID: BATCH	Batch ID: 43920					Analysis Date: 5/16/2024	SeqNo: 1913894				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)+Nitrite (as N)	ND	0.400						0		20	
Sulfate	22.3	1.00						22.20	0.274	20	

Sample ID: 2405239-001BMS	SampType: MS	Units: mg/L				Prep Date: 5/15/2024	RunNo: 91753				
Client ID: BATCH	Batch ID: 43920					Analysis Date: 5/16/2024	SeqNo: 1913895				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)+Nitrite (as N)	1.15	0.400	1.500	0	76.7	80	120				S
Sulfate	25.6	1.00	3.750	22.20	89.4	80	120				

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID: 2405239-001BMSD	SampType: MSD	Units: mg/L				Prep Date: 5/15/2024	RunNo: 91753				
Client ID: BATCH	Batch ID: 43920					Analysis Date: 5/16/2024	SeqNo: 1913896				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)+Nitrite (as N)	1.08	0.400	1.500	0	71.9	80	120	1.151	6.55	20	S

Work Order: 2405260
 CLIENT: Friedman & Bruya
 Project: 405236

QC SUMMARY REPORT
Ion Chromatography by EPA 300.0

Sample ID: 2405239-001BMSD	SampType: MSD	Units: mg/L				Prep Date: 5/15/2024	RunNo: 91753				
Client ID: BATCH	Batch ID: 43920					Analysis Date: 5/16/2024	SeqNo: 1913896				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	25.6	1.00	3.750	22.20	91.1	80	120	25.55	0.246	20	

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID: LCS-43971	SampType: LCS	Units: mg/L				Prep Date: 5/20/2024	RunNo: 91835				
Client ID: LCSW	Batch ID: 43971					Analysis Date: 5/20/2024	SeqNo: 1915956				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)+Nitrite (as N)	1.45	0.400	1.500	0	96.5	90	110				
Sulfate	3.60	1.00	3.750	0	96.1	90	110				

Sample ID: MB-43971	SampType: MBLK	Units: mg/L				Prep Date: 5/20/2024	RunNo: 91835				
Client ID: MBLKW	Batch ID: 43971					Analysis Date: 5/20/2024	SeqNo: 1915958				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)+Nitrite (as N)	ND	0.400									
Sulfate	ND	1.00									

Sample ID: 2405335-001ADUP	SampType: DUP	Units: mg/L				Prep Date: 5/20/2024	RunNo: 91835				
Client ID: BATCH	Batch ID: 43971					Analysis Date: 5/21/2024	SeqNo: 1916592				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)+Nitrite (as N)	ND	0.400						0		20	
Sulfate	20.0	1.00						19.88	0.577	20	

Sample ID: 2405335-001AMS	SampType: MS	Units: mg/L				Prep Date: 5/20/2024	RunNo: 91835				
Client ID: BATCH	Batch ID: 43971					Analysis Date: 5/21/2024	SeqNo: 1916593				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)+Nitrite (as N)	1.47	0.400	1.500	0	98.0	80	120				
Sulfate	23.4	1.00	3.750	19.88	94.4	80	120				

Work Order: 2405260
 CLIENT: Friedman & Bruya
 Project: 405236

QC SUMMARY REPORT
Ion Chromatography by EPA 300.0

Sample ID: 2405335-001AMS	SampType: MS	Units: mg/L			Prep Date: 5/20/2024	RunNo: 91835
Client ID: BATCH	Batch ID: 43971				Analysis Date: 5/21/2024	SeqNo: 1916593
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: 2405335-001AMSD	SampType: MSD	Units: mg/L			Prep Date: 5/20/2024	RunNo: 91835
Client ID: BATCH	Batch ID: 43971				Analysis Date: 5/21/2024	SeqNo: 1916594
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Nitrate (as N)+Nitrite (as N)	1.46	0.400	1.500	0	97.1	80 120 1.470 0.957 20
Sulfate	23.4	1.00	3.750	19.88	94.3	80 120 23.42 0.0171 20

Sample ID: 2405287-006ADUP	SampType: DUP	Units: mg/L			Prep Date: 5/20/2024	RunNo: 91835
Client ID: BATCH	Batch ID: 43971				Analysis Date: 5/21/2024	SeqNo: 1916598
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Nitrate (as N)+Nitrite (as N)	1.76	0.400				1.843 4.61 20
Sulfate	9.66	1.00				10.08 4.27 20

Sample ID: 2405287-006AMS	SampType: MS	Units: mg/L			Prep Date: 5/20/2024	RunNo: 91835
Client ID: BATCH	Batch ID: 43971				Analysis Date: 5/21/2024	SeqNo: 1916599
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Nitrate (as N)+Nitrite (as N)	3.28	0.400	1.500	1.843	95.9	80 120
Sulfate	13.6	1.00	3.750	10.08	94.4	80 120

Work Order: 2405260
 CLIENT: Friedman & Bruya
 Project: 405236

QC SUMMARY REPORT
Dissolved Gases by RSK-175

Sample ID: LCS-R91875	SampType: LCS	Units: ppmv			Prep Date: 5/20/2024	RunNo: 91875					
Client ID: LCSW	Batch ID: R91875				Analysis Date: 5/20/2024	SeqNo: 1916889					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	925	0.00500	1,000	0	92.5	73.6	124				
Ethene	890	0.0100	1,000	0	89.0	76.3	122				
Ethane	889	0.0100	1,000	0	88.9	76.1	123				

Sample ID: 2405260-001BREP	SampType: REP	Units: mg/L			Prep Date: 5/20/2024	RunNo: 91875					
Client ID: MW-1-240510	Batch ID: R91875				Analysis Date: 5/20/2024	SeqNo: 1916876					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	0.0676	0.00500						0.06523	3.56	30	
Ethene	ND	0.0100						0		30	
Ethane	ND	0.0100						0		30	

Sample ID: MB-R91875	SampType: MBLK	Units: mg/L			Prep Date: 5/20/2024	RunNo: 91875					
Client ID: MBLKW	Batch ID: R91875				Analysis Date: 5/20/2024	SeqNo: 1916886					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00500									
Ethene	ND	0.0100									
Ethane	ND	0.0100									

Client Name: FB	Work Order Number: 2405260
Logged by: Morgan Wilson	Date Received: 5/14/2024 2:47:00 PM

Chain of Custody

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

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	2.0

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

SUBCONTRACTOR	
Fremont	PO #
PROJECT NAME/NO.	E-196
405236	

REMARKS
Aspect EDD

TURNAROUND TIME
<input checked="" type="checkbox"/> Standard TAT
<input type="checkbox"/> RUSH
Rush charges authorized by:
SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

Send Report To Michael Erdahl
 Company Friedman and Bruya, Inc.
 Address 5500 4th Ave S
 City, State, ZIP Seattle, WA 98108
 Phone # (206) 285-8282 merdah@friedmanandbruya.com

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED				Notes
						Sulfate	Nitrate+Nitrite	RSK Methane	Alkalinity	
MMW-1-240510		5/10/2024	1230	water		x	x	x	x	
MMW-2-240510		5/10/2024	1125	water		x	x	x	x	

Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029 Ph. (206) 285-8282 Fax (206) 283-5044		SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>[Signature]</i>		Michael Erdahl	Friedman & Bruya	5/14/24	0909	
Received by: <i>[Signature]</i>		Michael - Grippson	ATG	5/14/24	14:47	
Relinquished by:						
Received by:						